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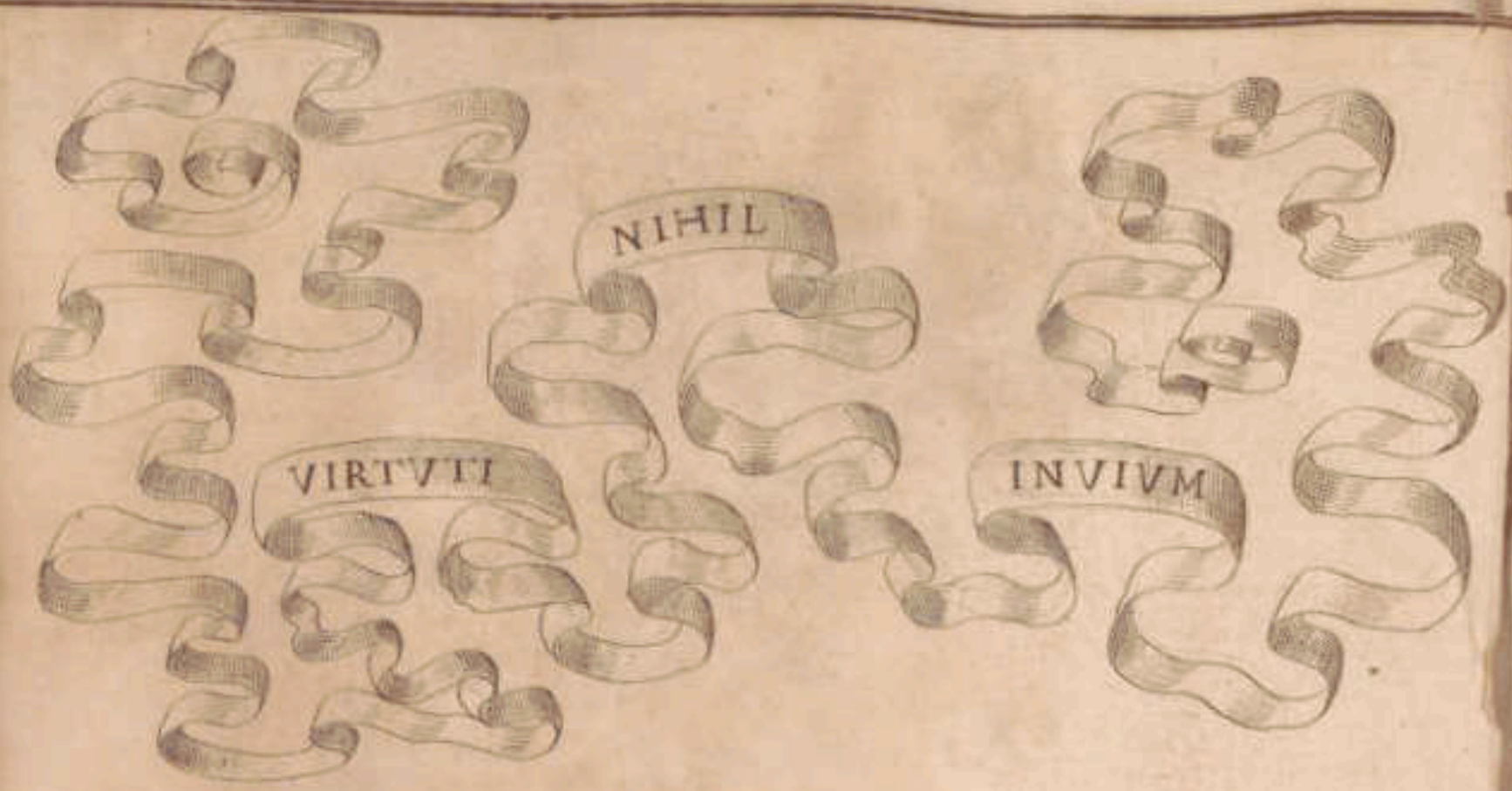
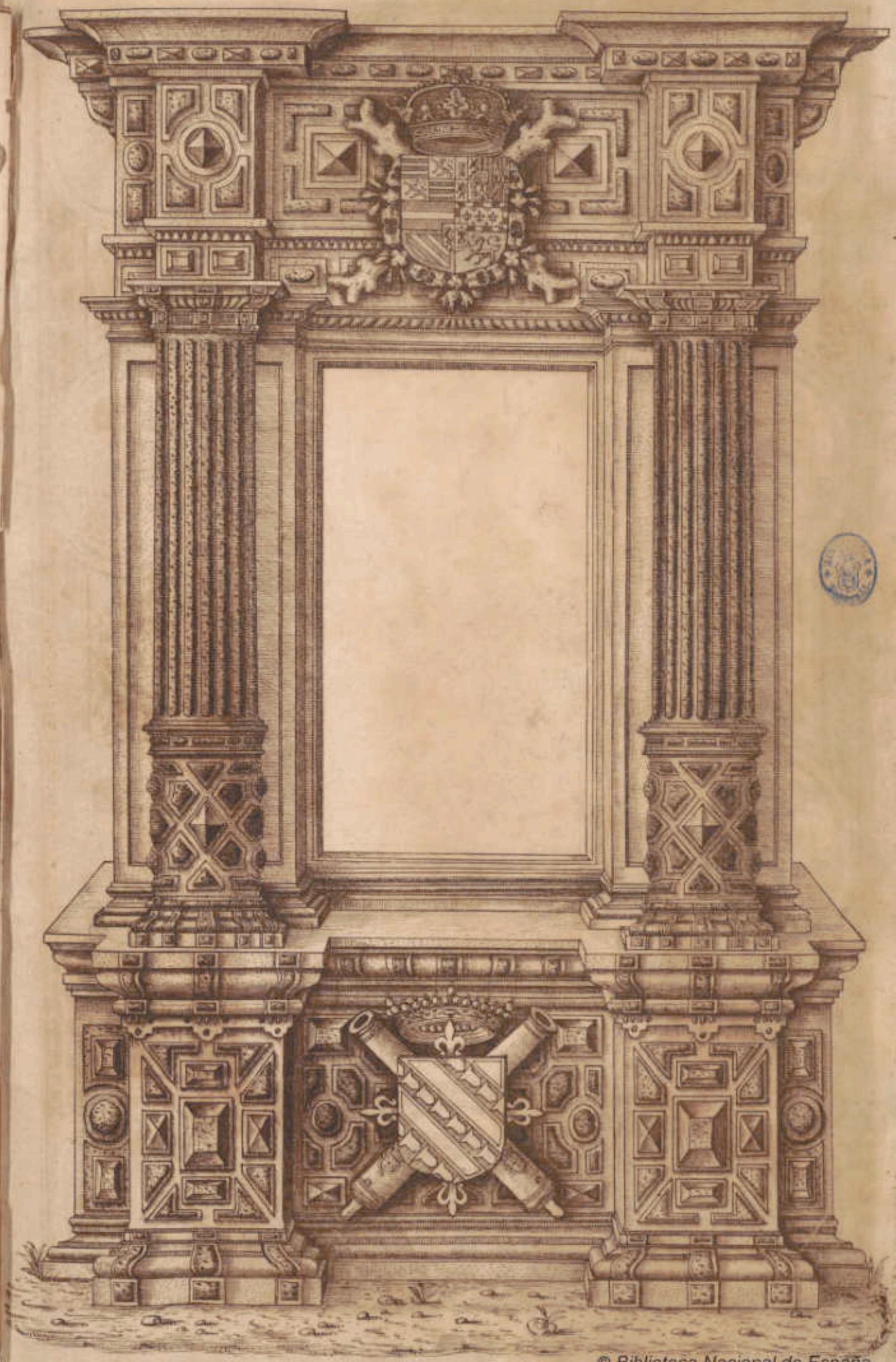


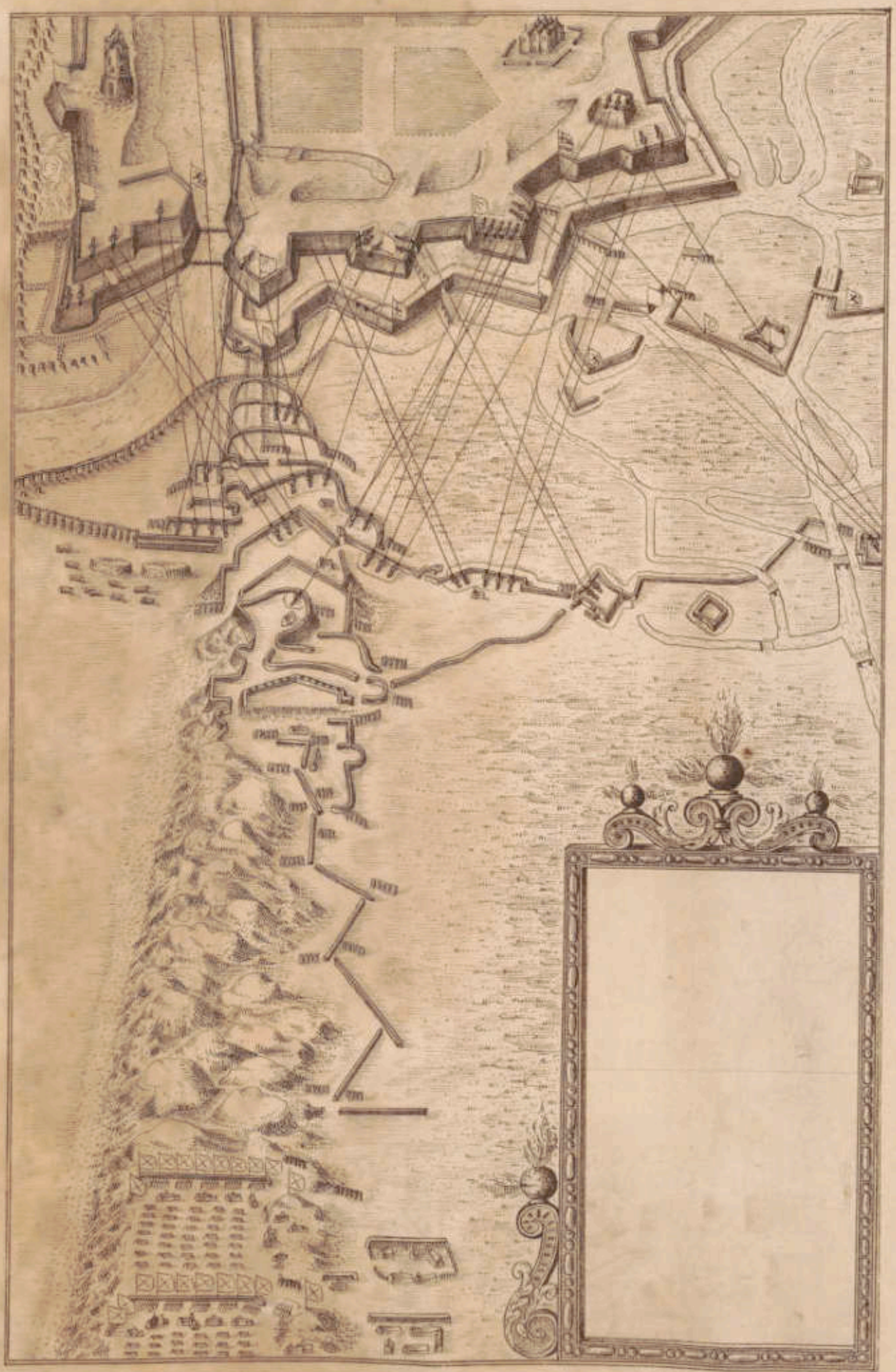


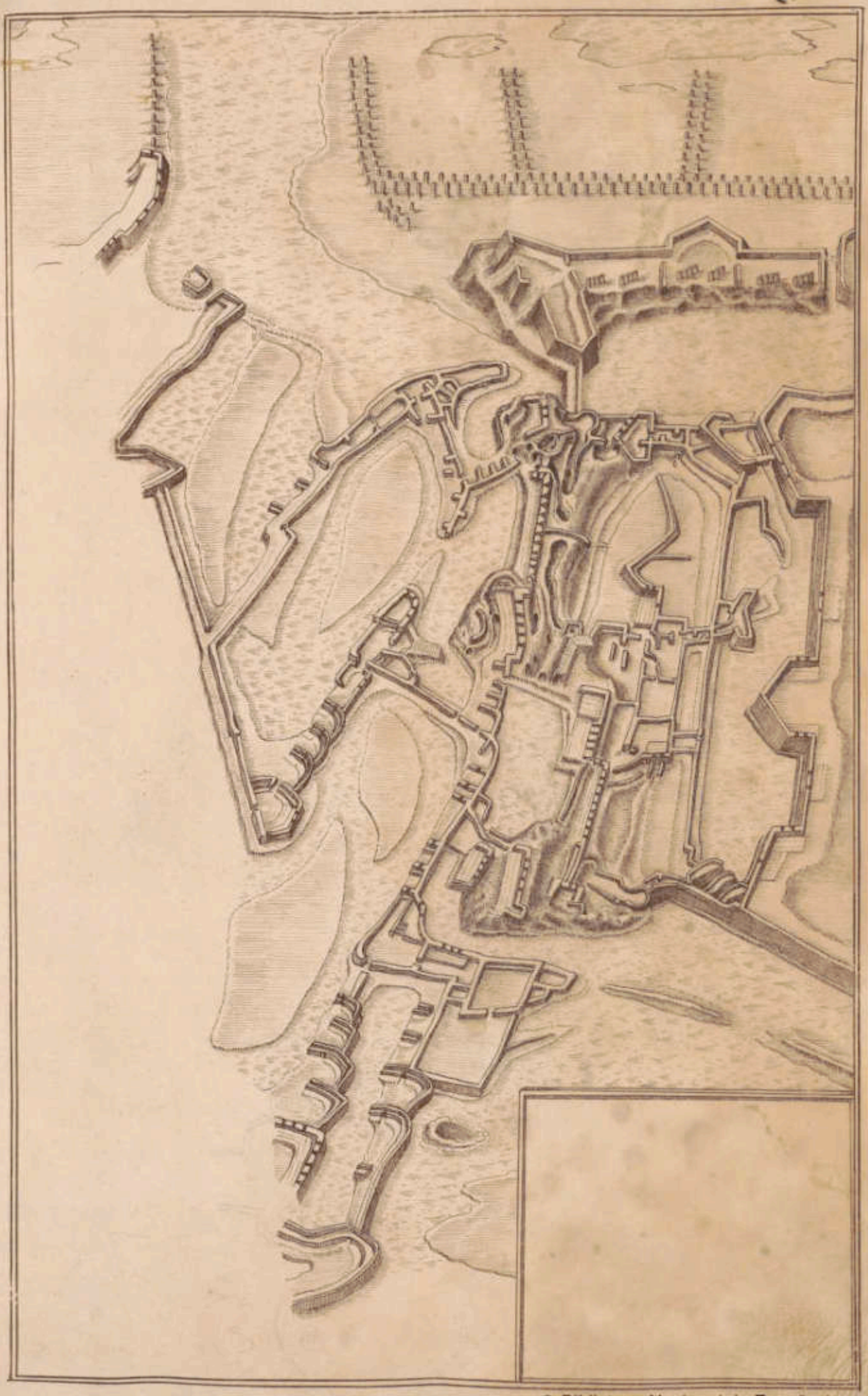
Feriunt Summos.

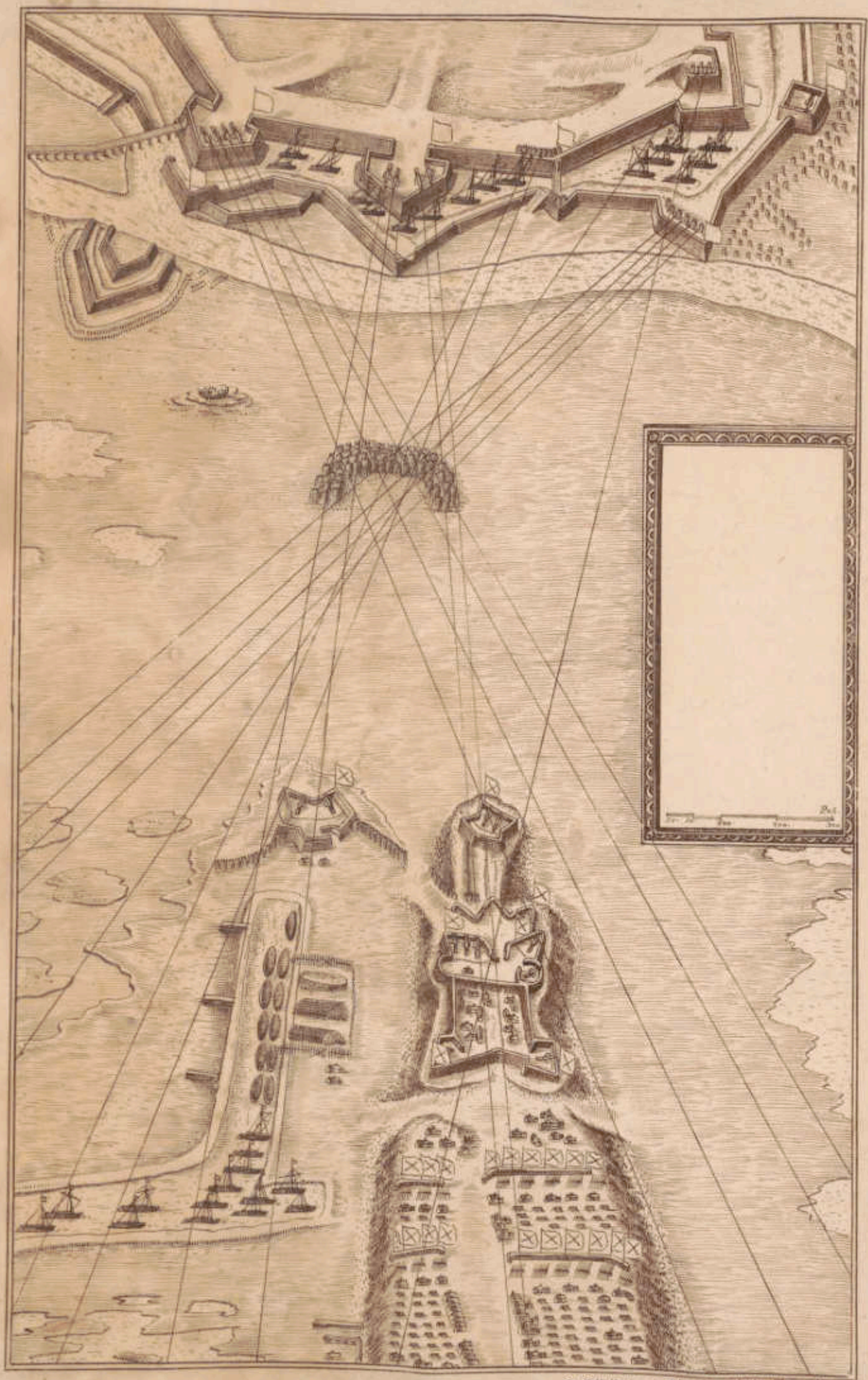
Virtus repulsæ nesqua sordida.

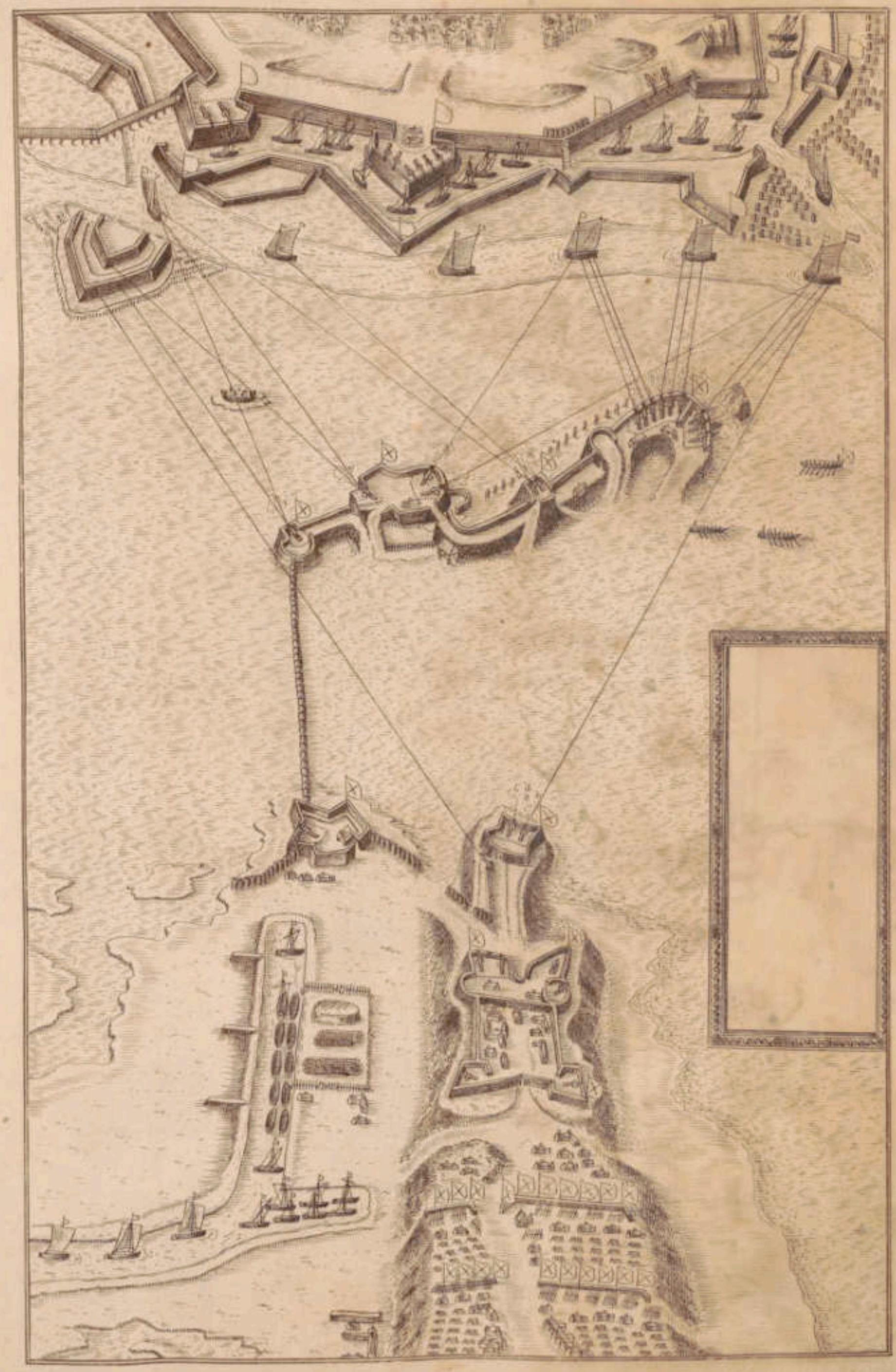
Intaminatis fulget honoribus.

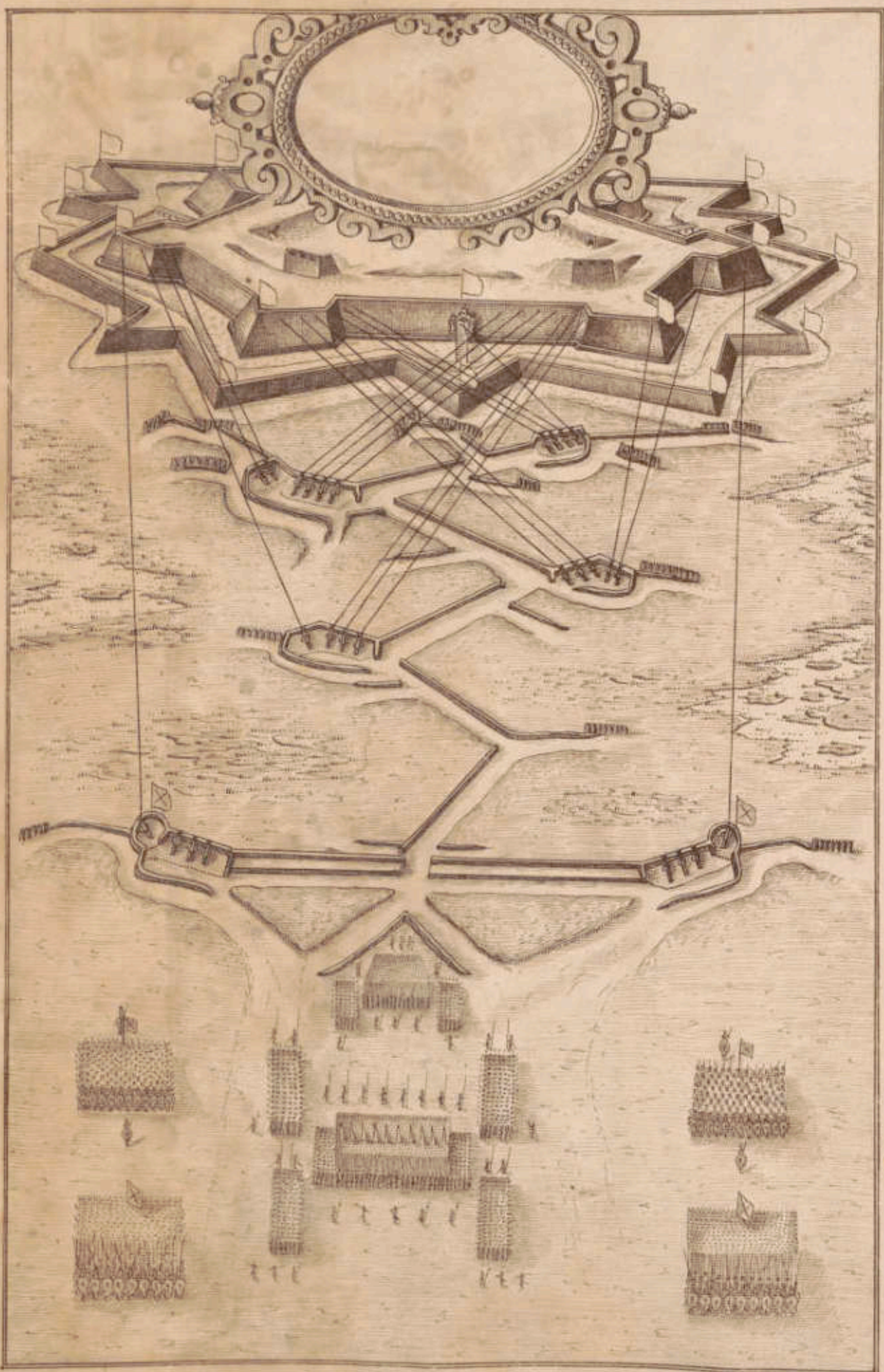
Obique Virtus Imperat.

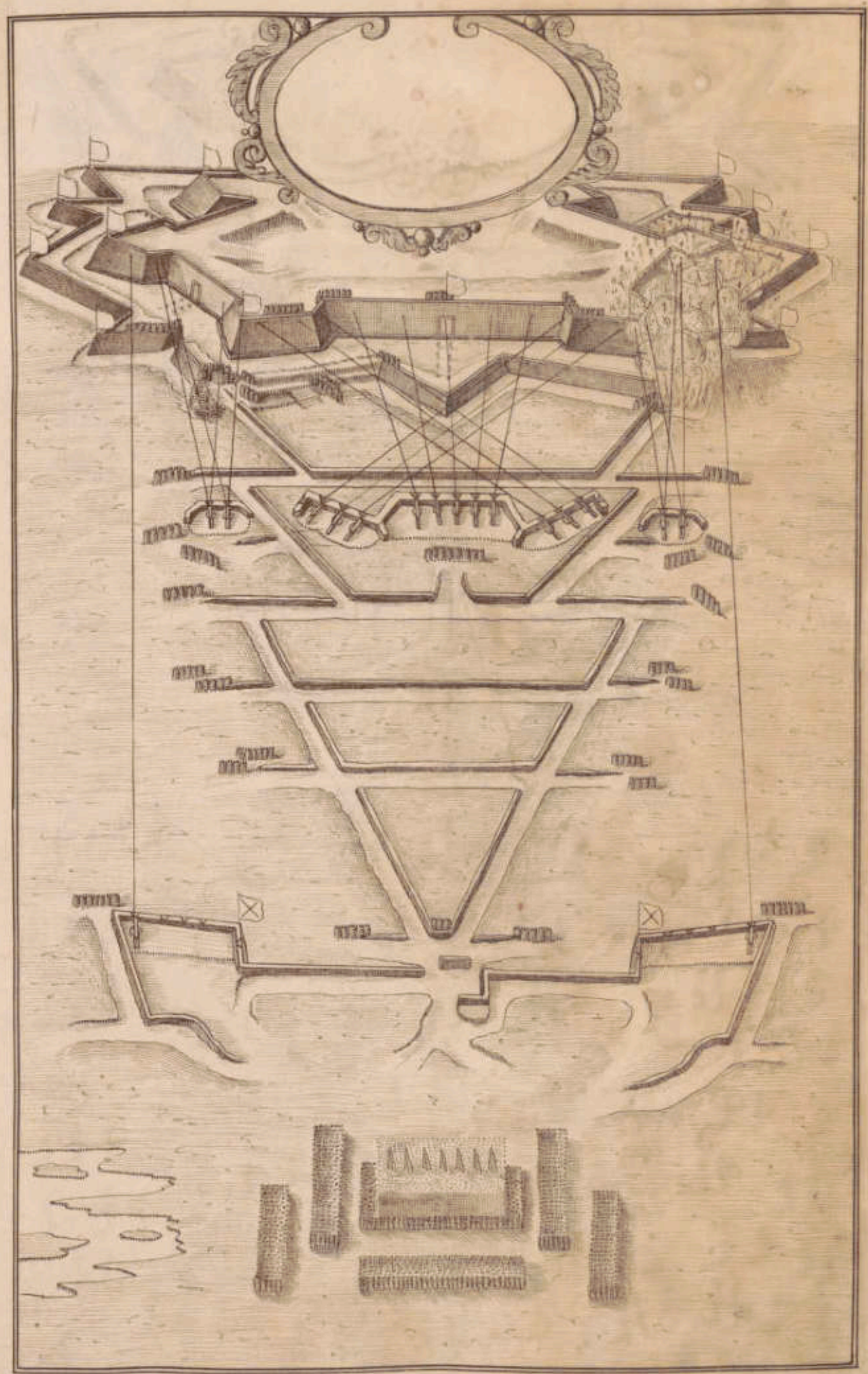


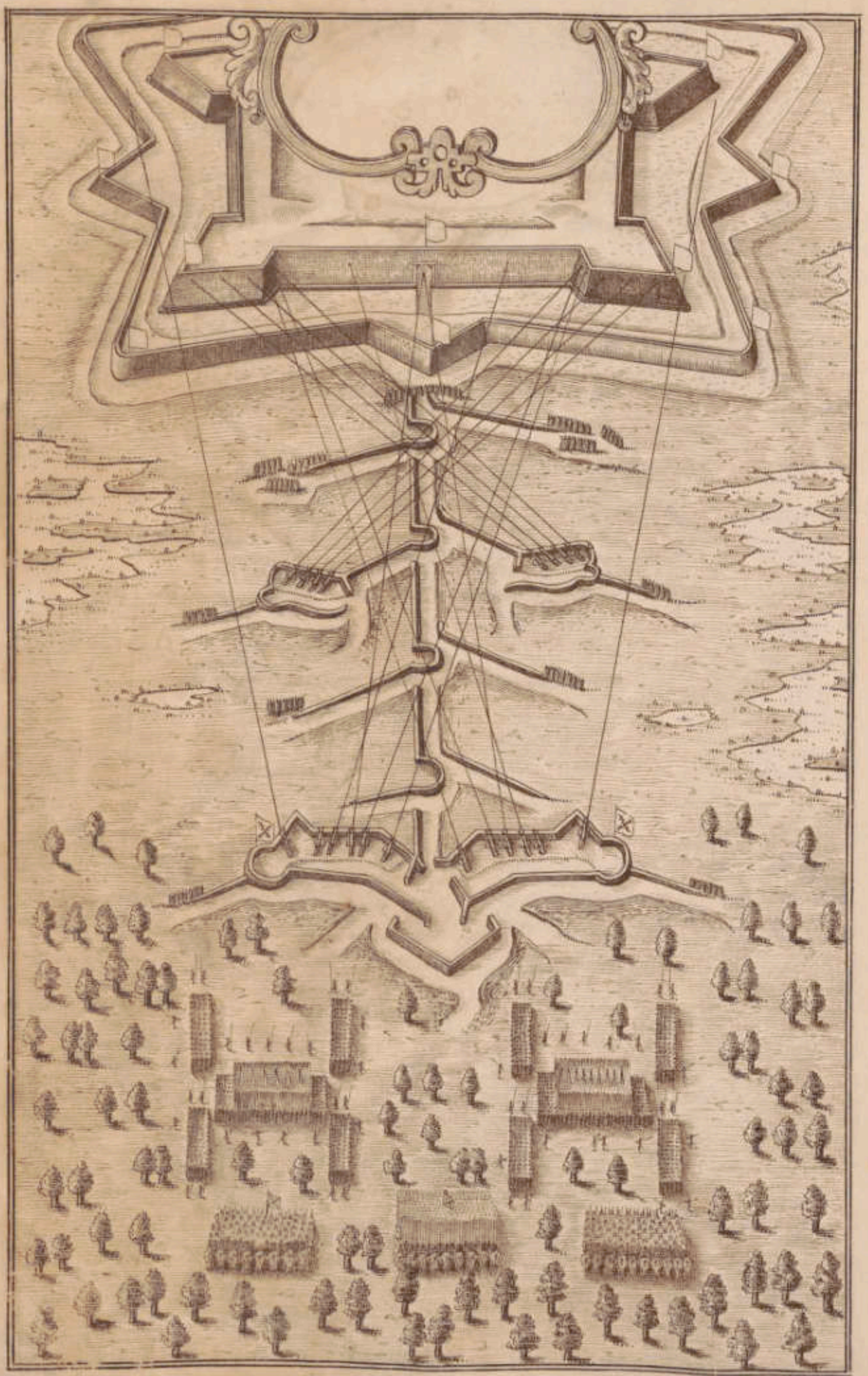


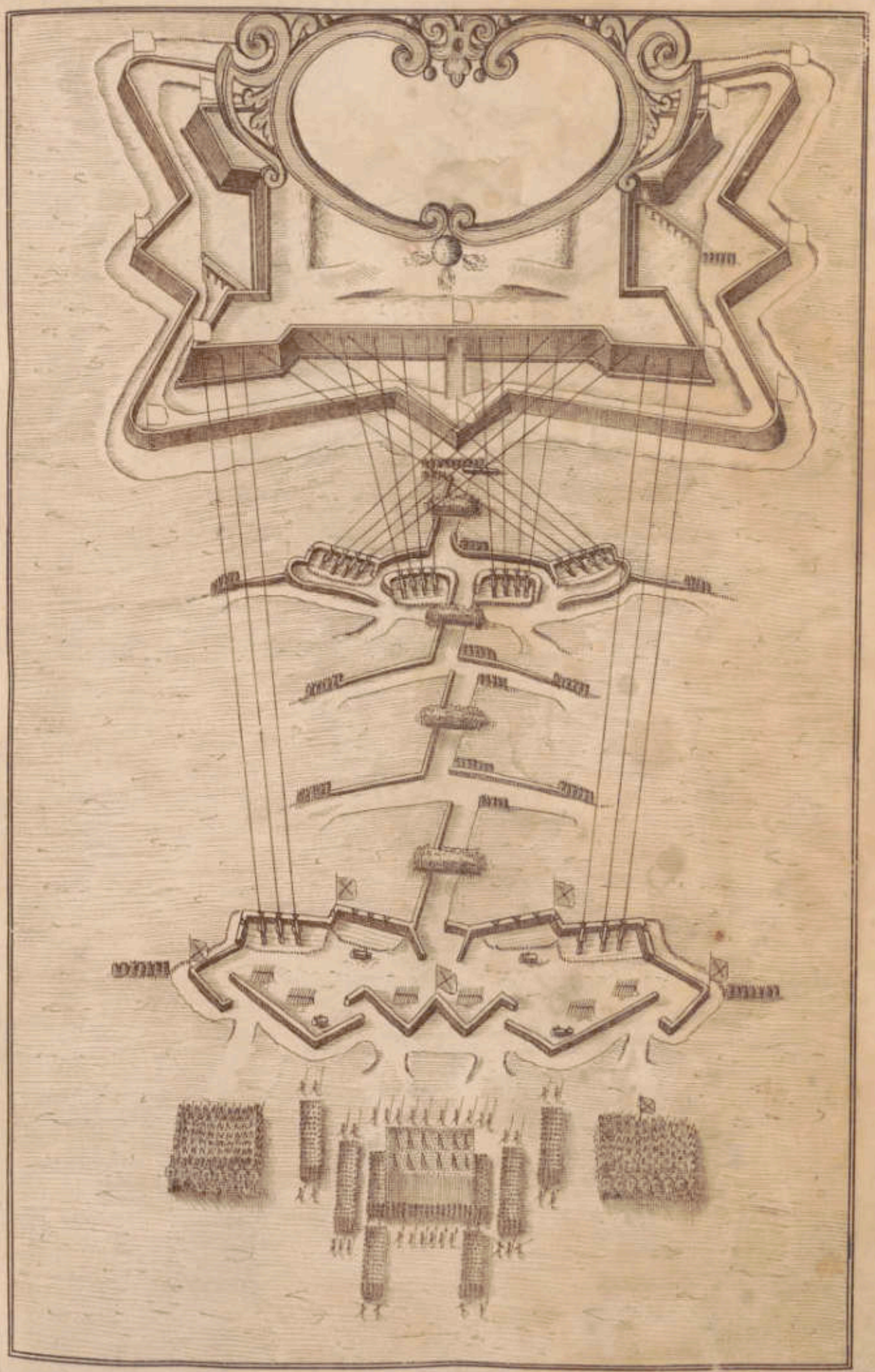


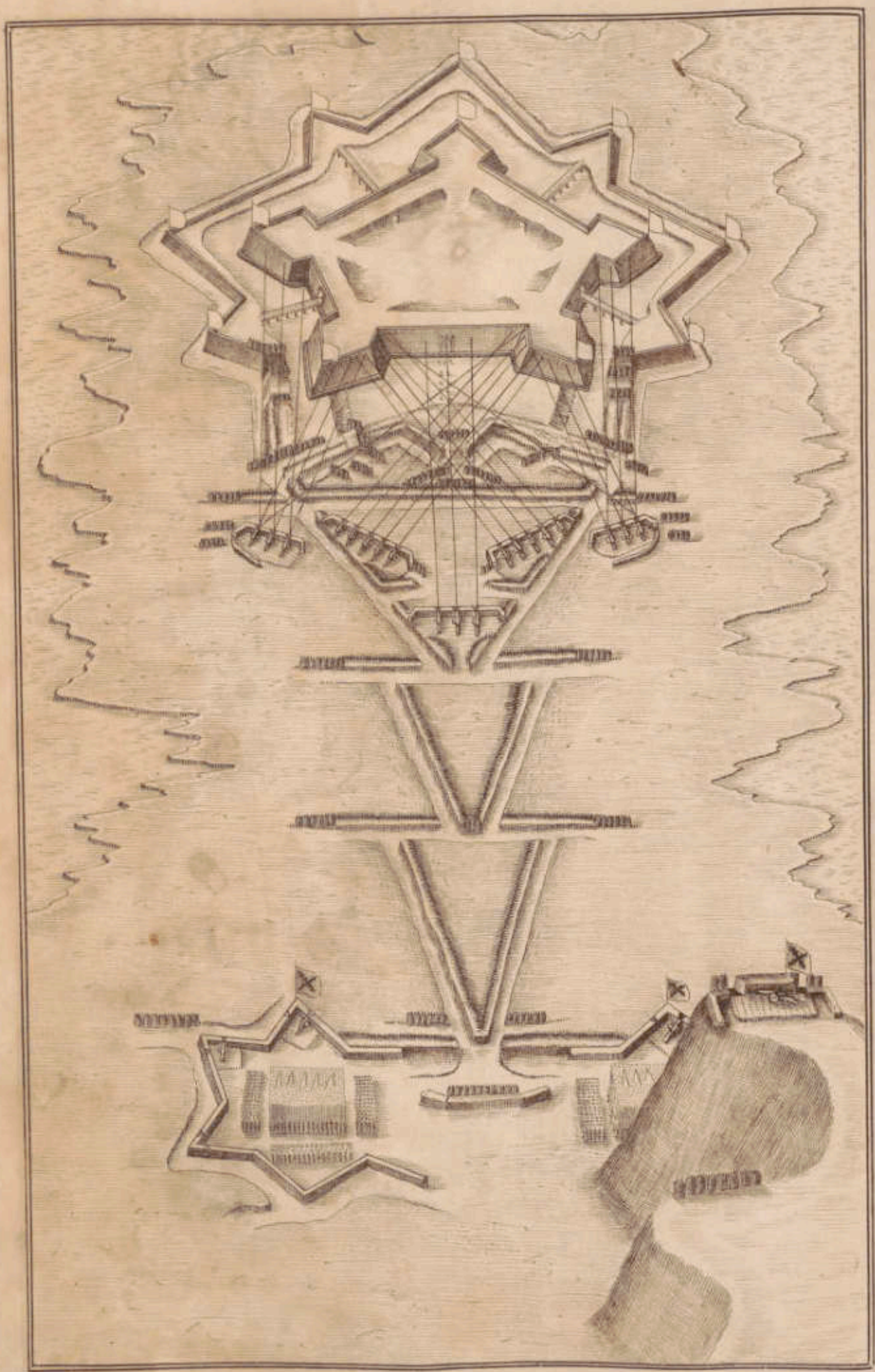


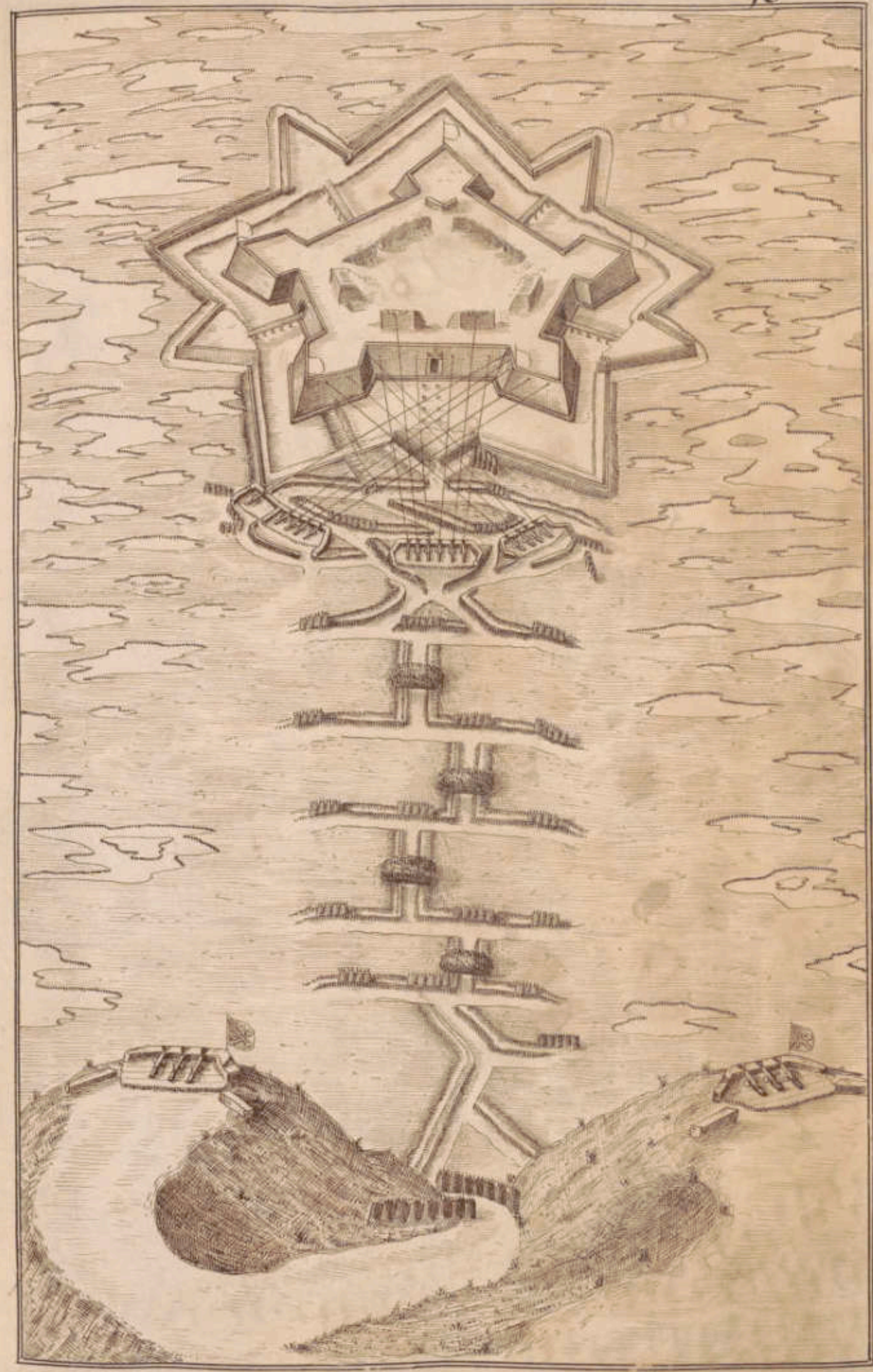


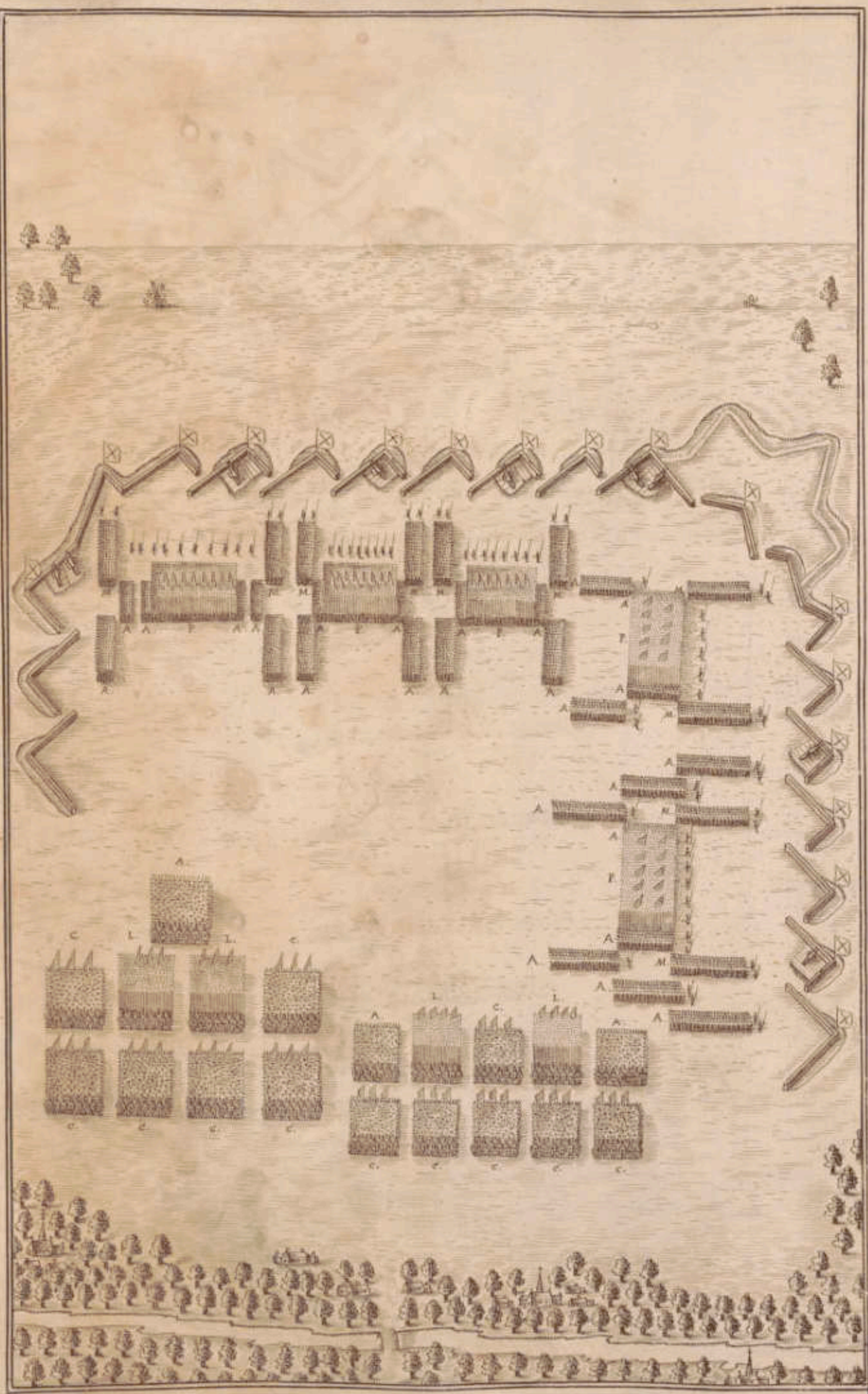


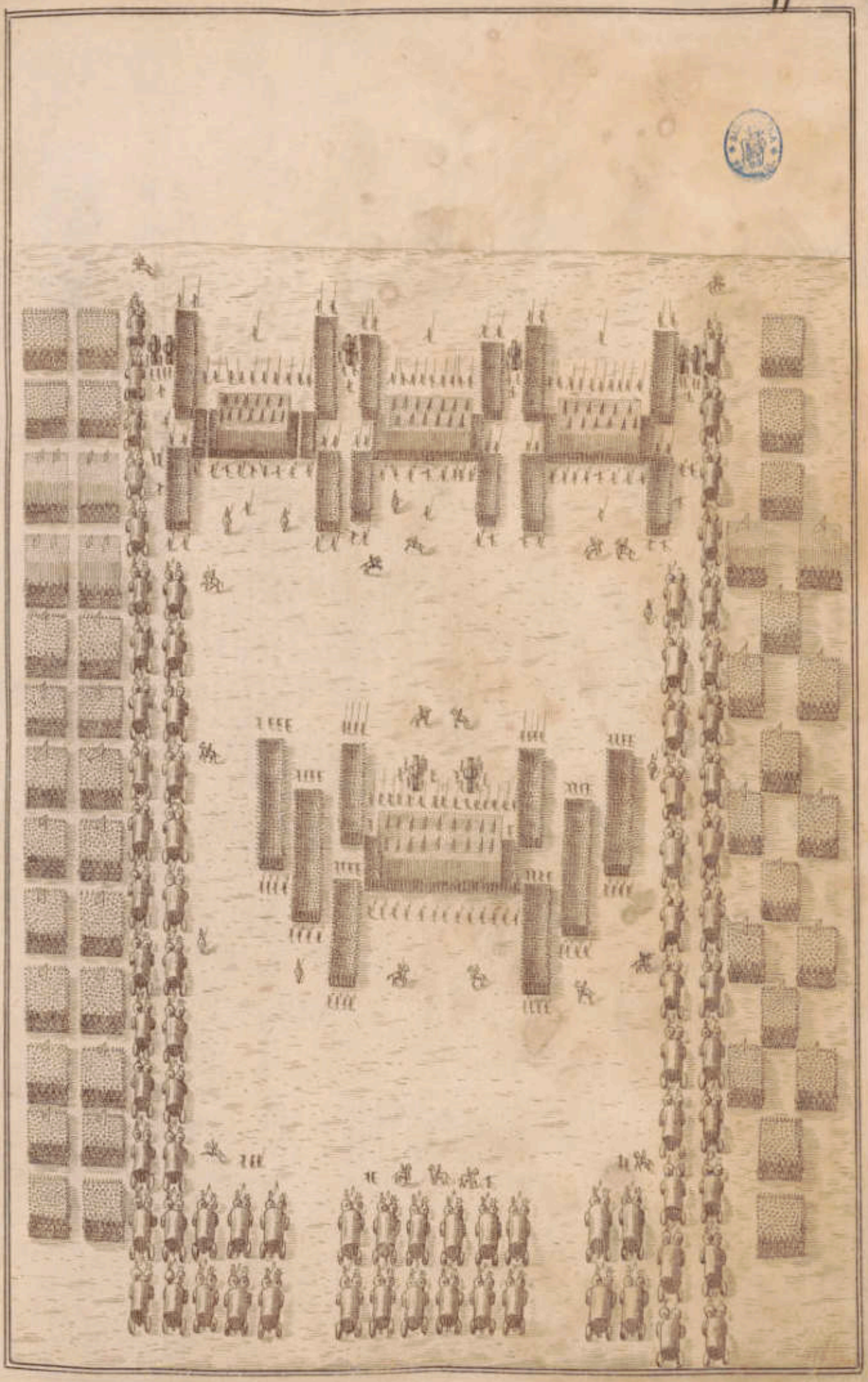


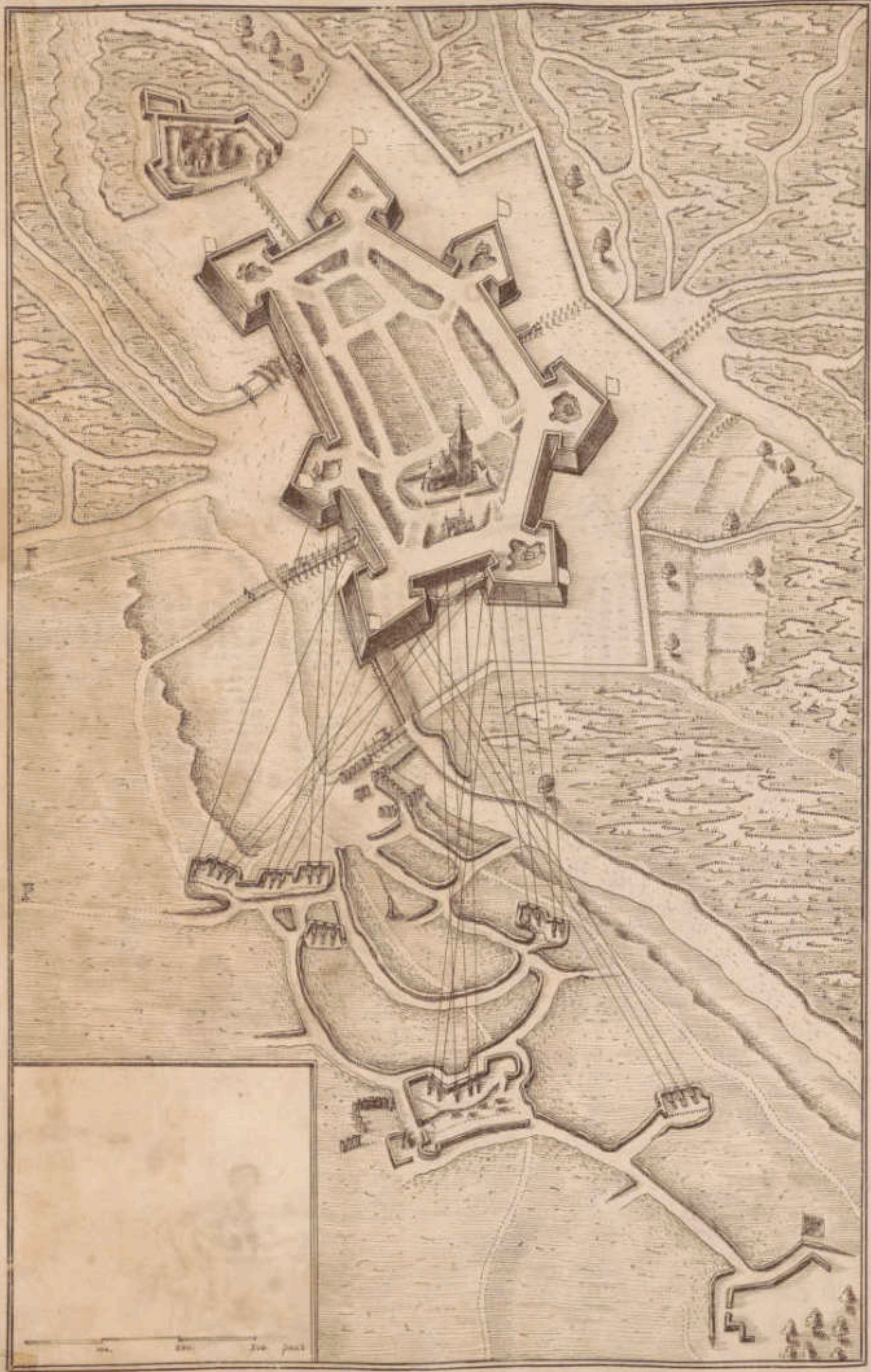


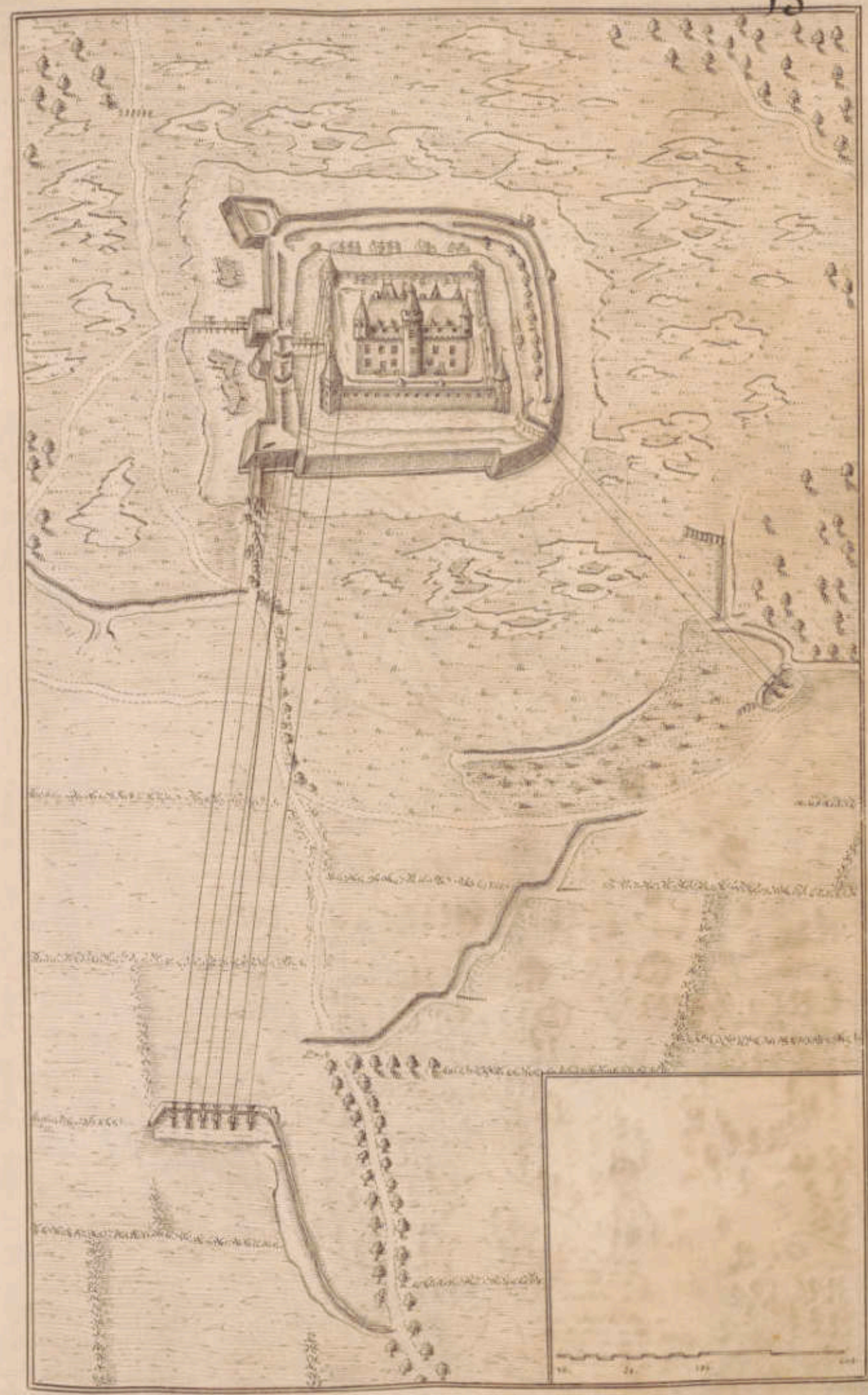


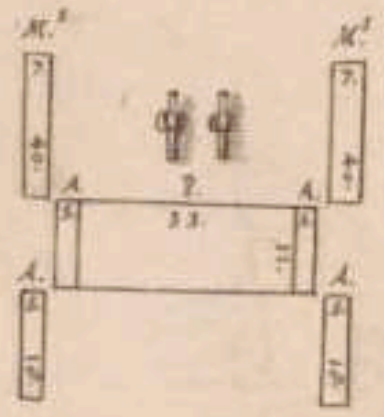


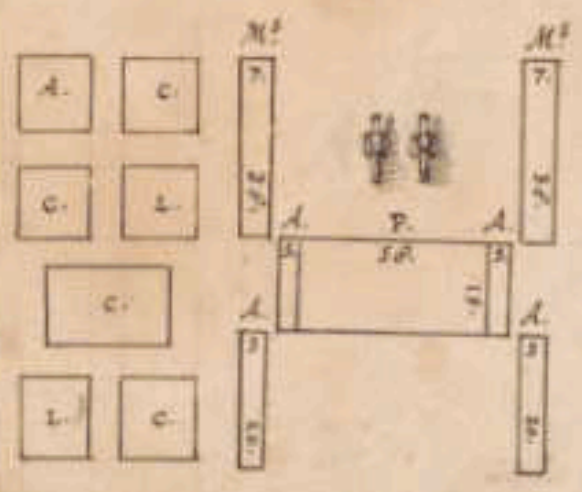


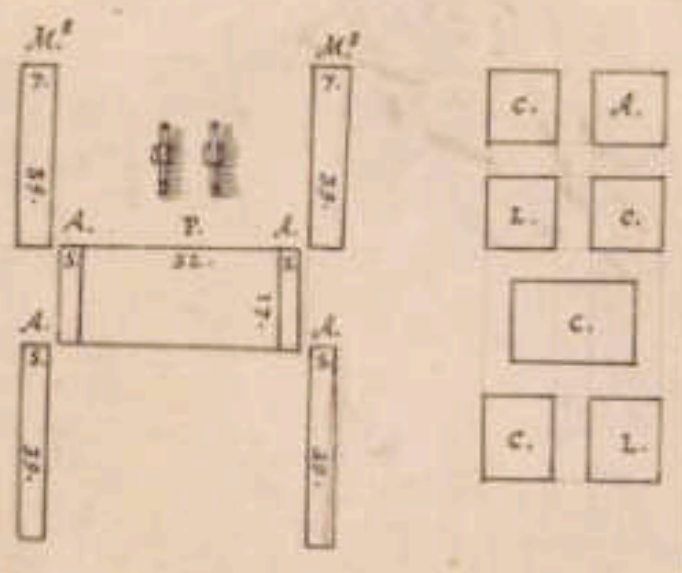


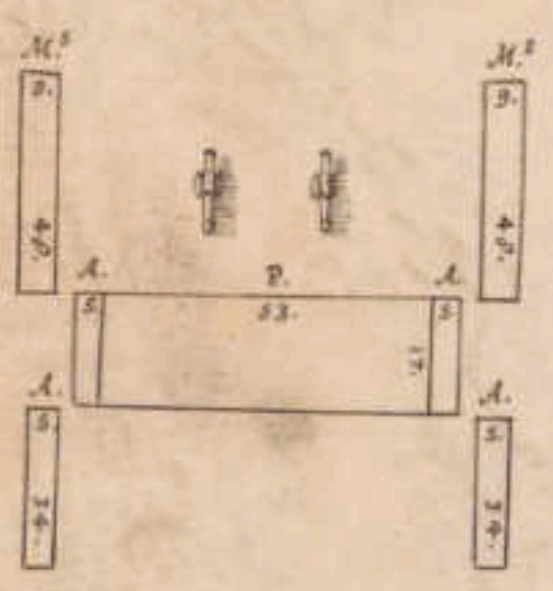


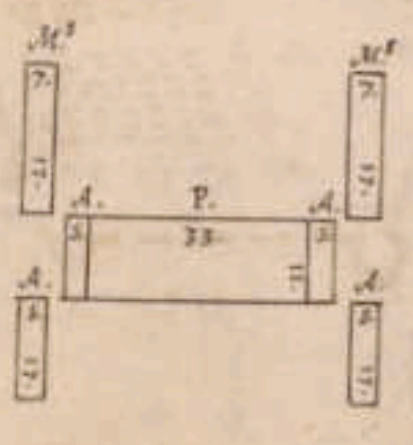


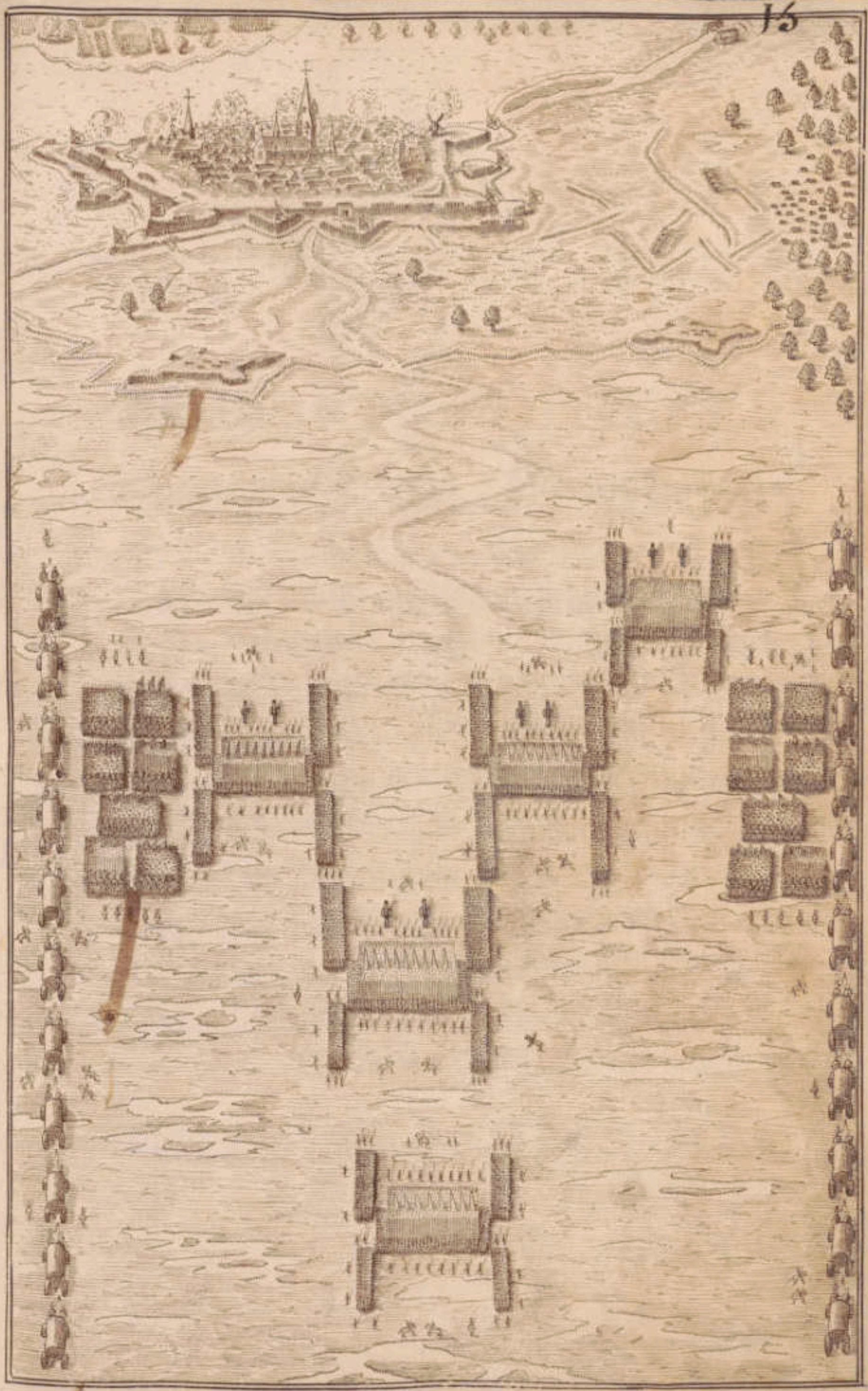


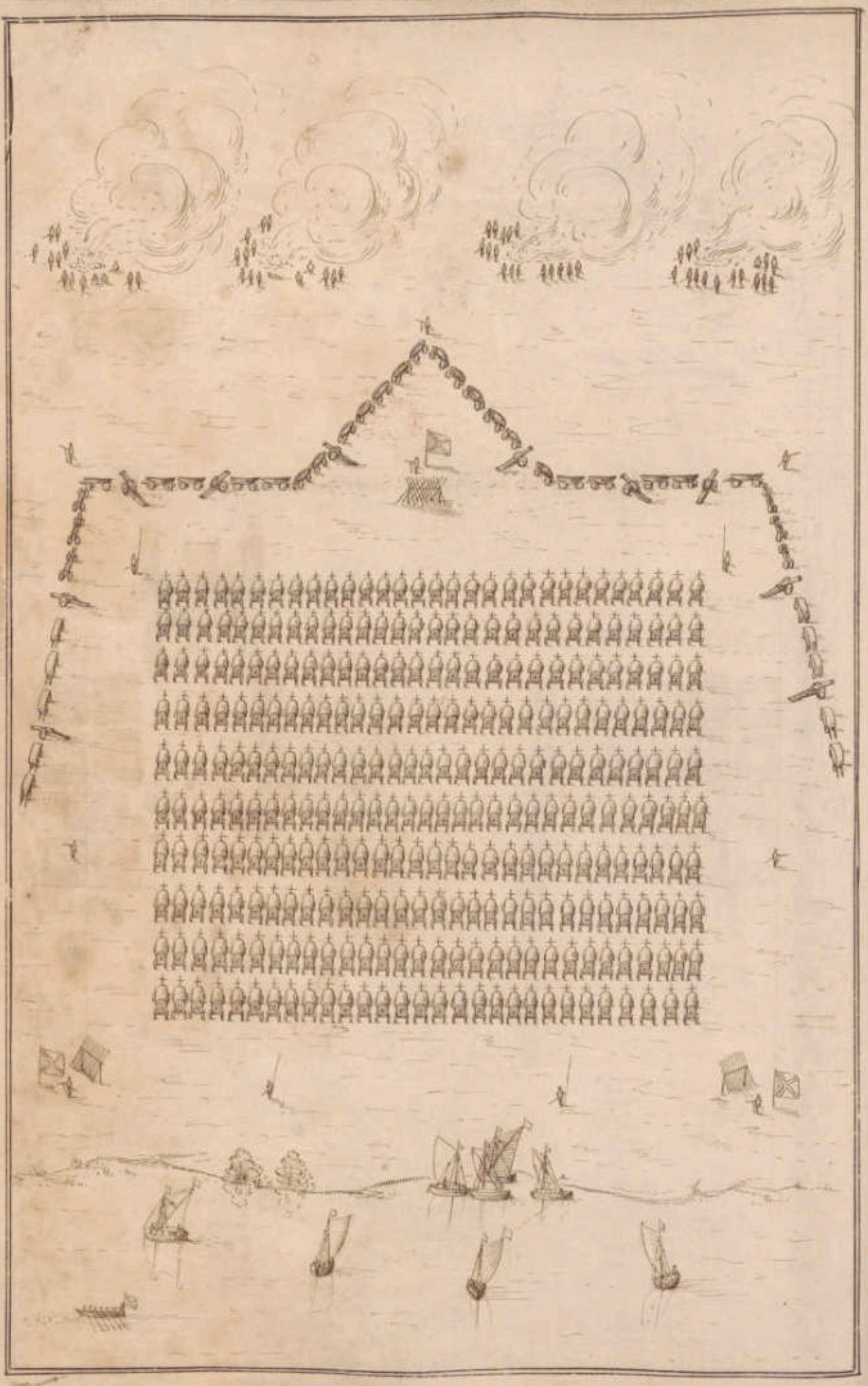


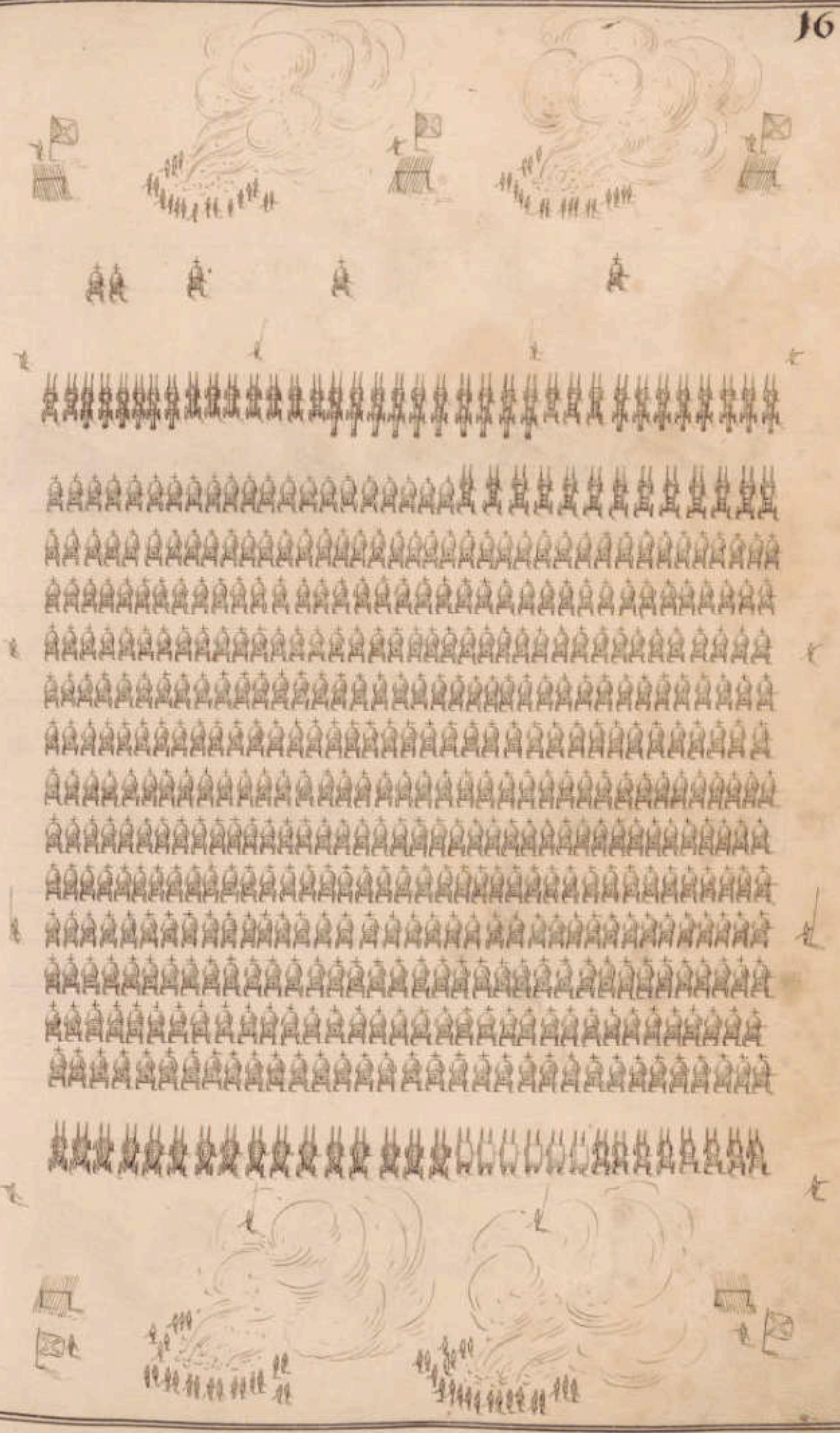


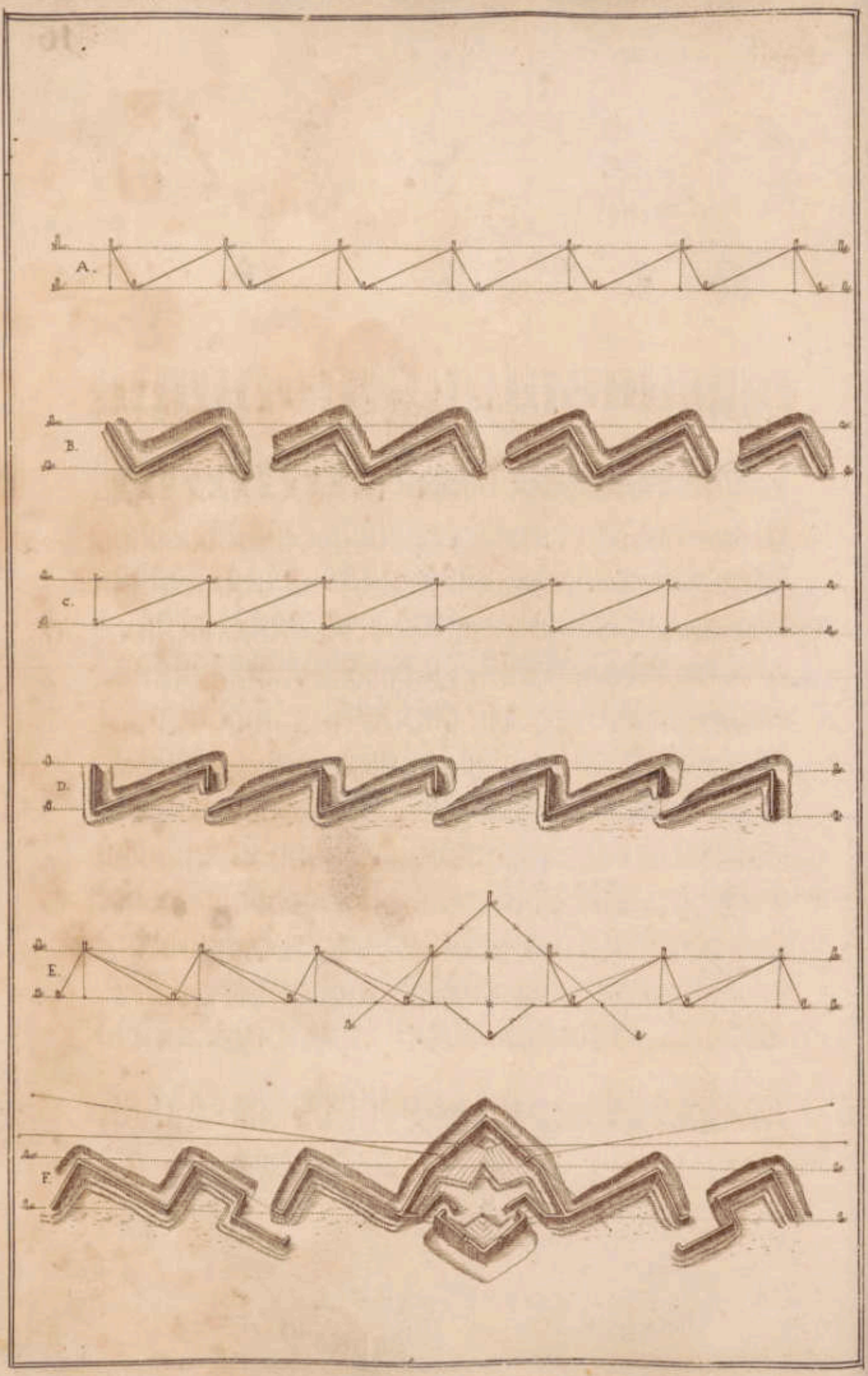


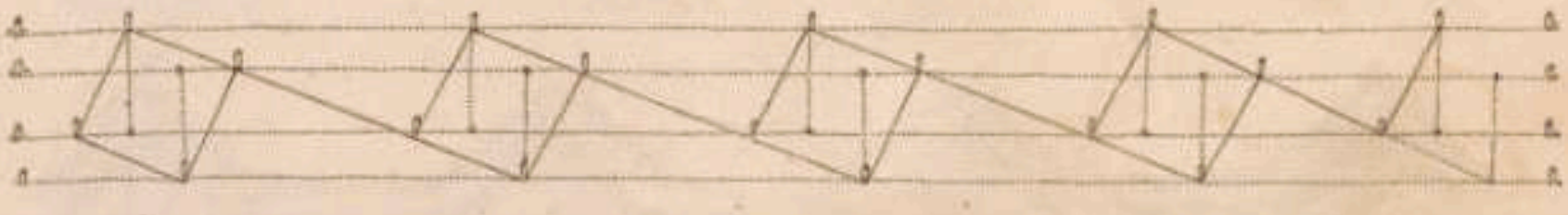


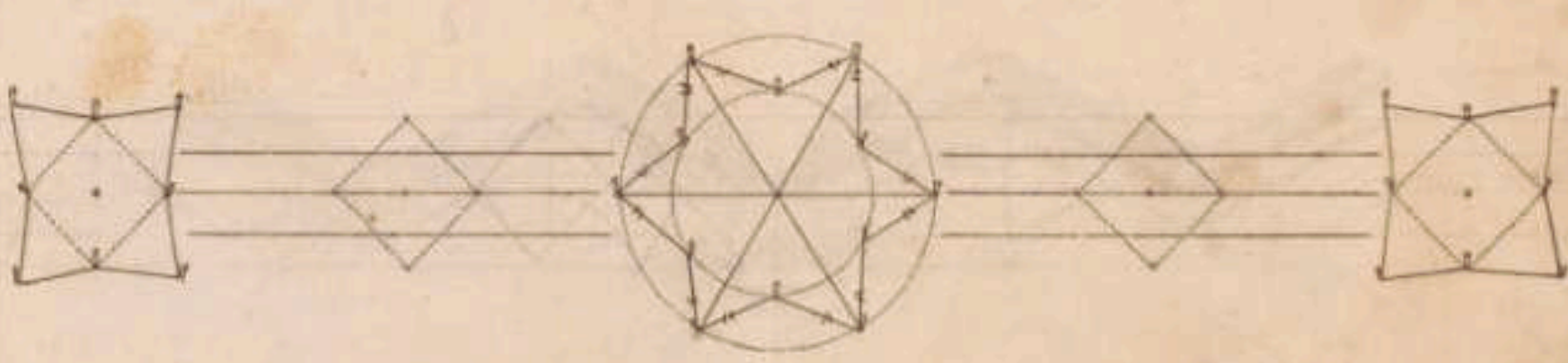


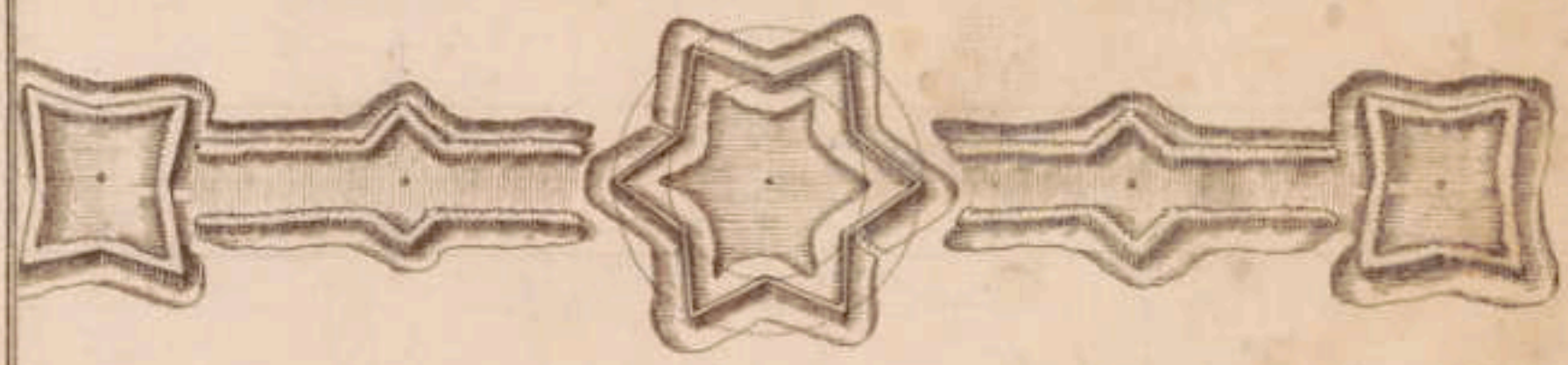


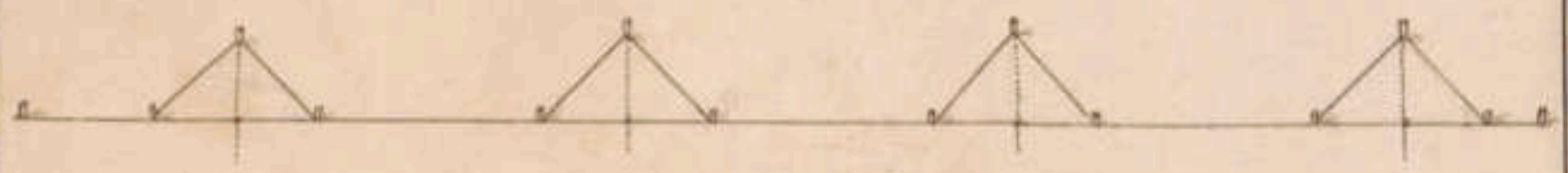


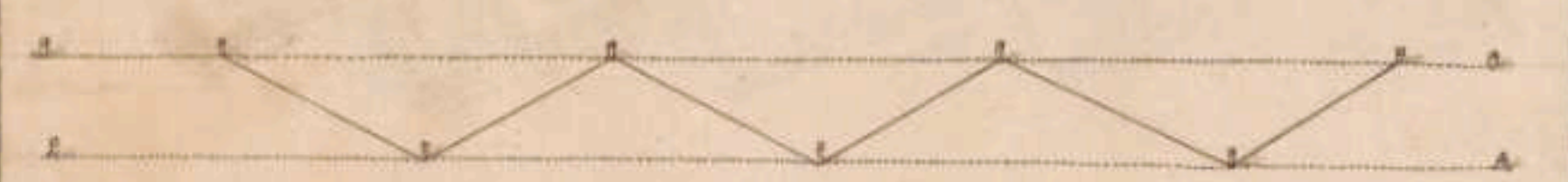


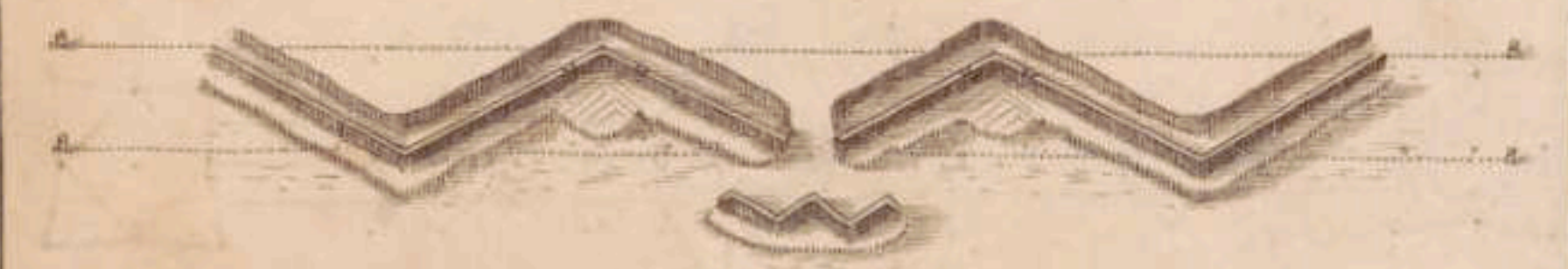


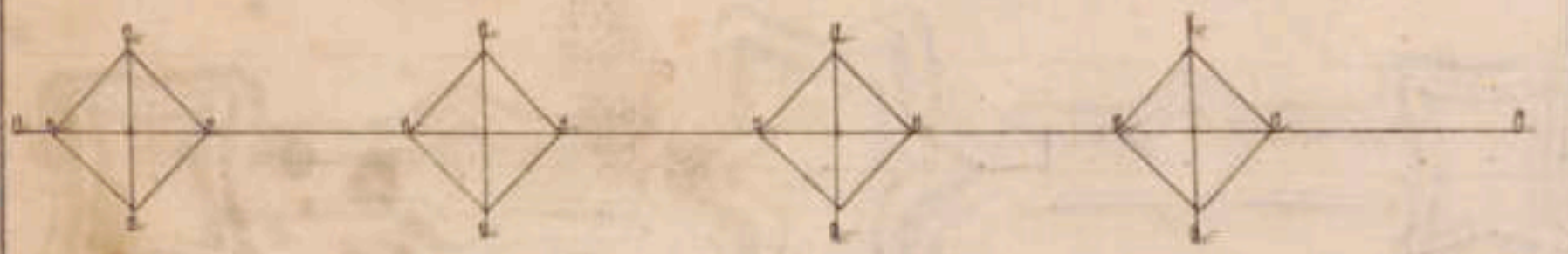


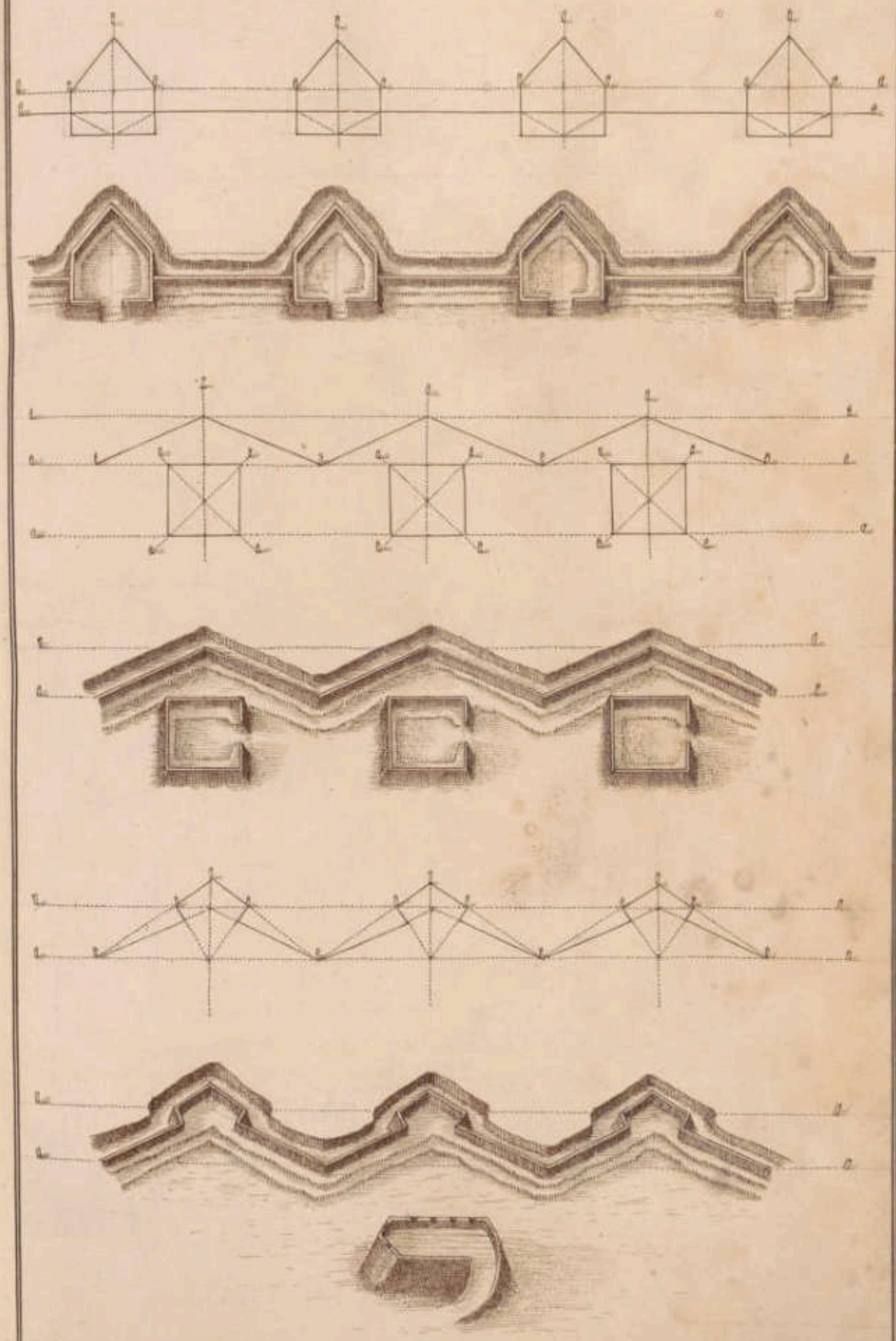


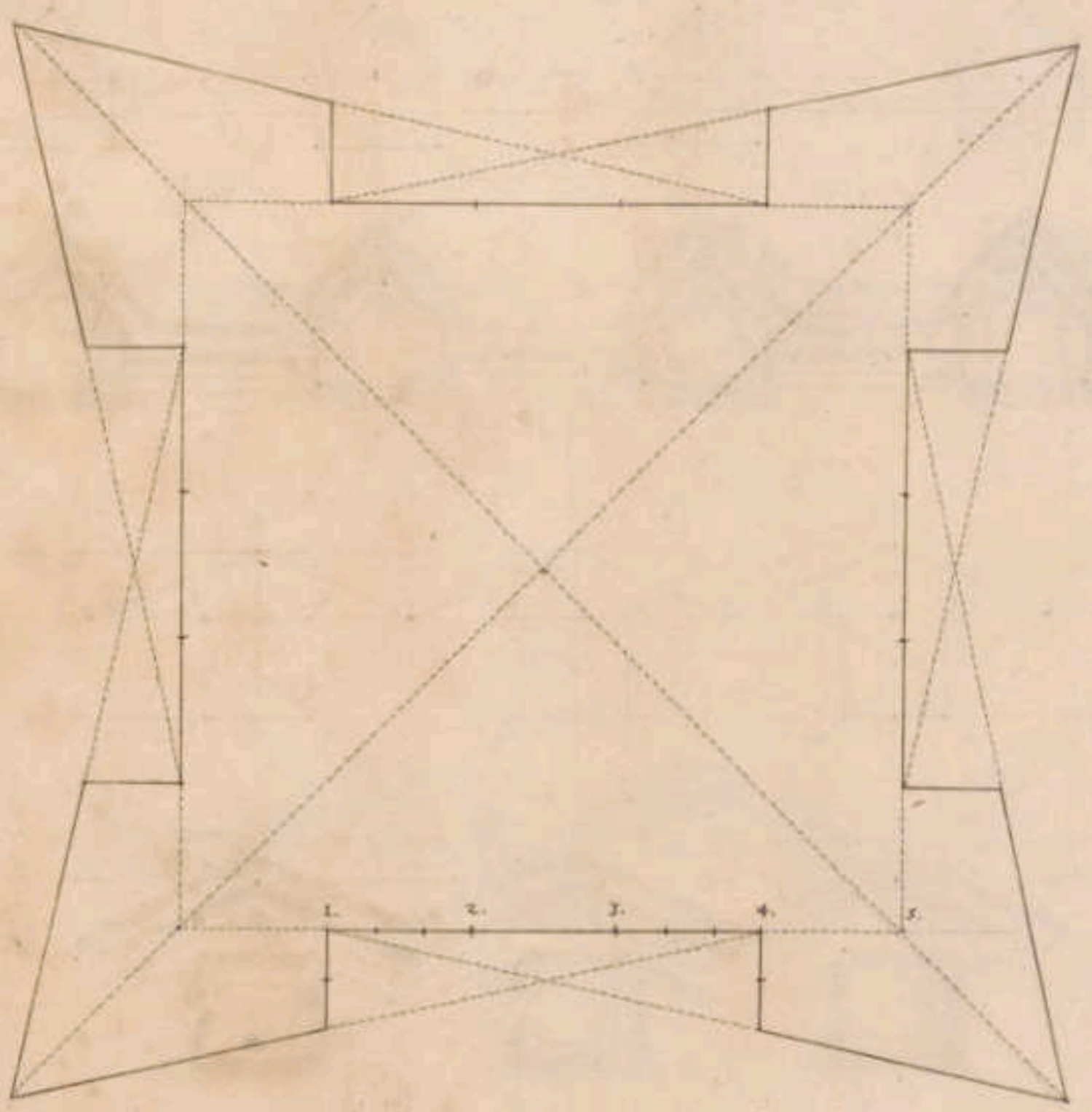


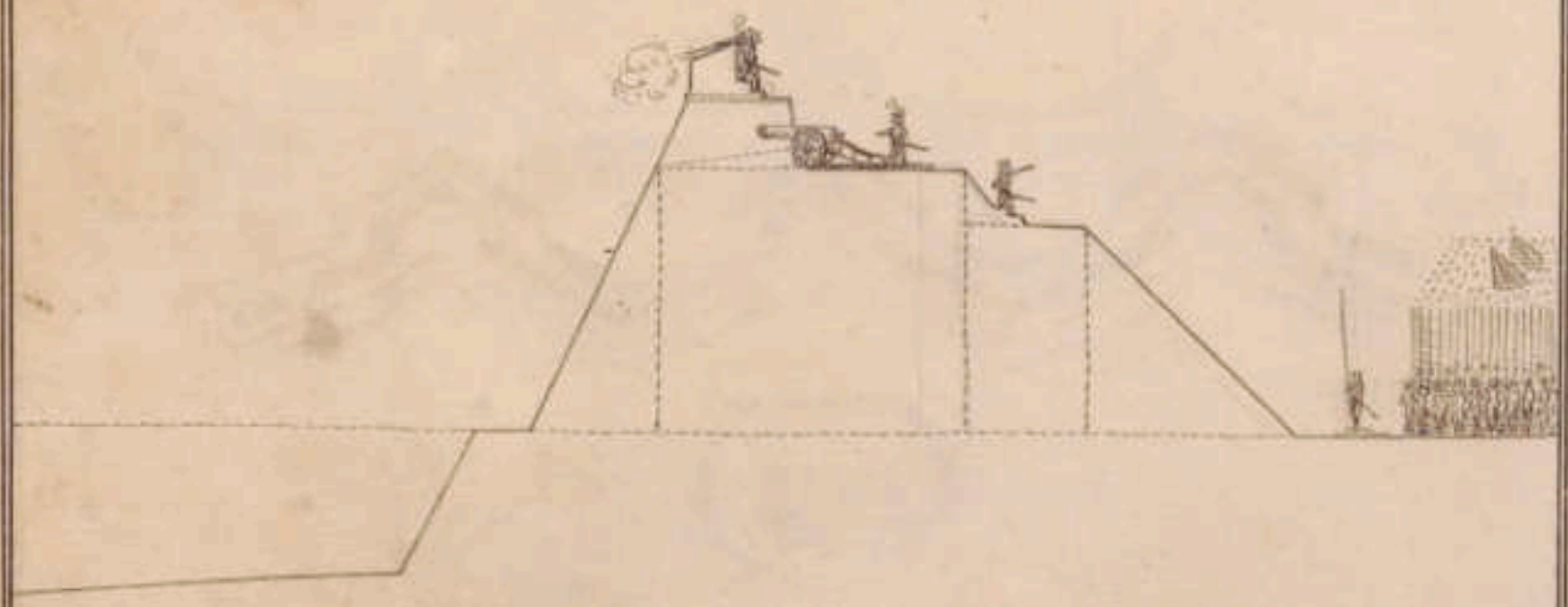


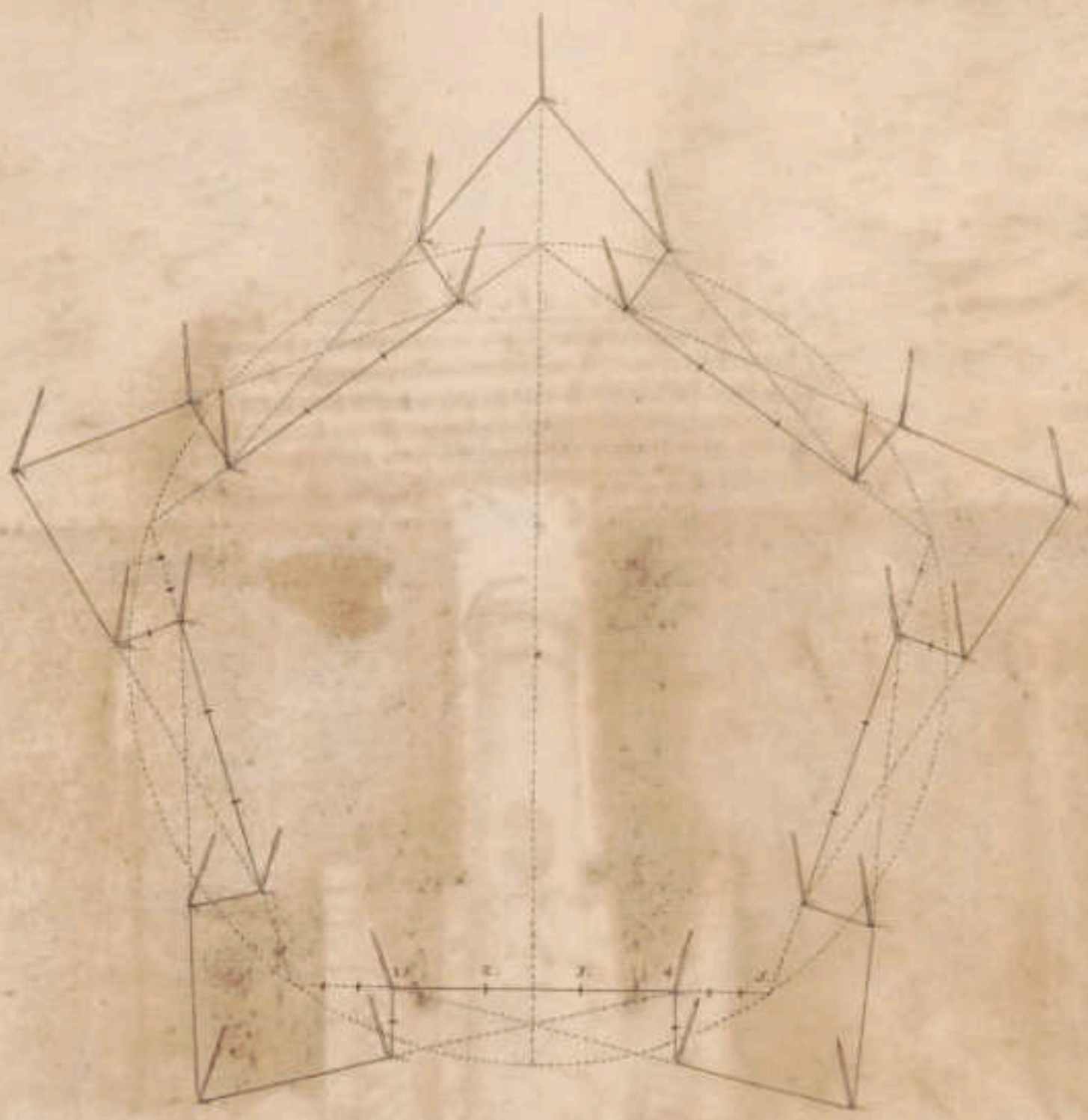


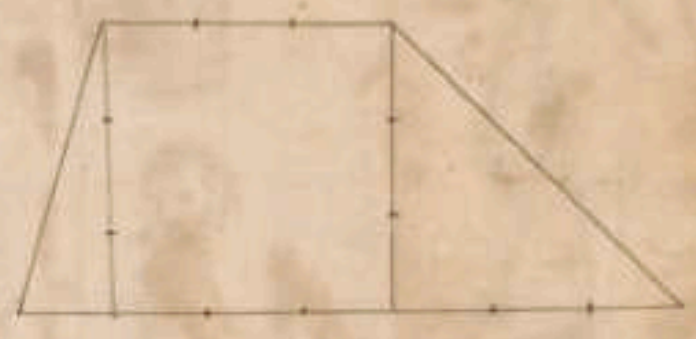


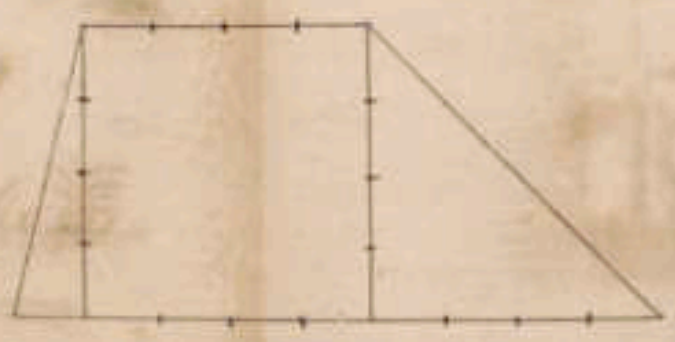


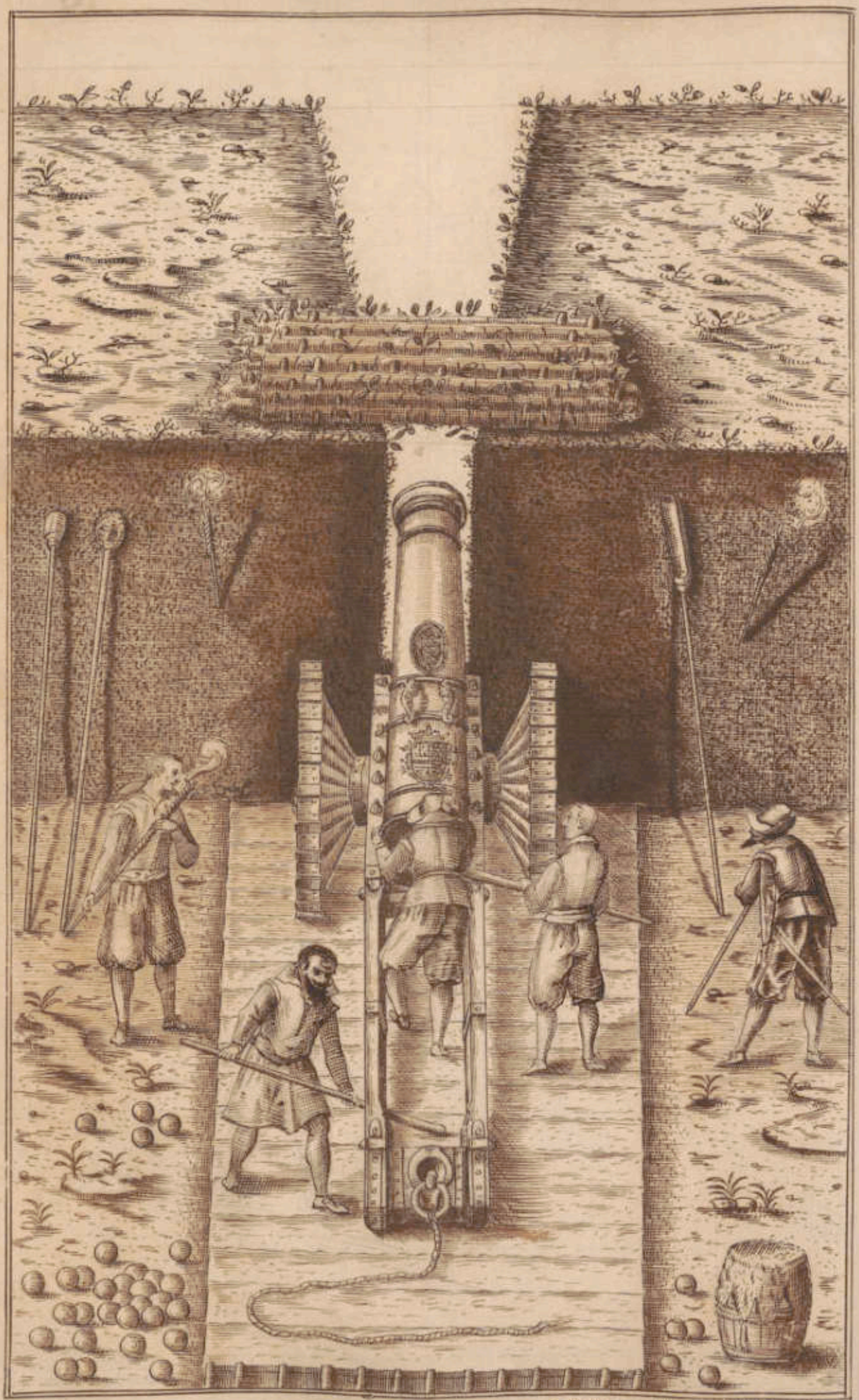


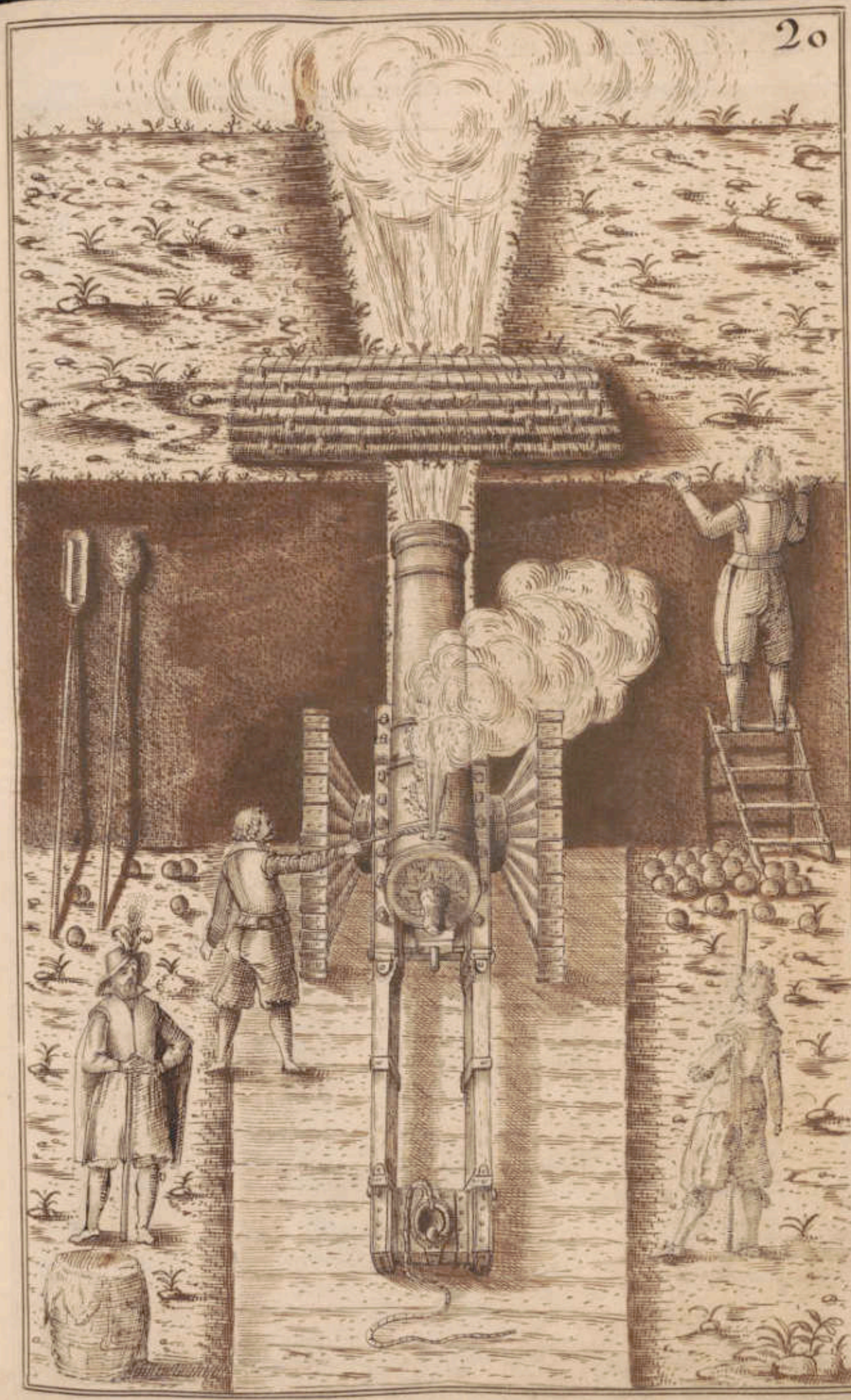


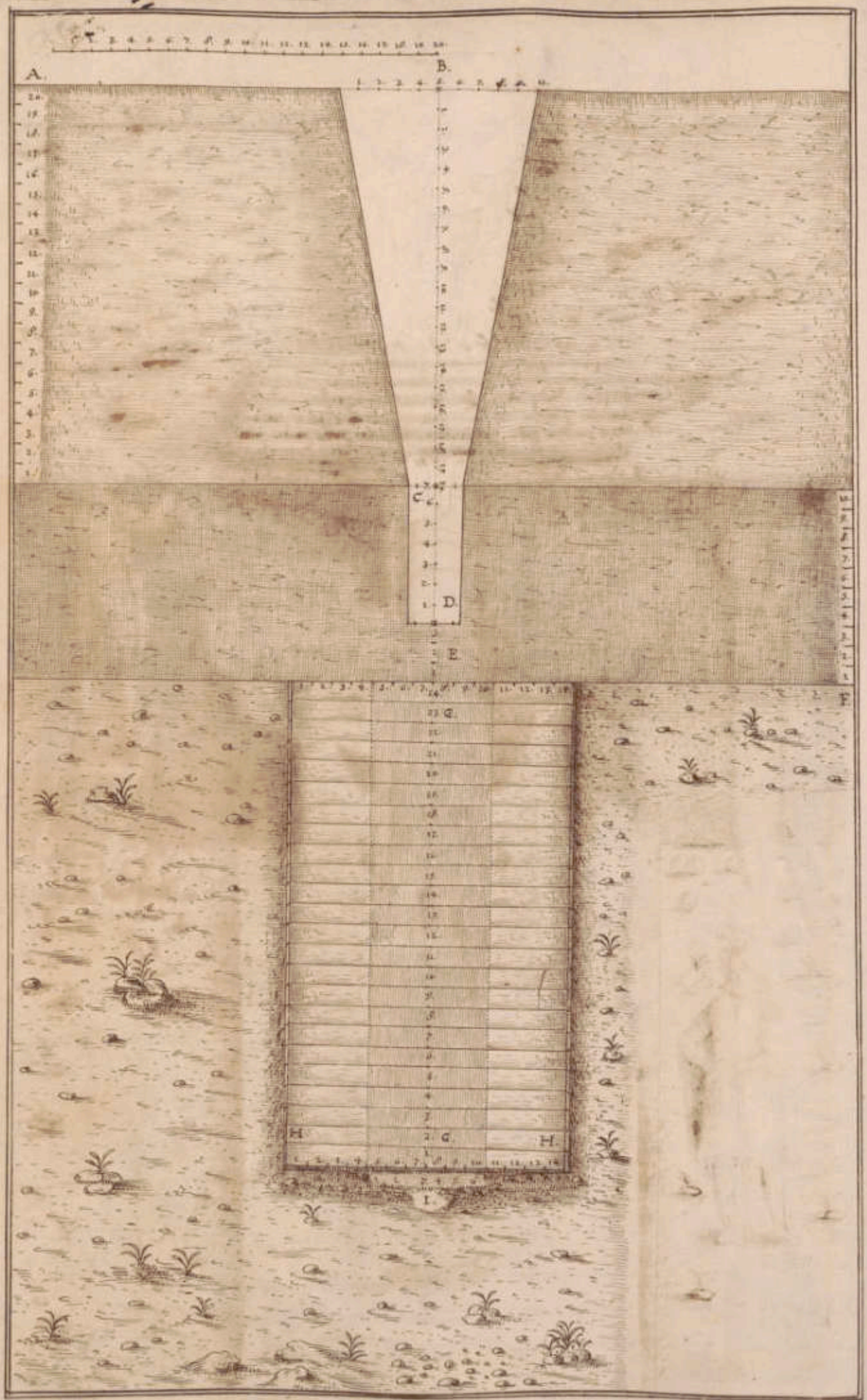


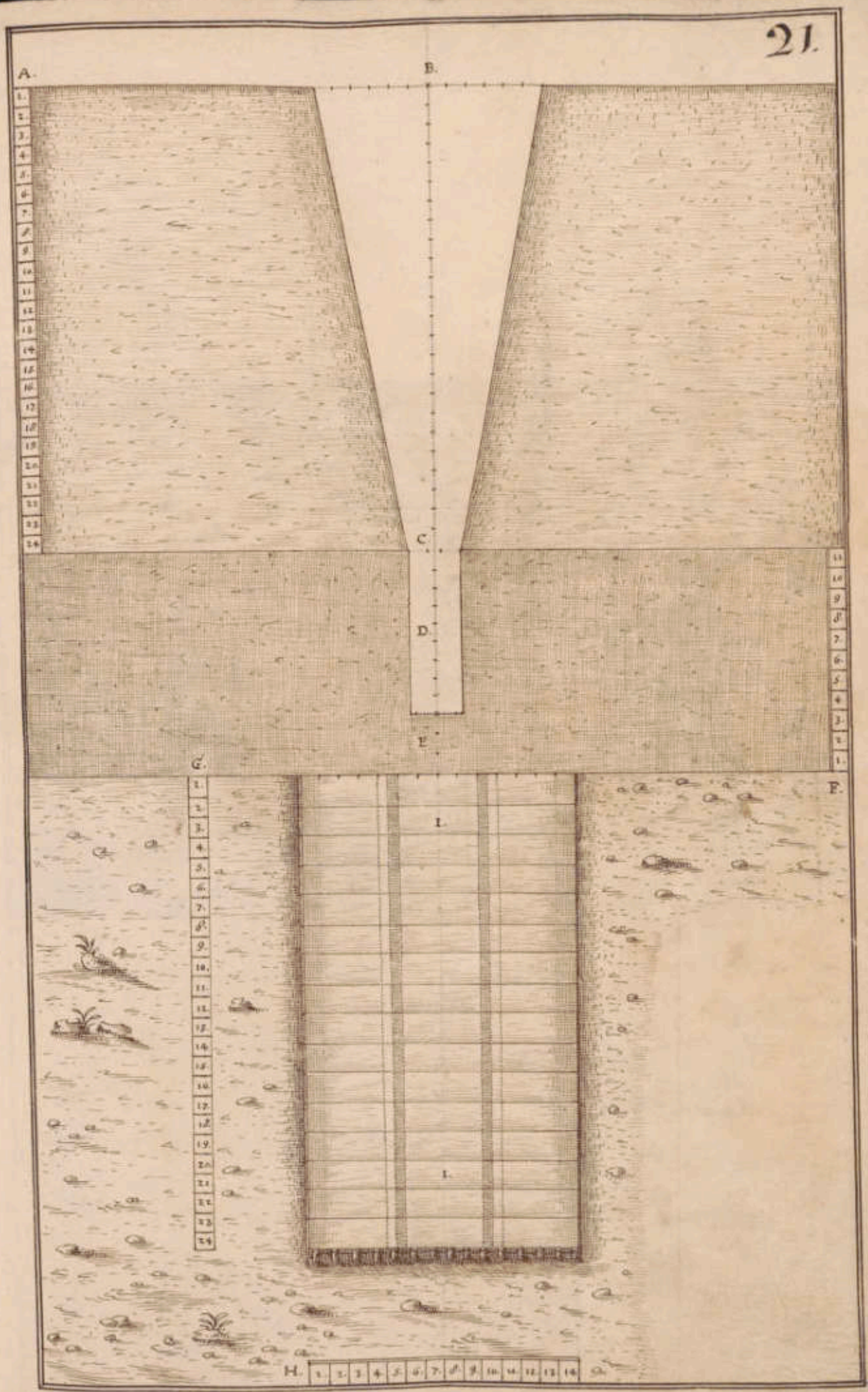


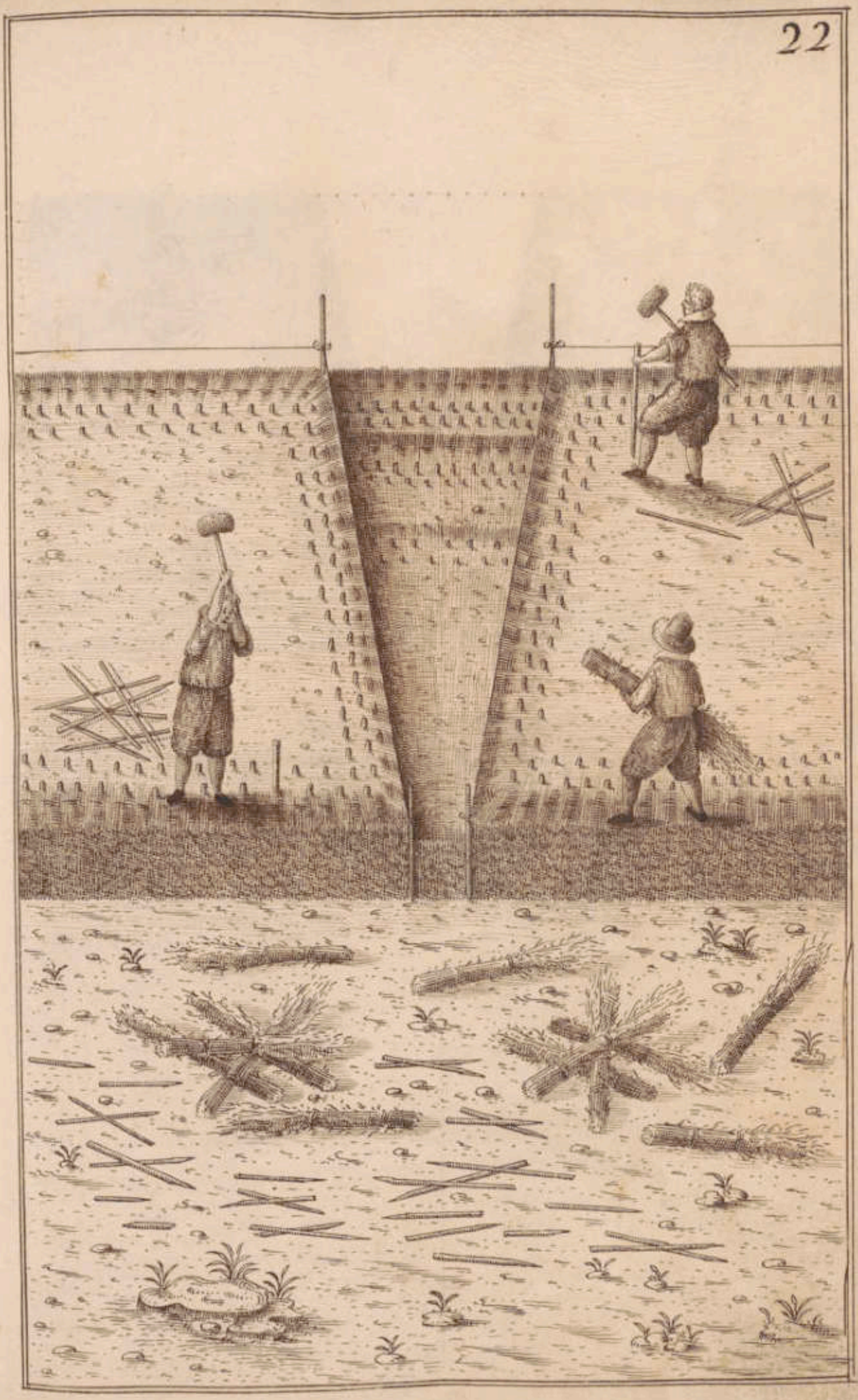


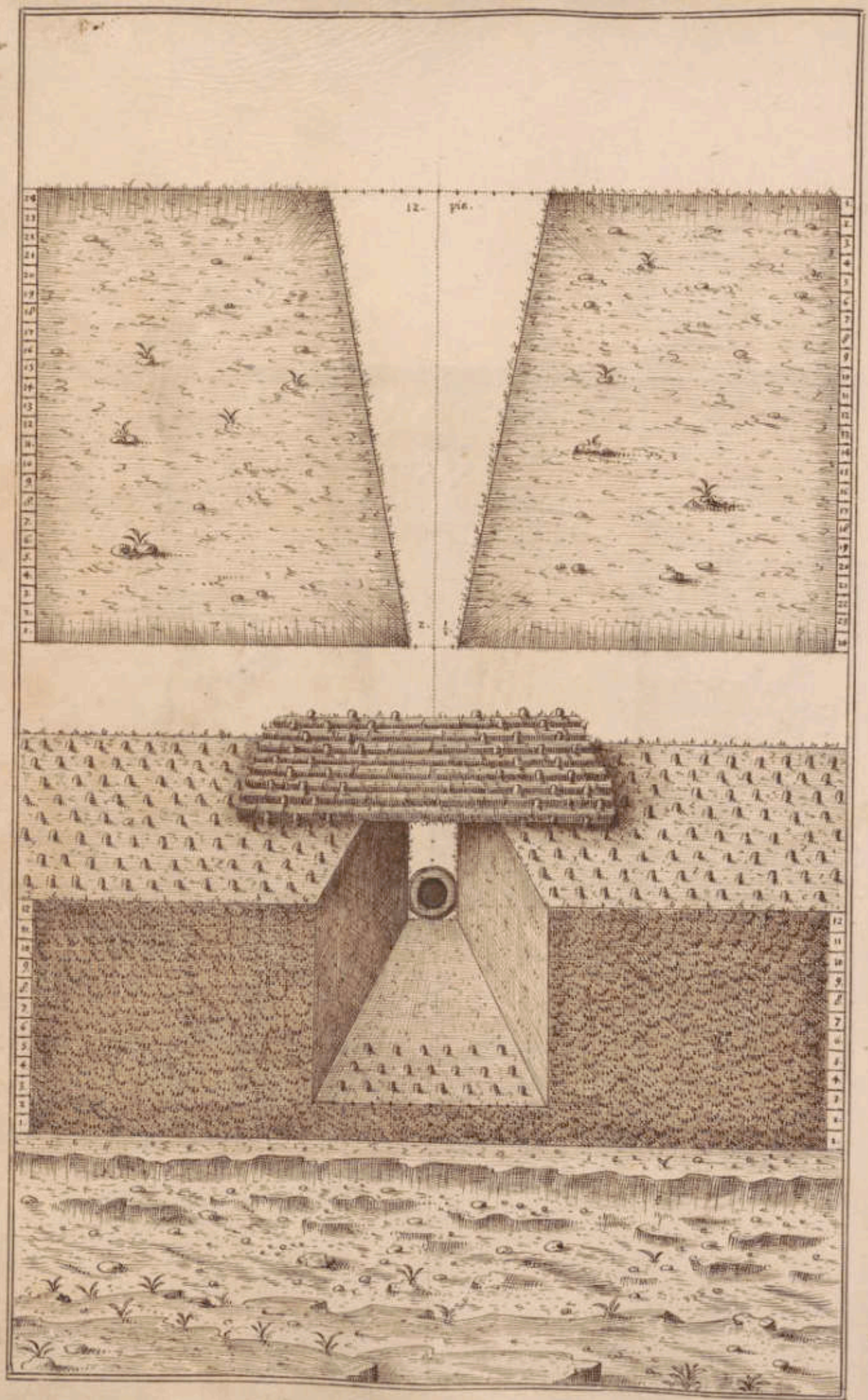


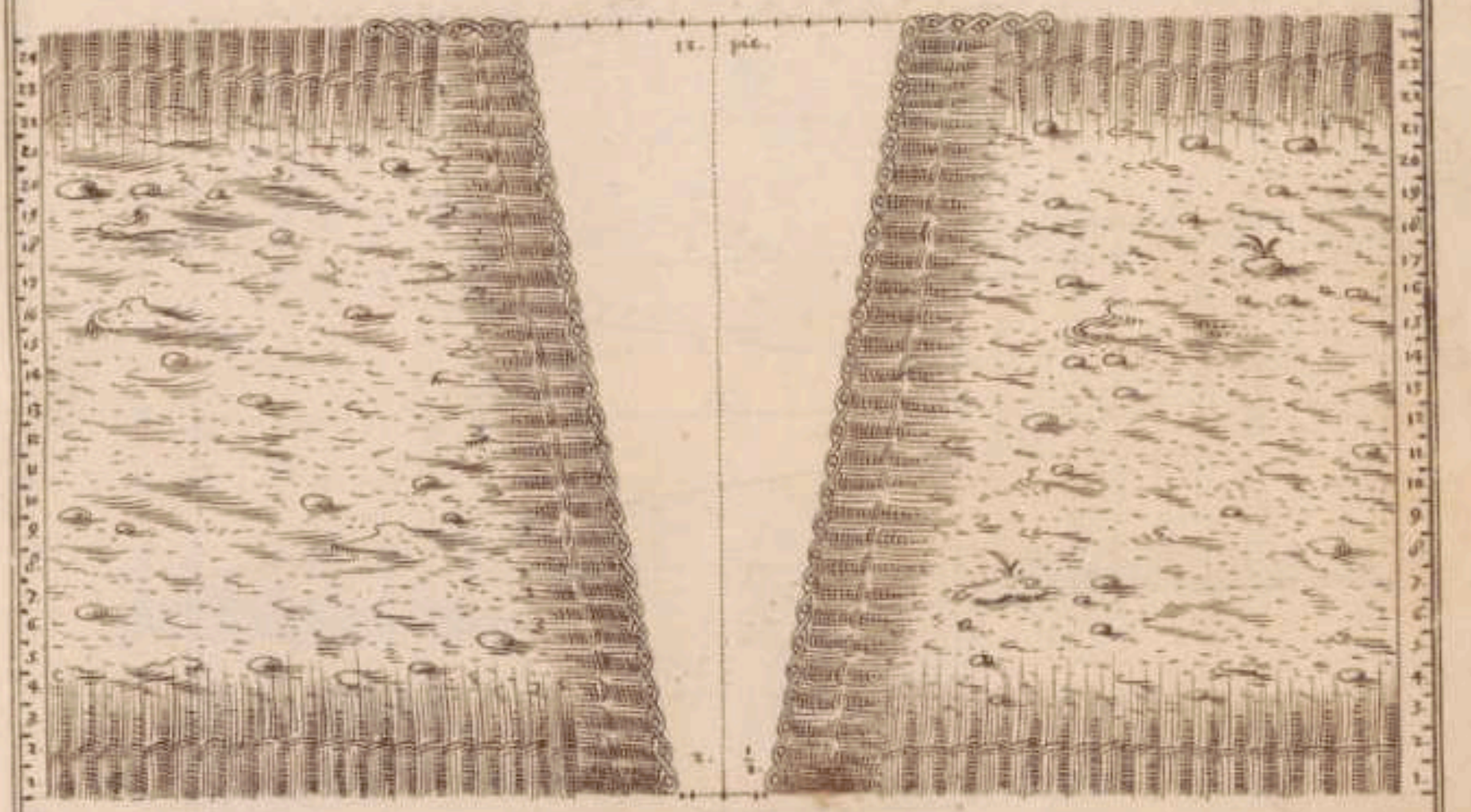


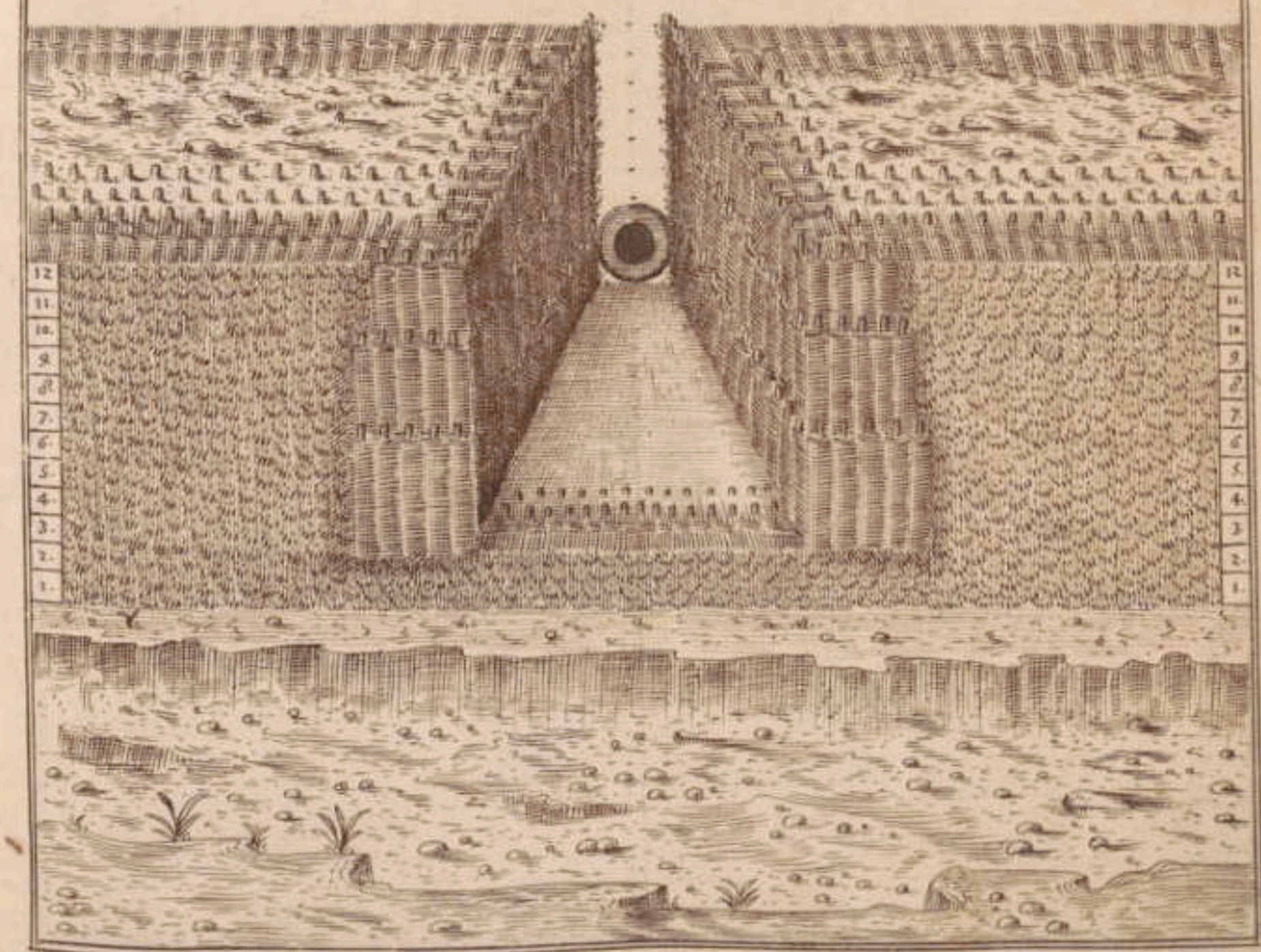


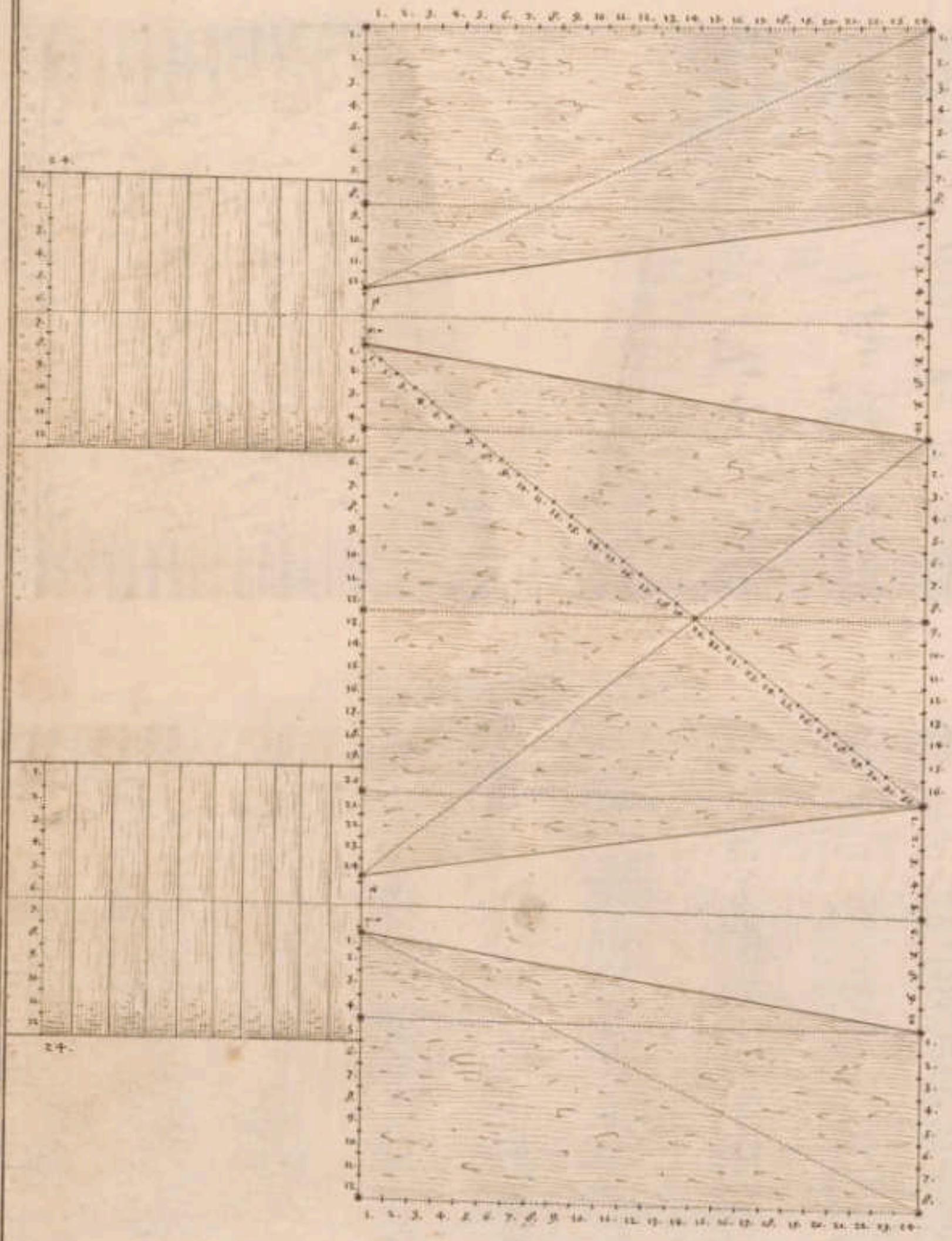


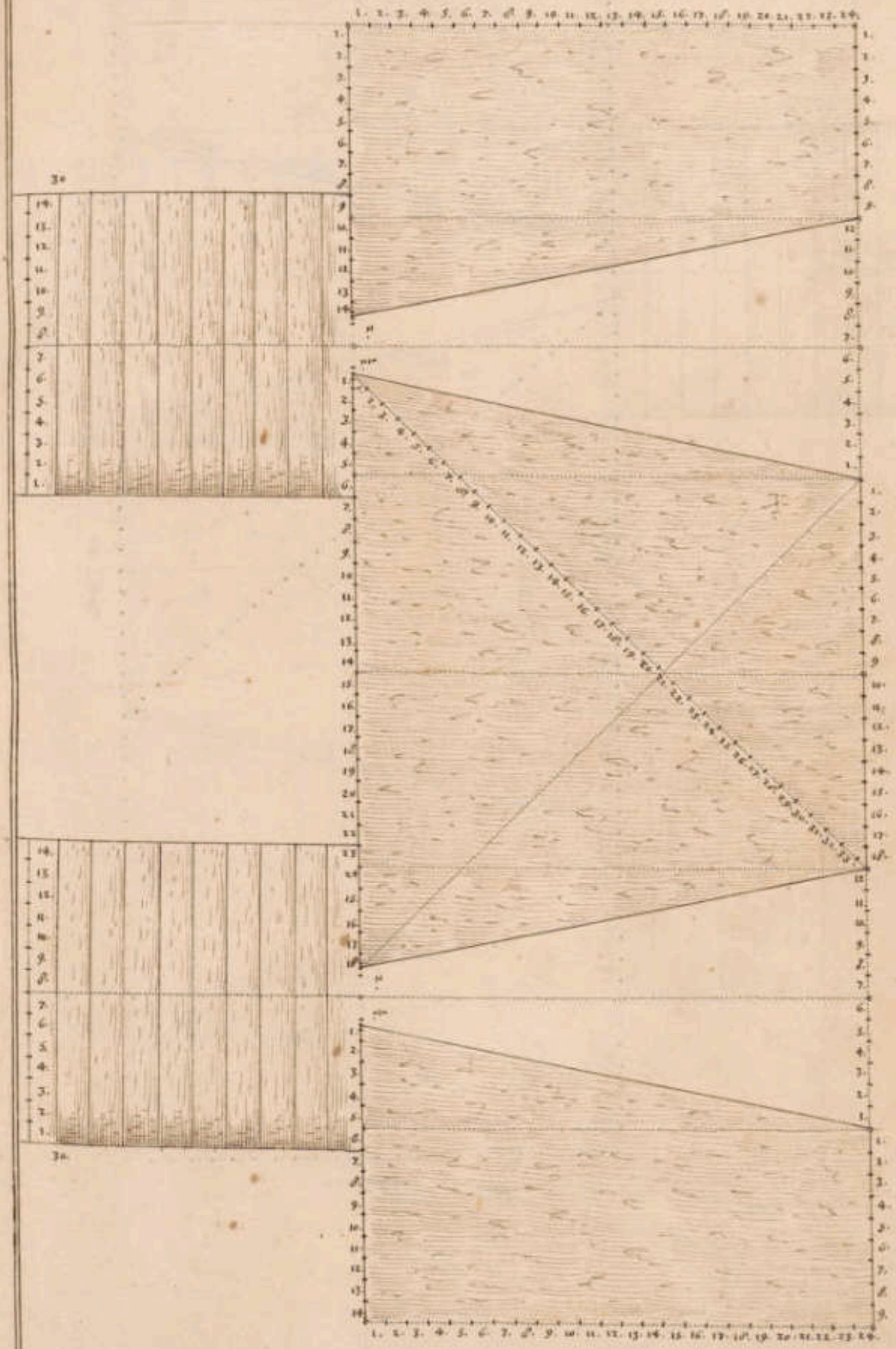


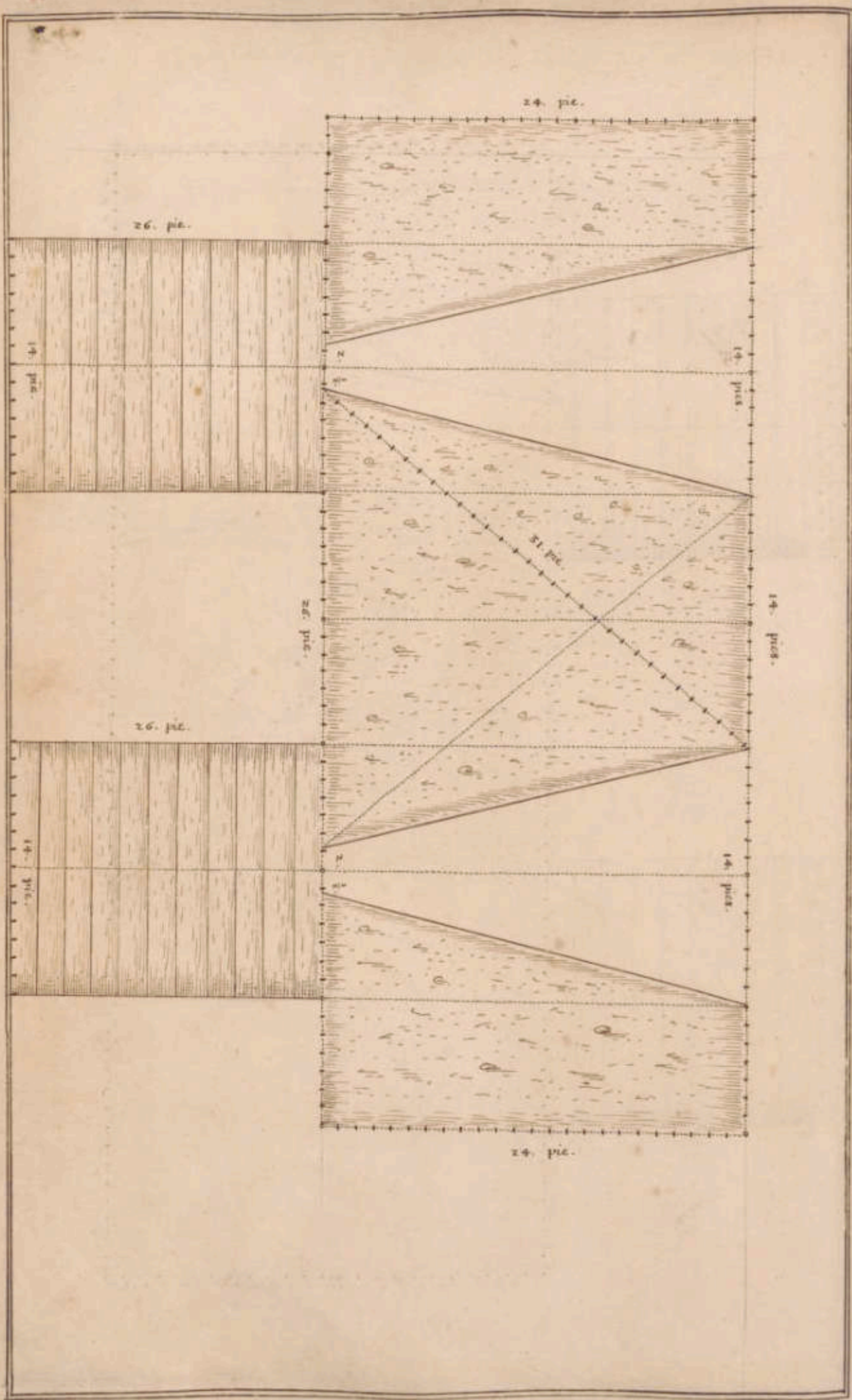


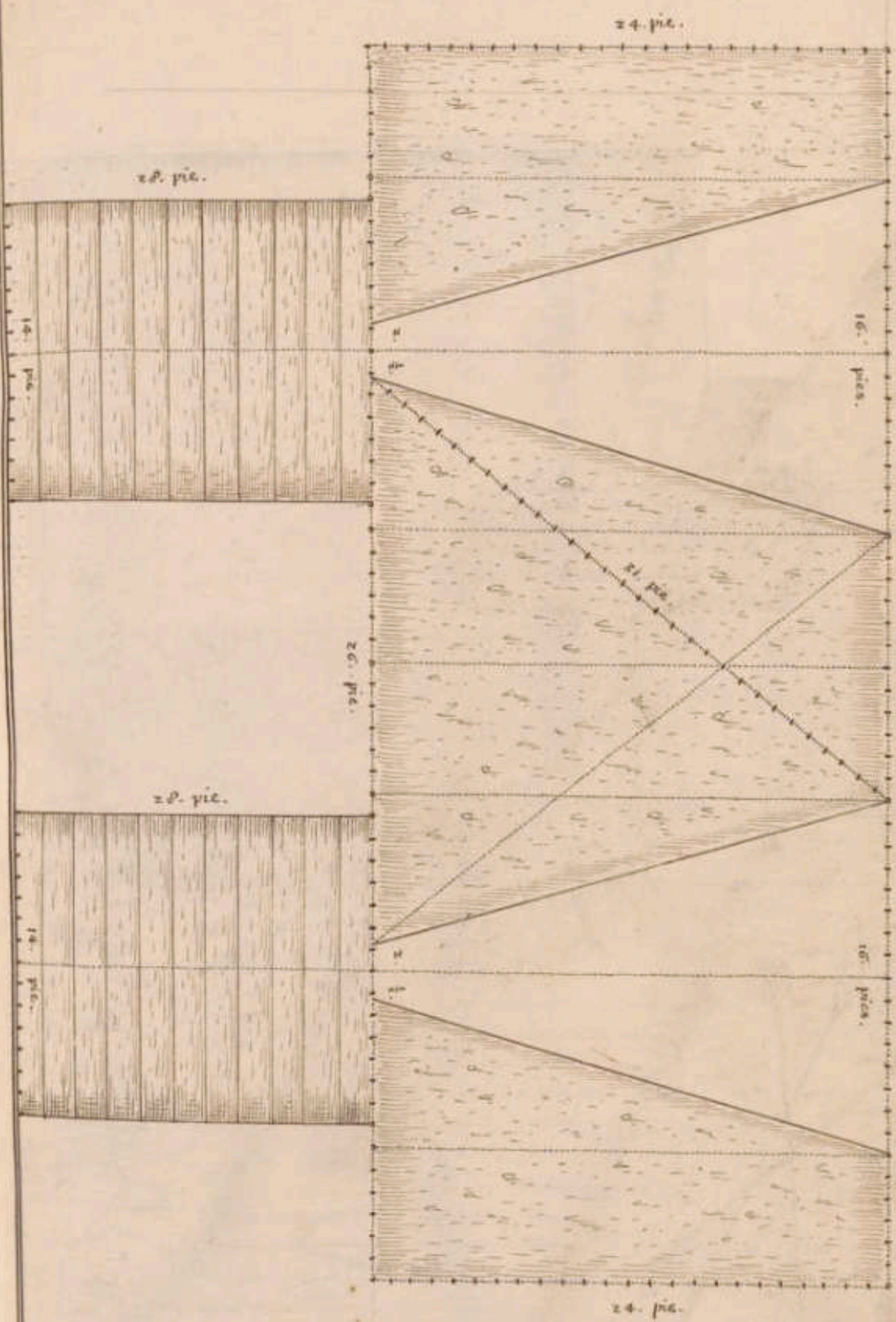


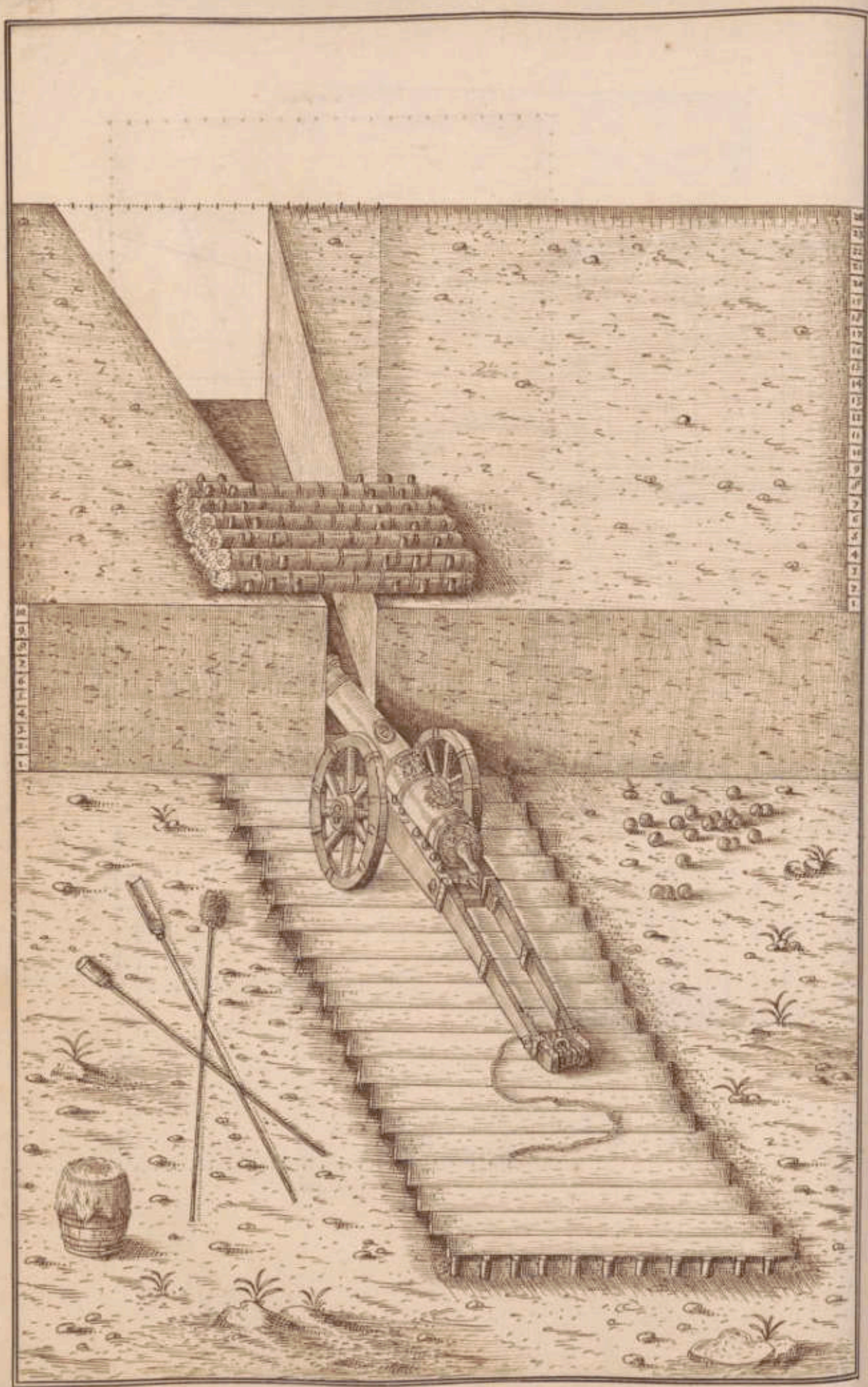


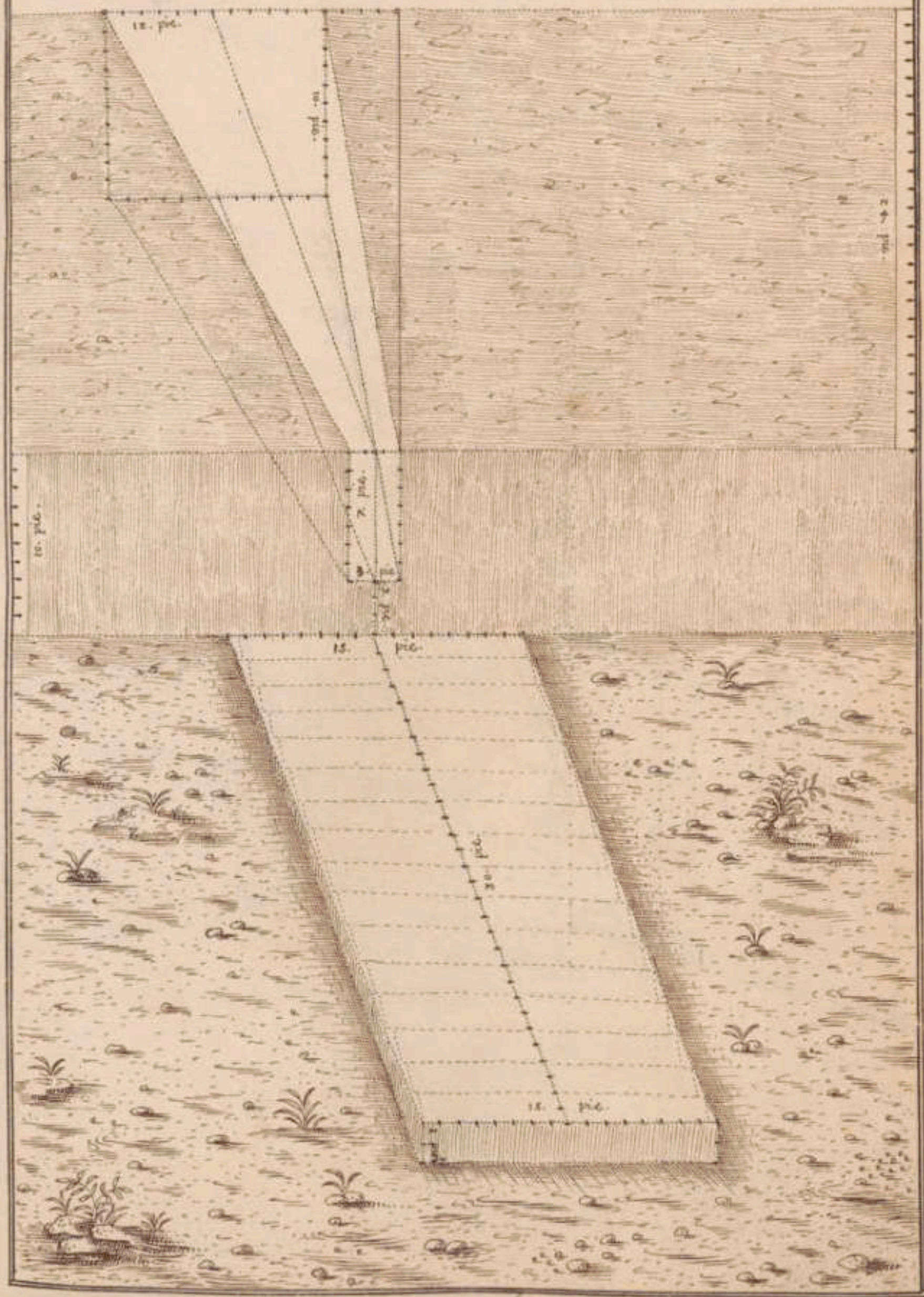


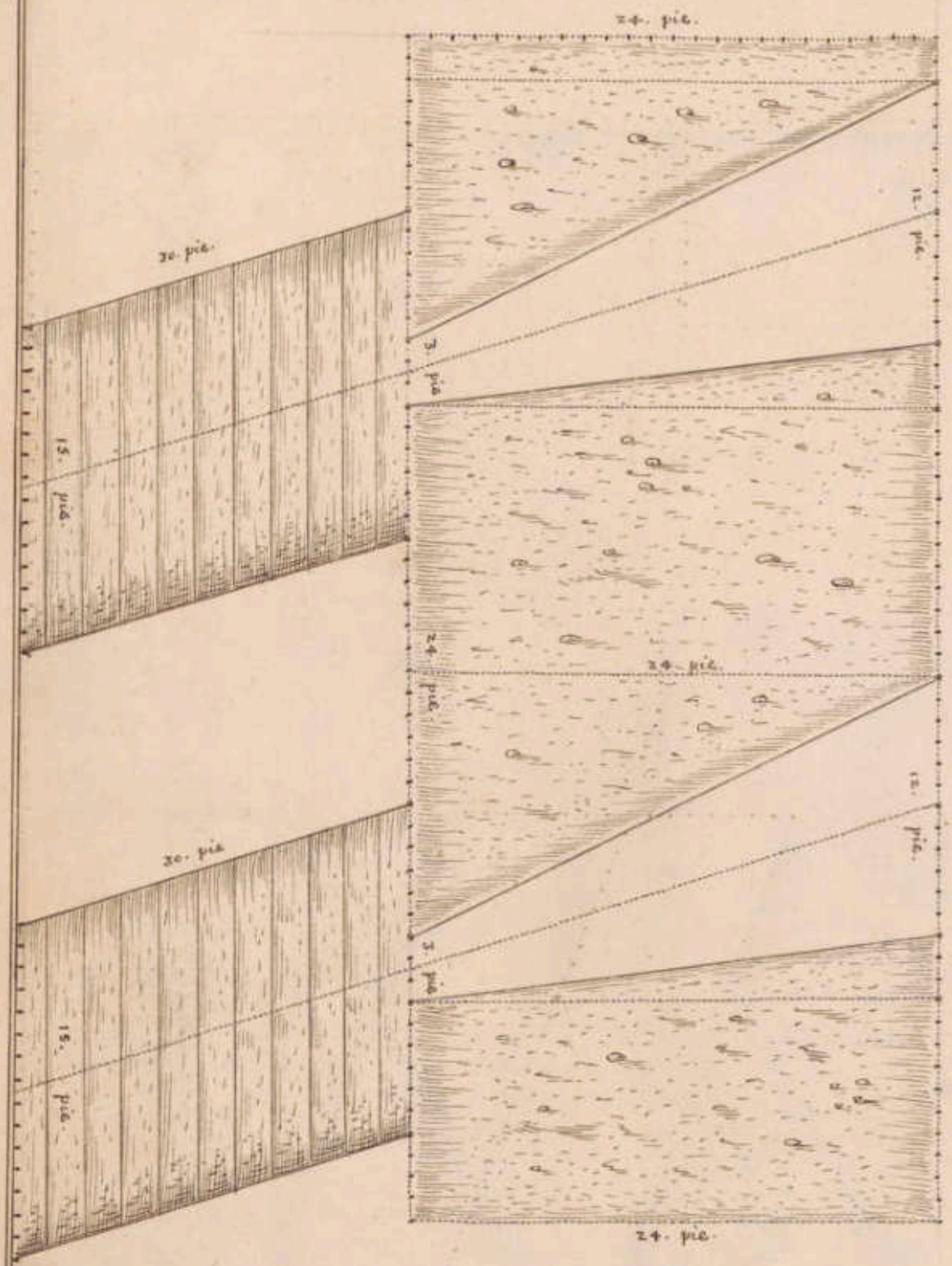


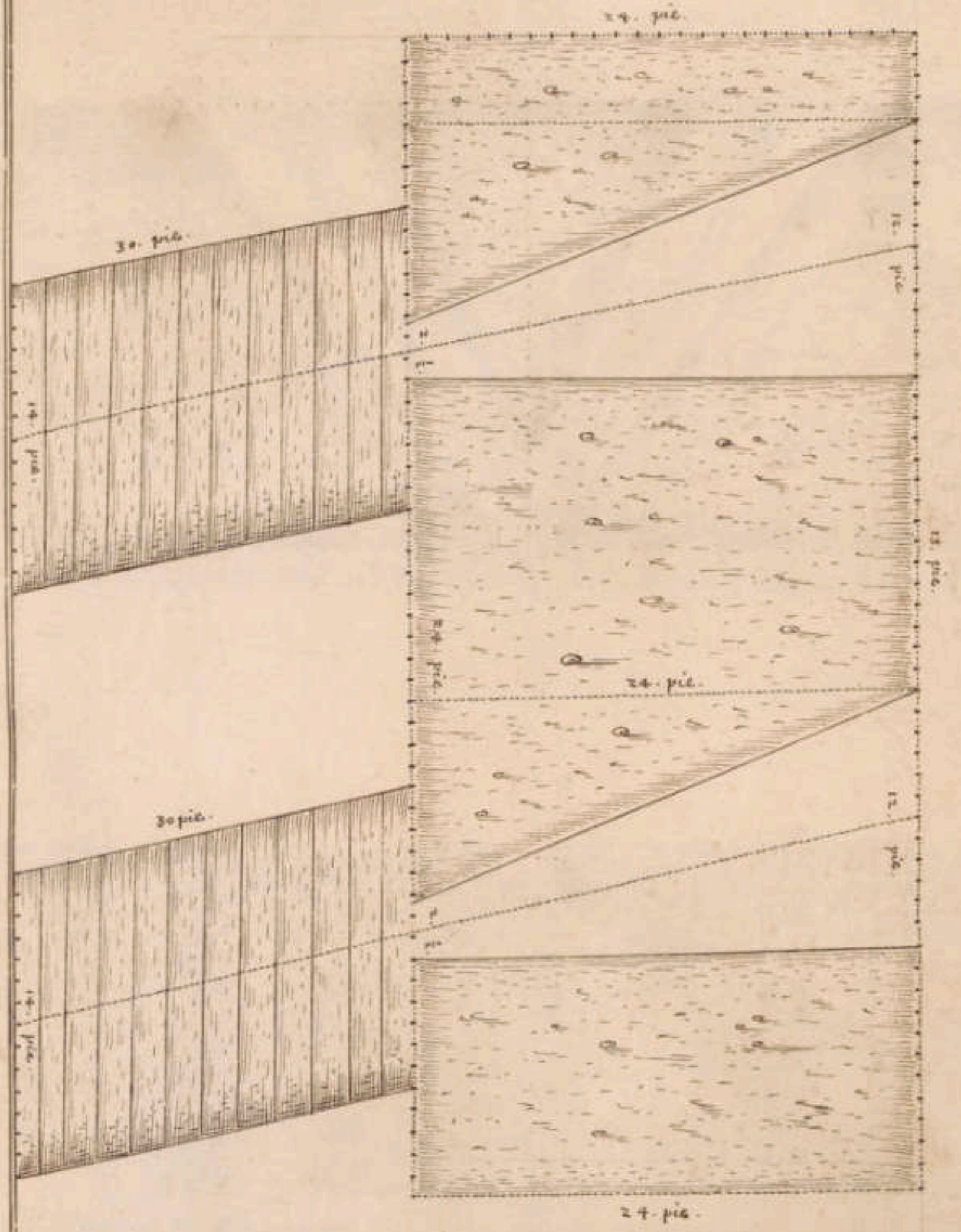


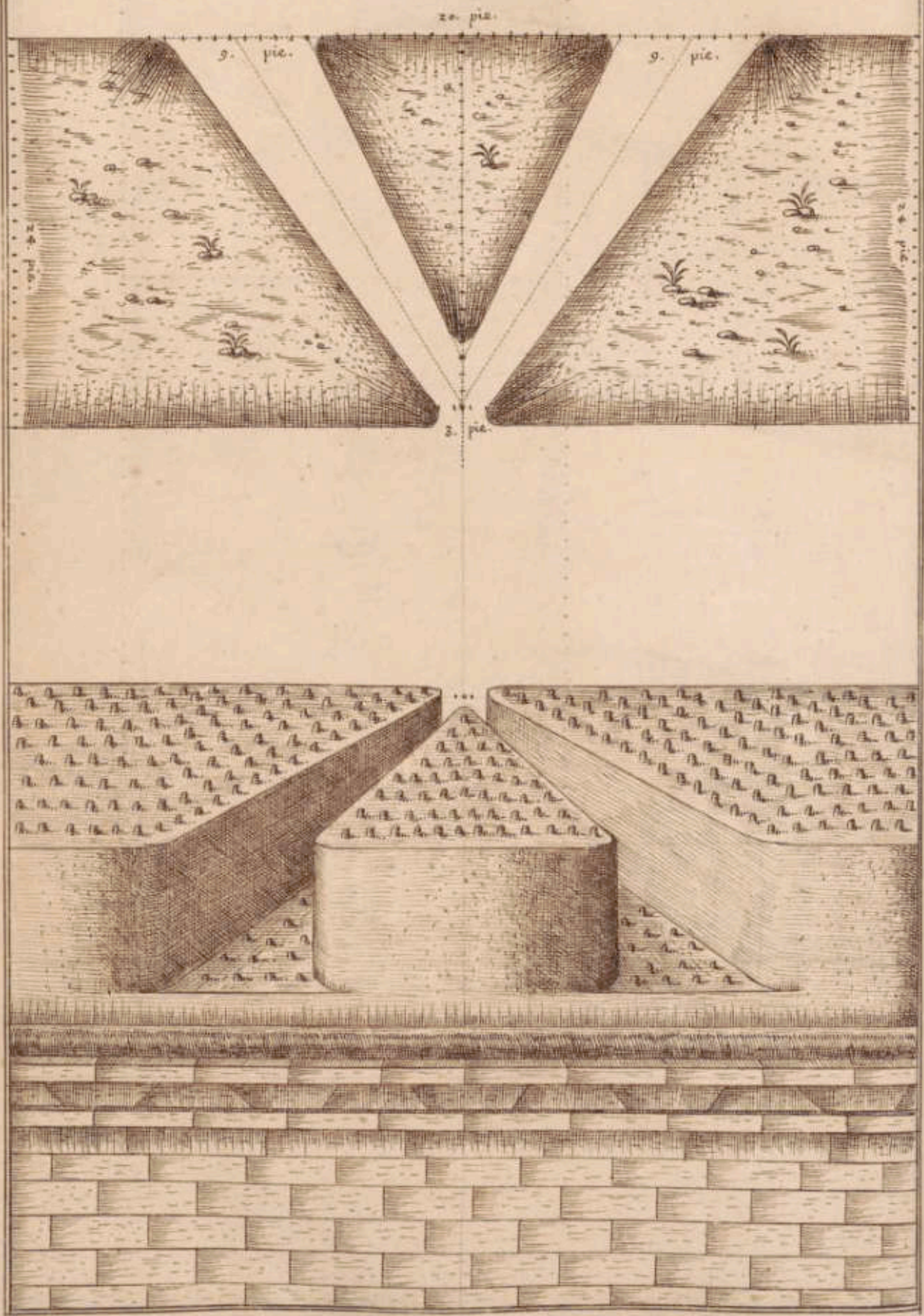


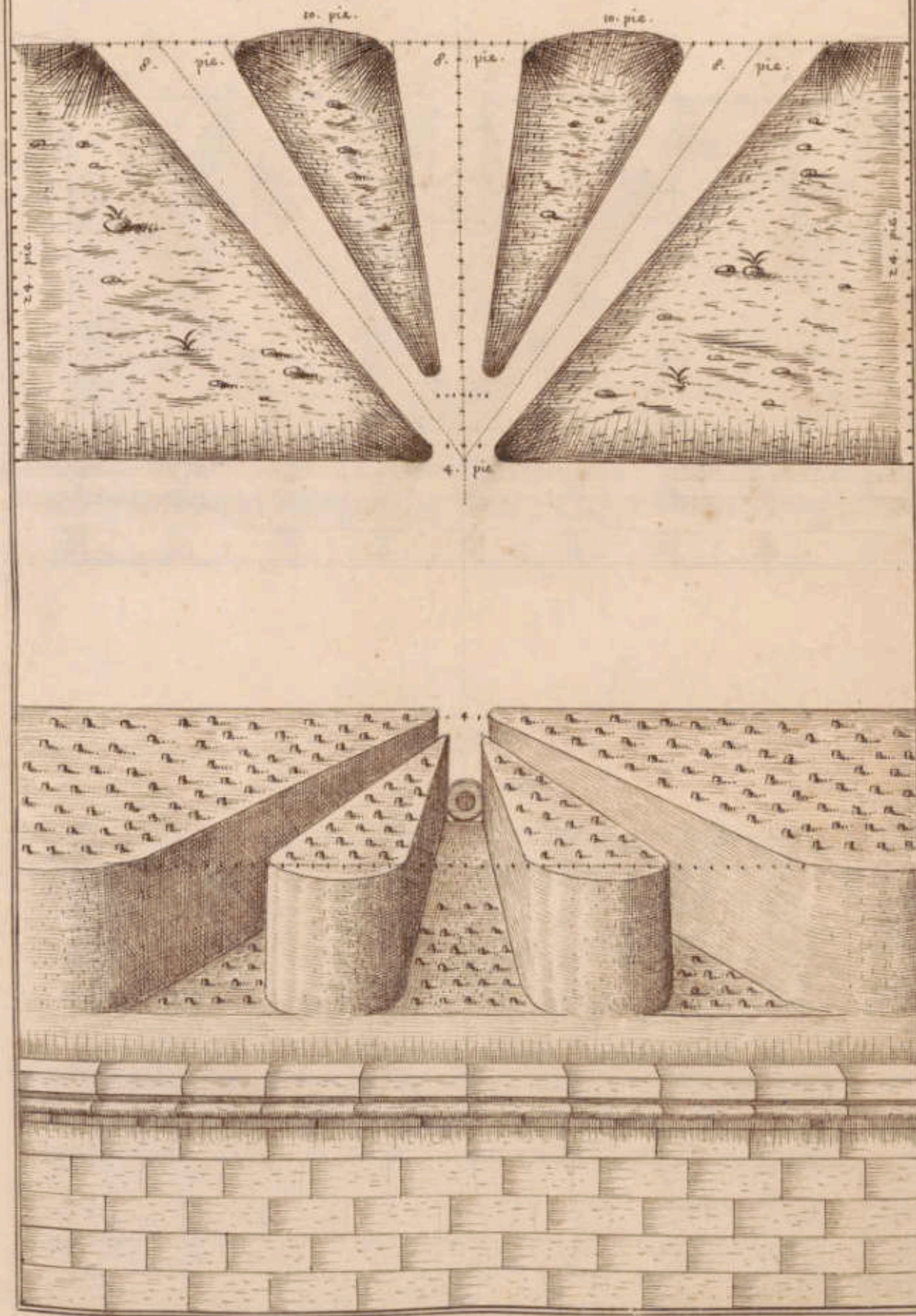


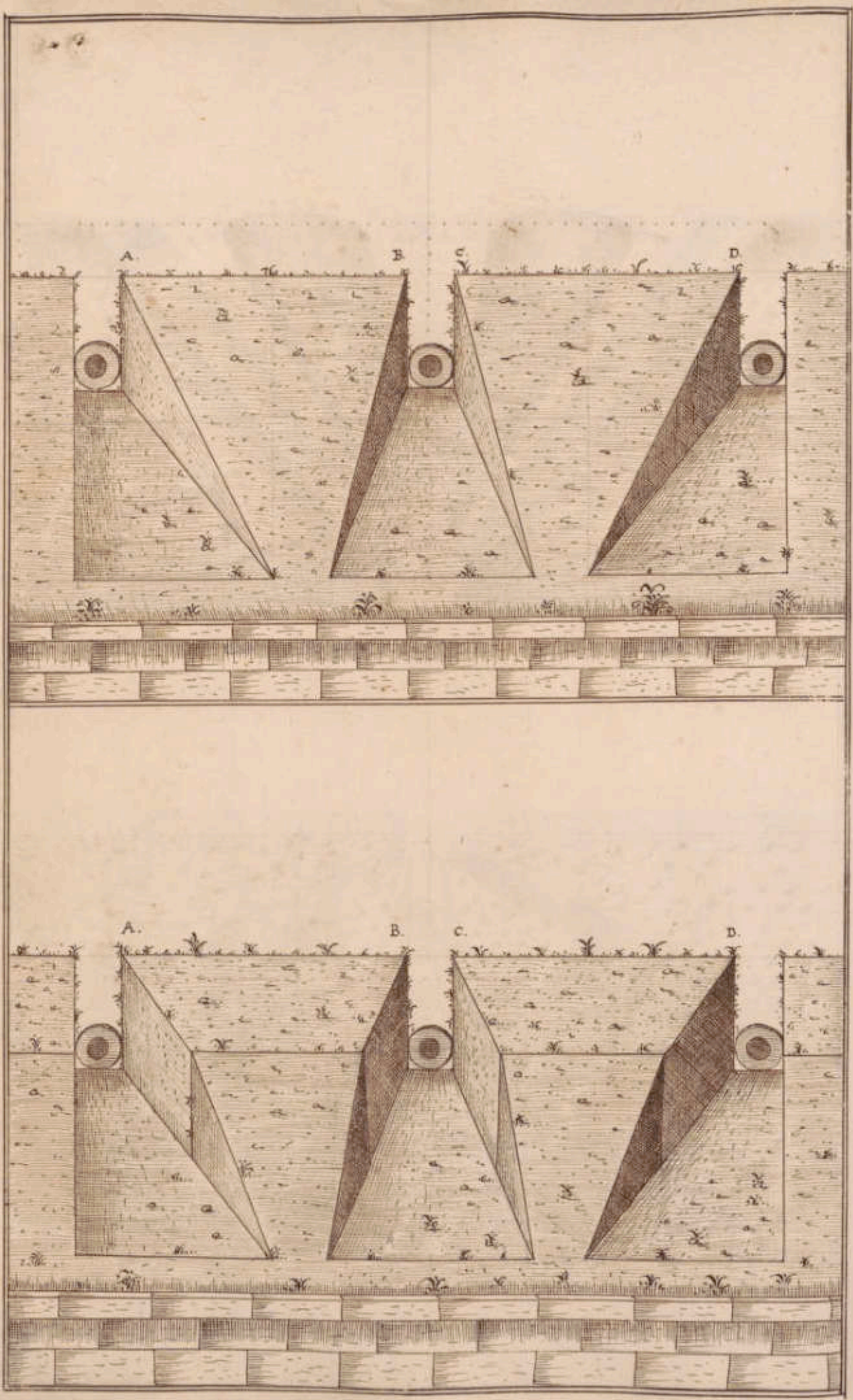


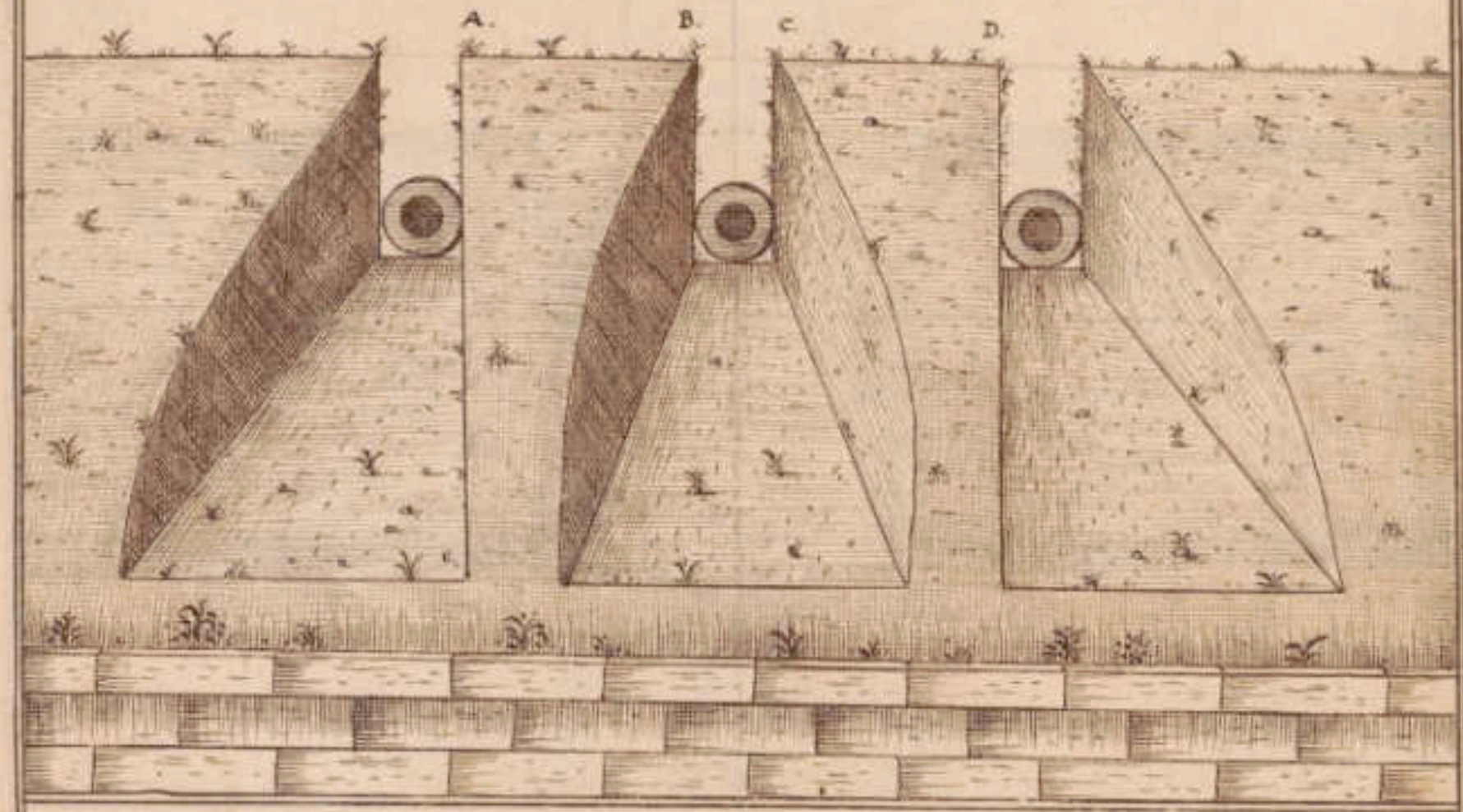


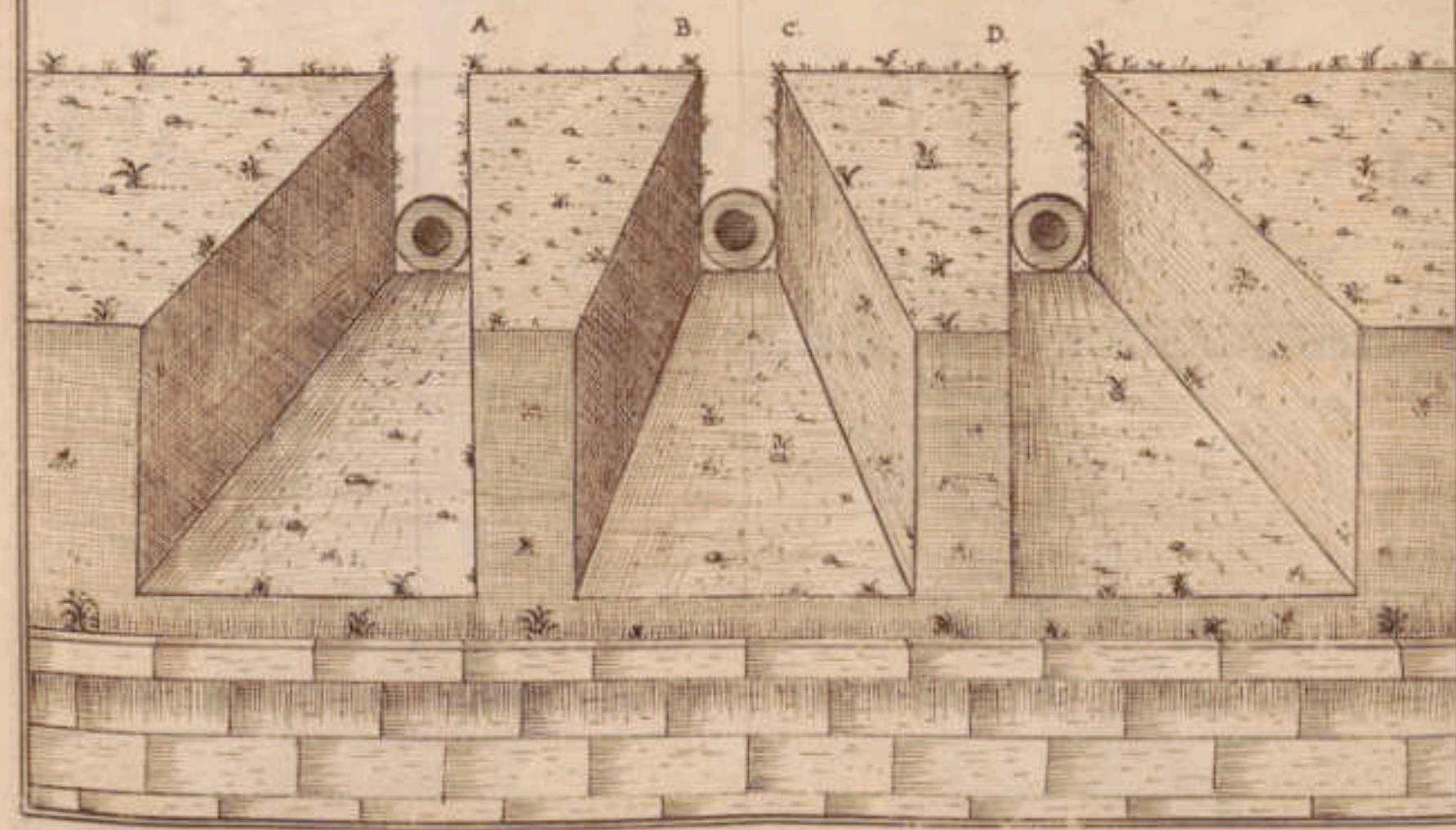


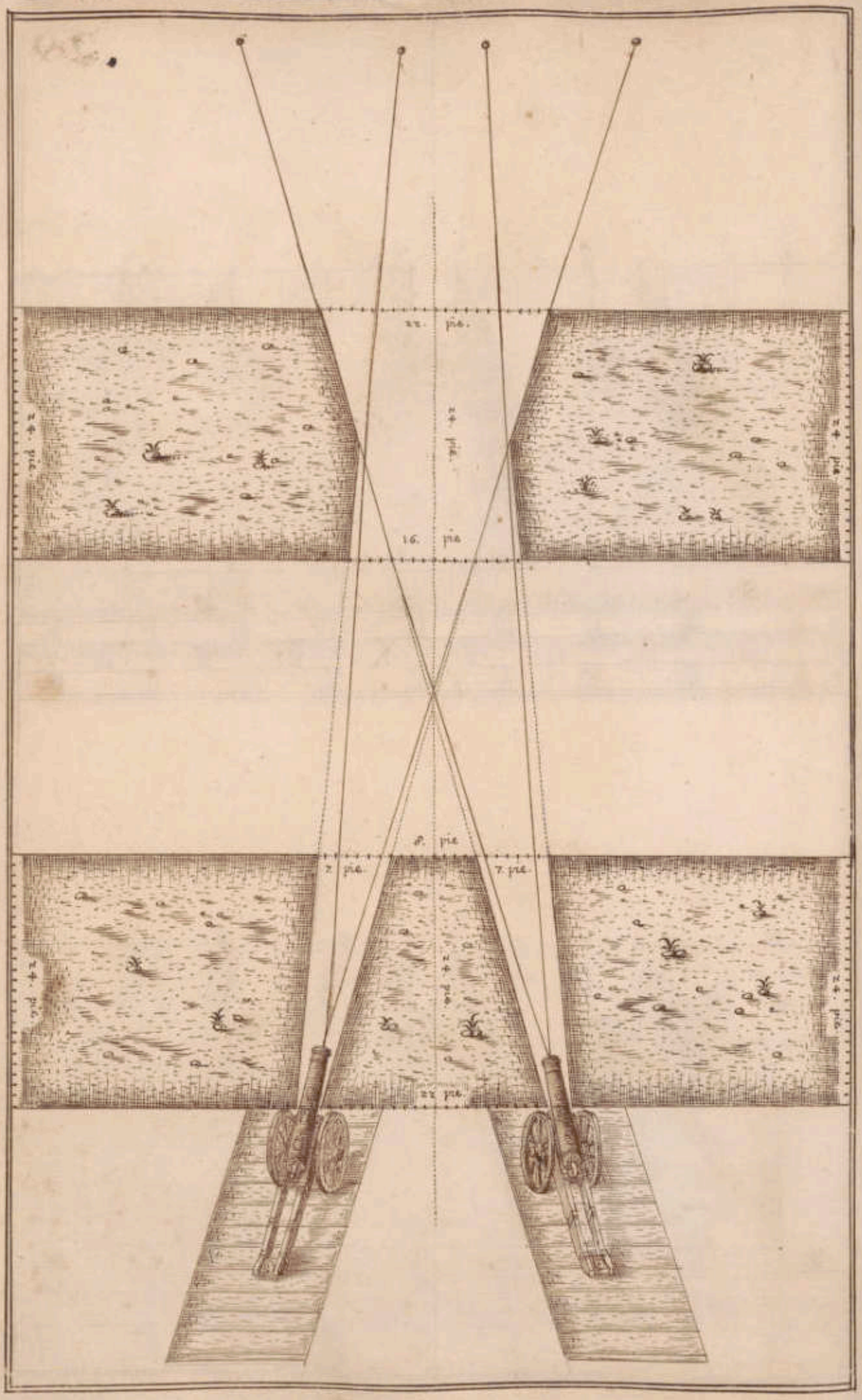


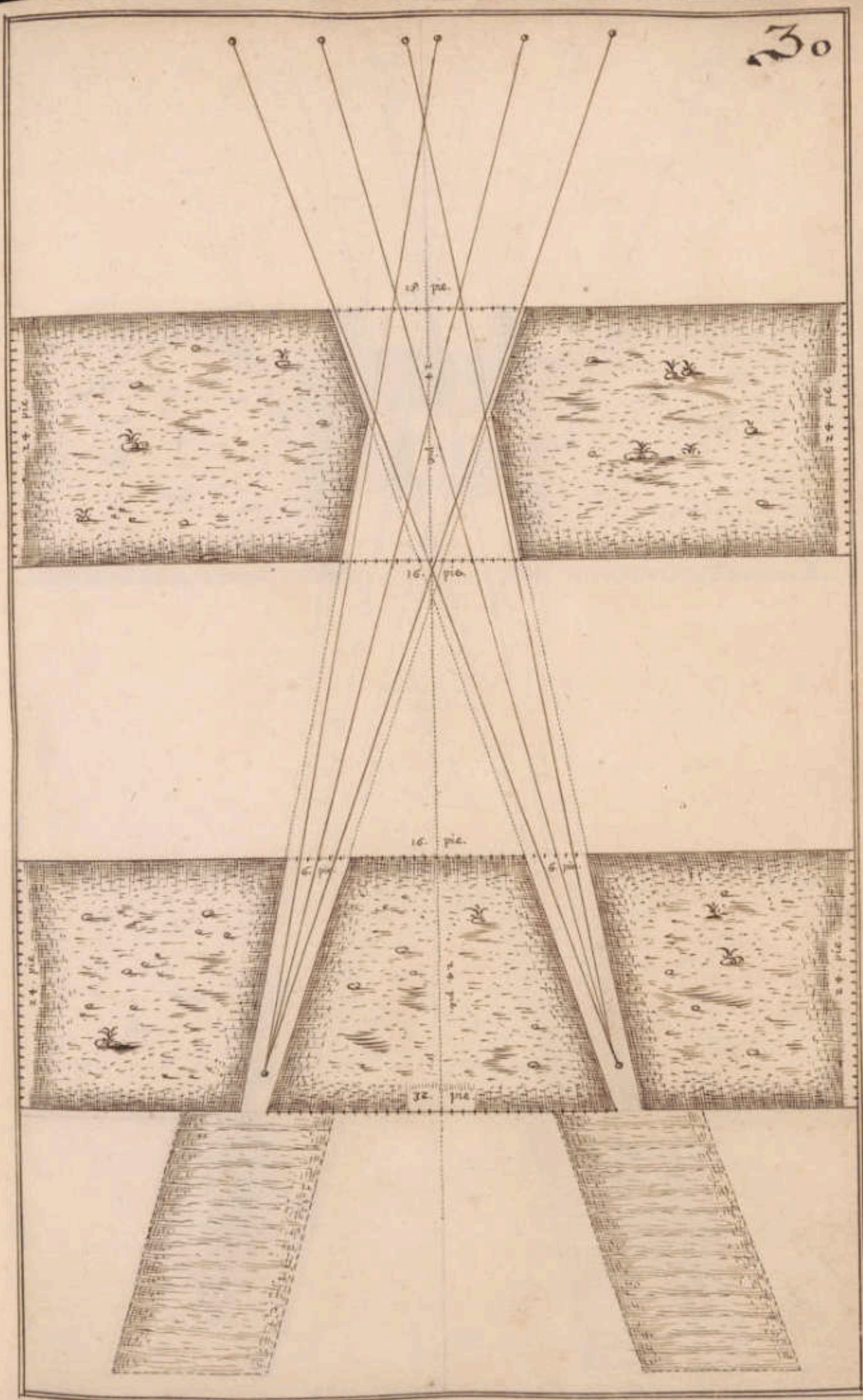


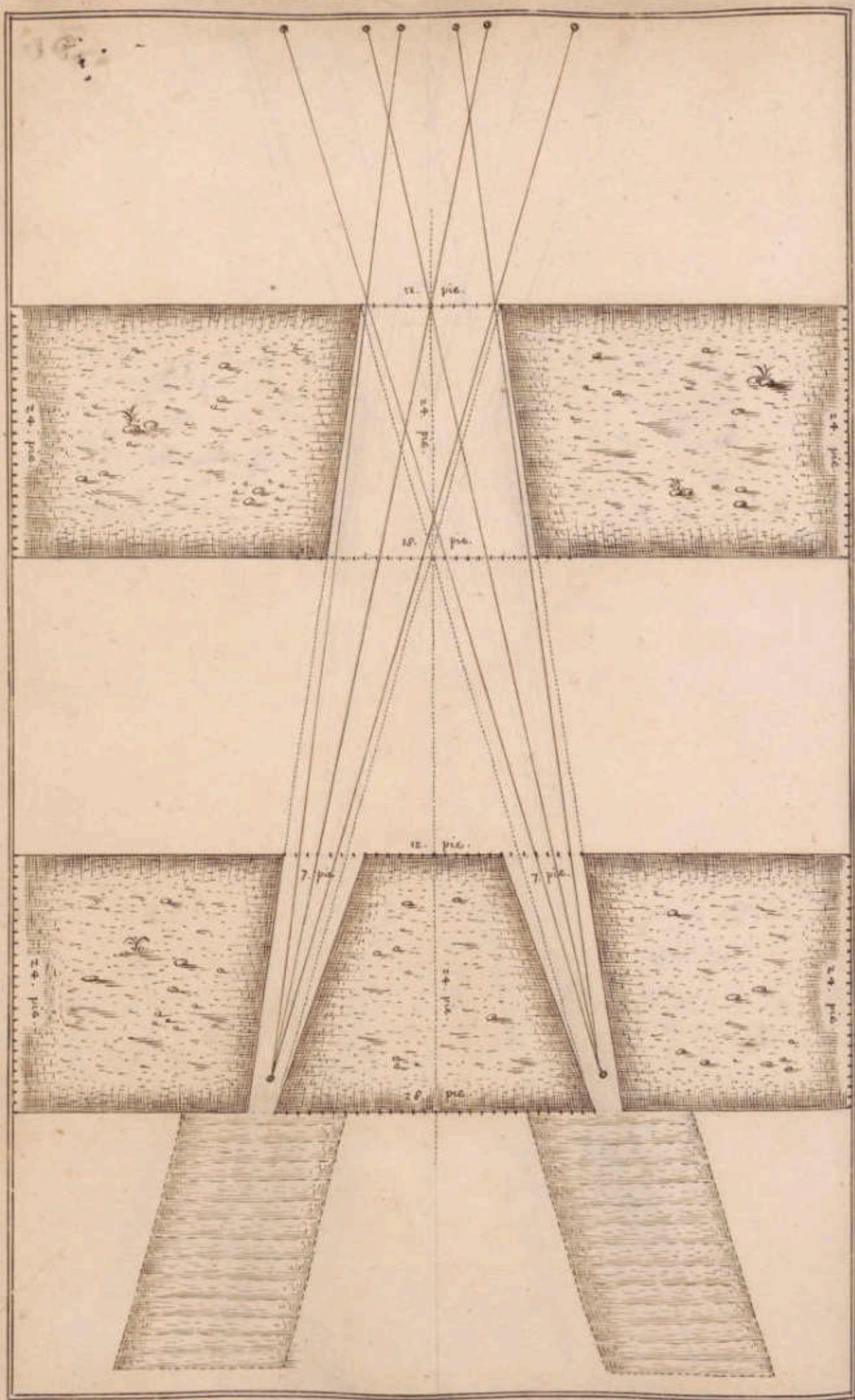


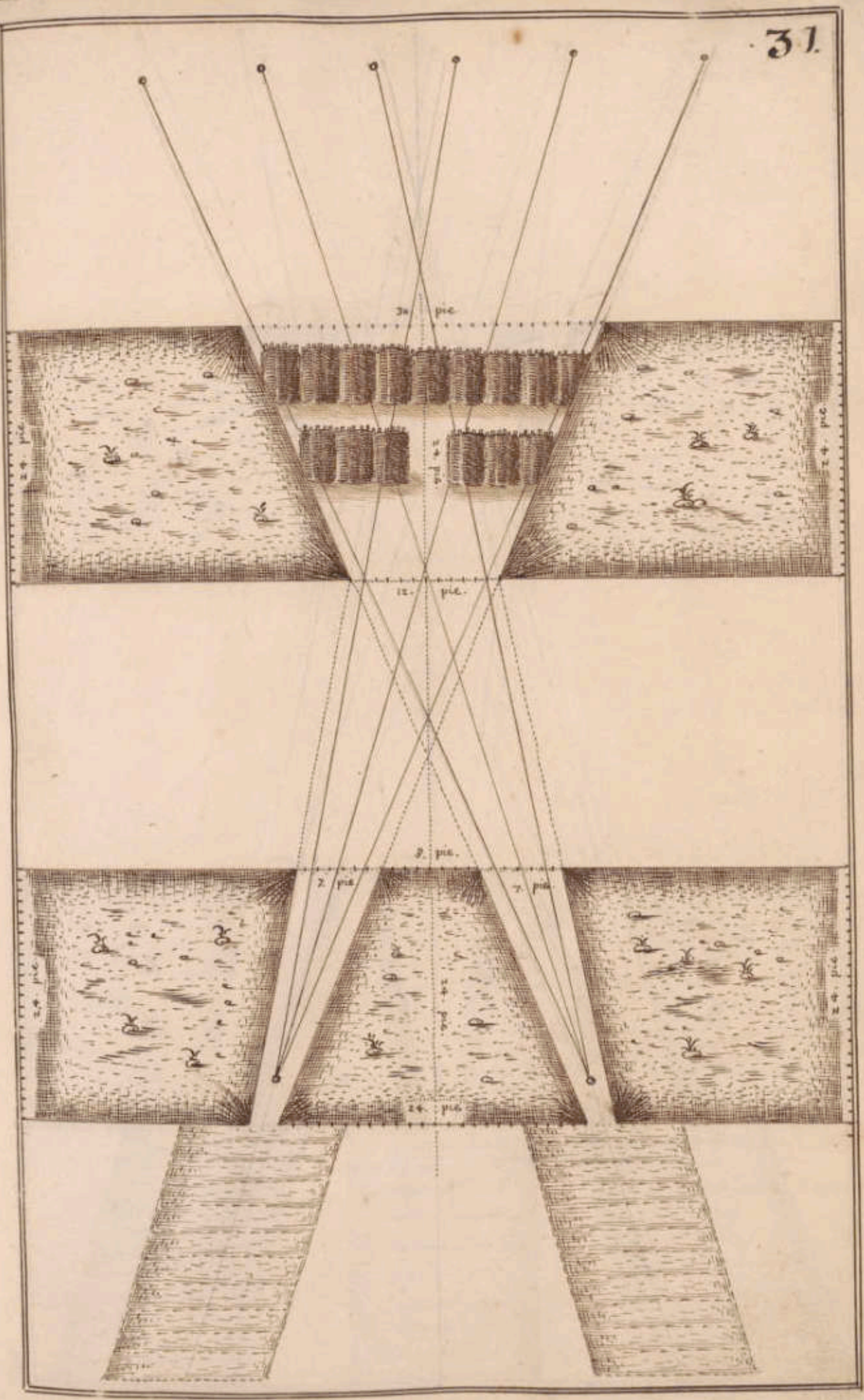


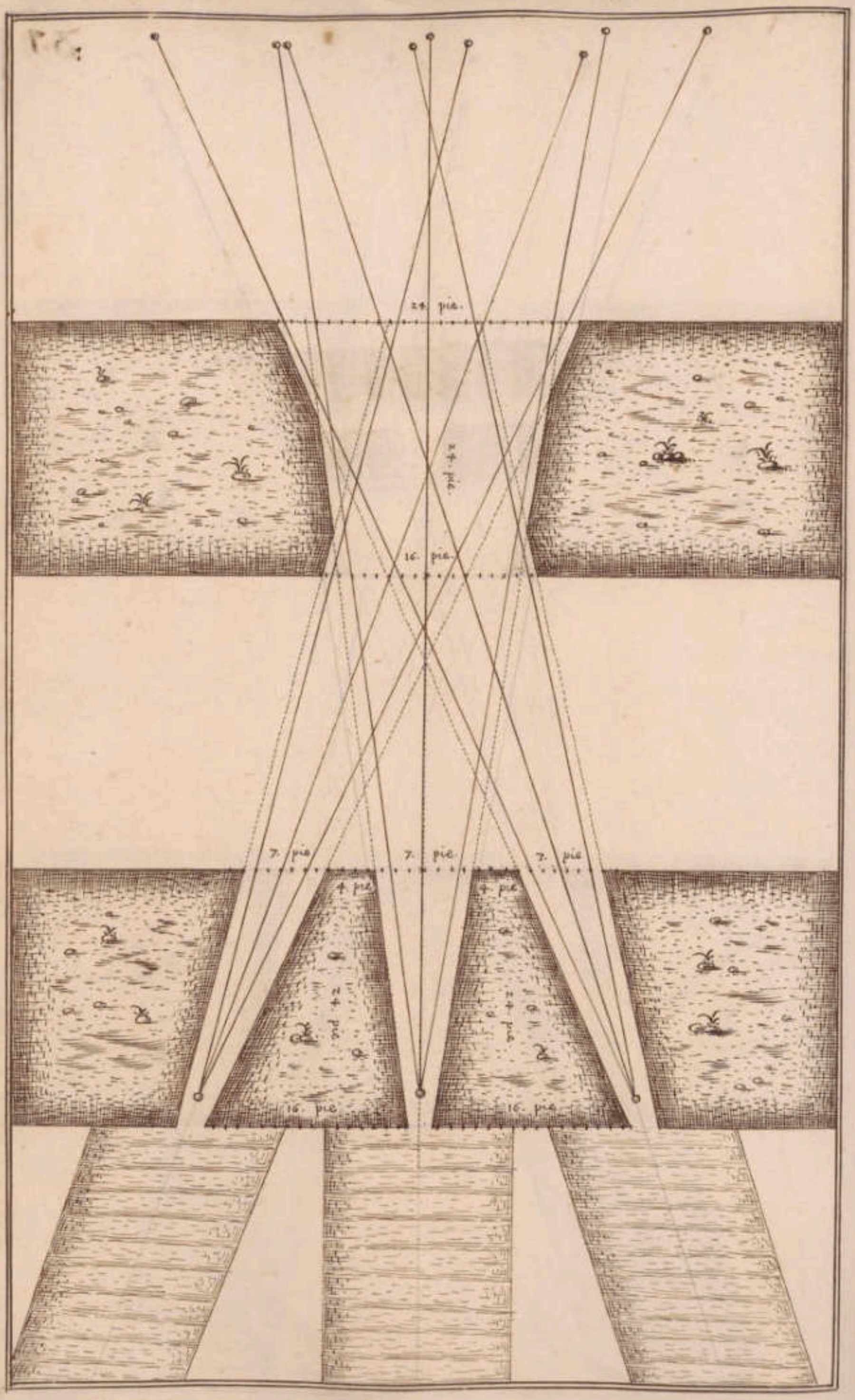


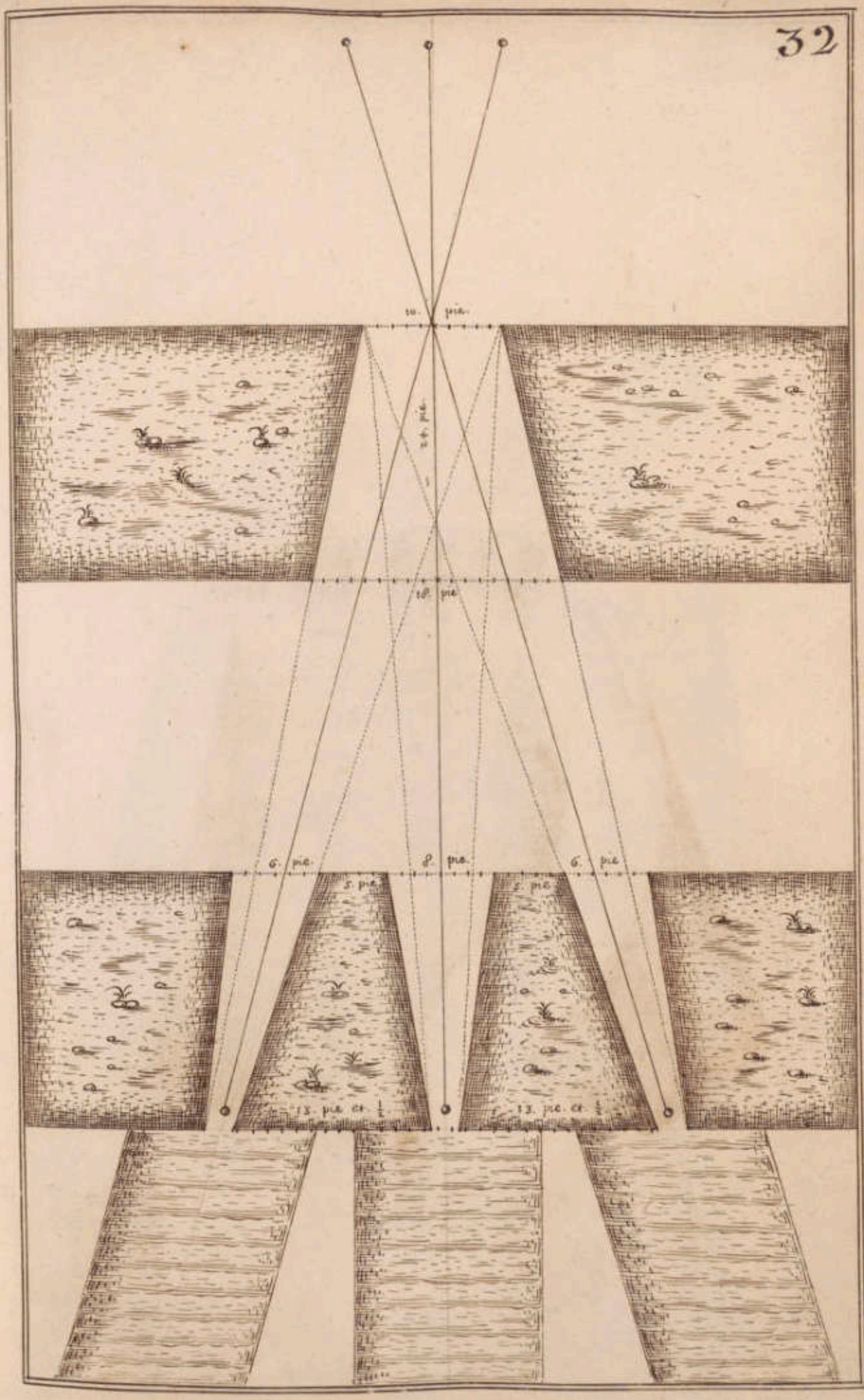


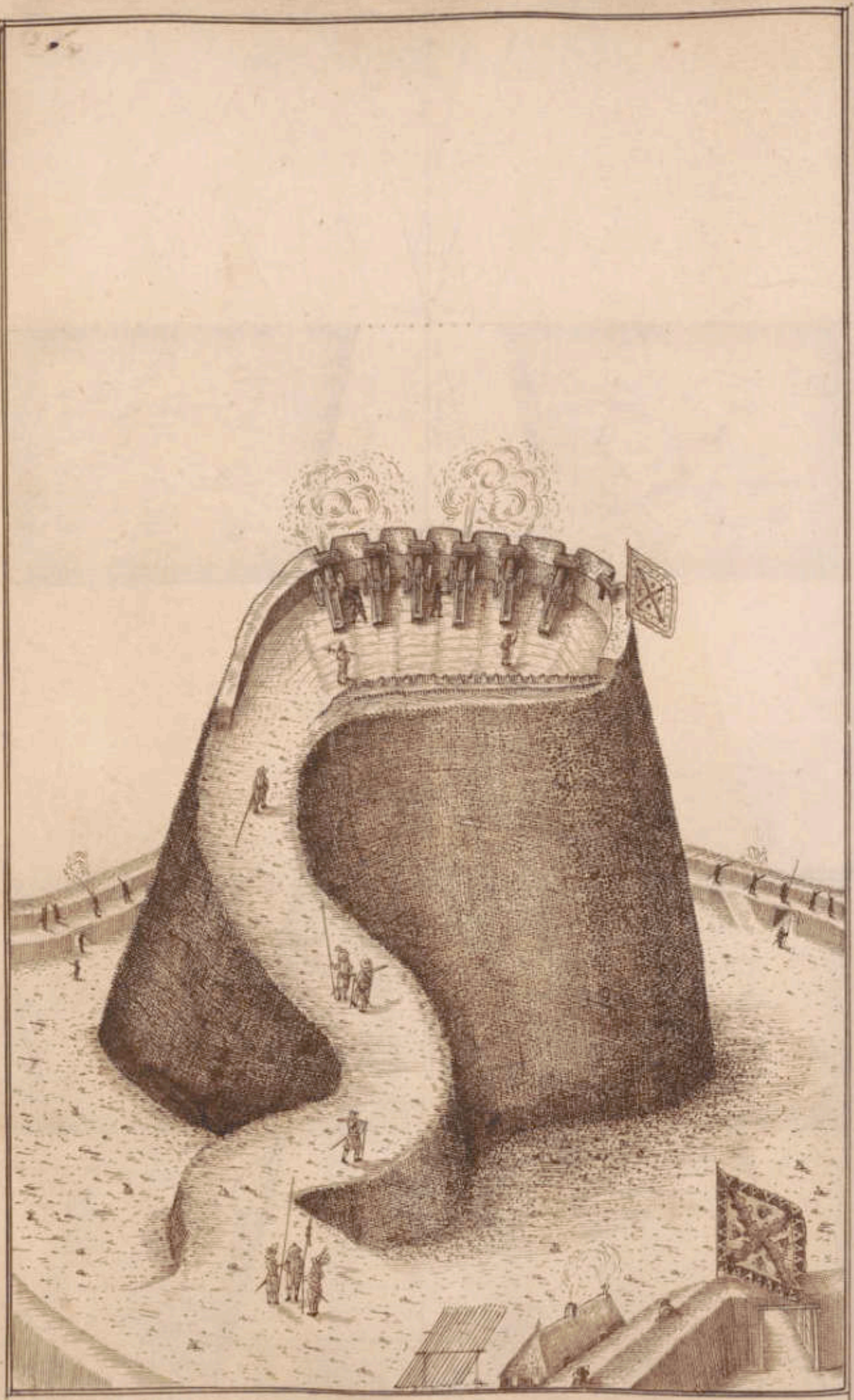


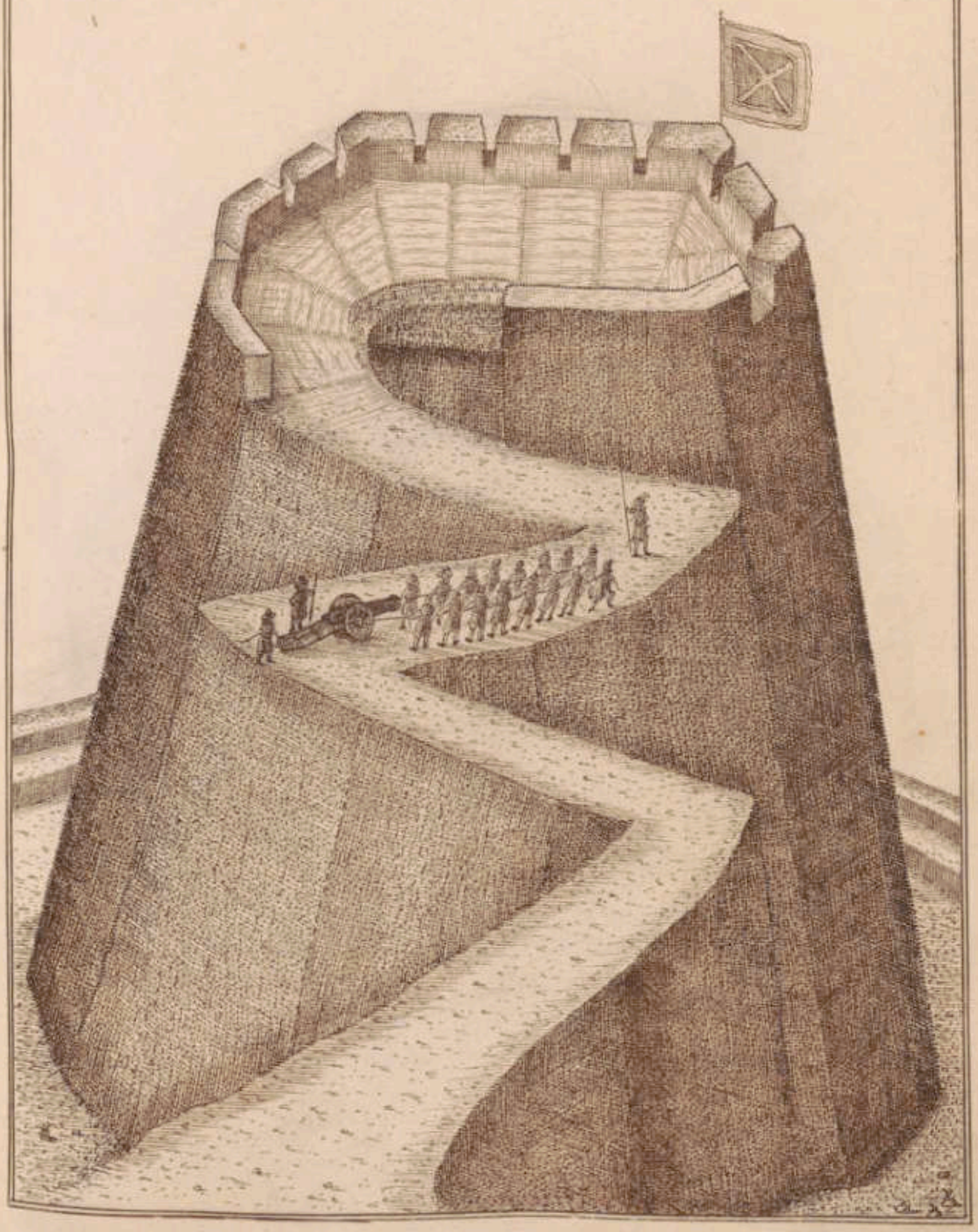


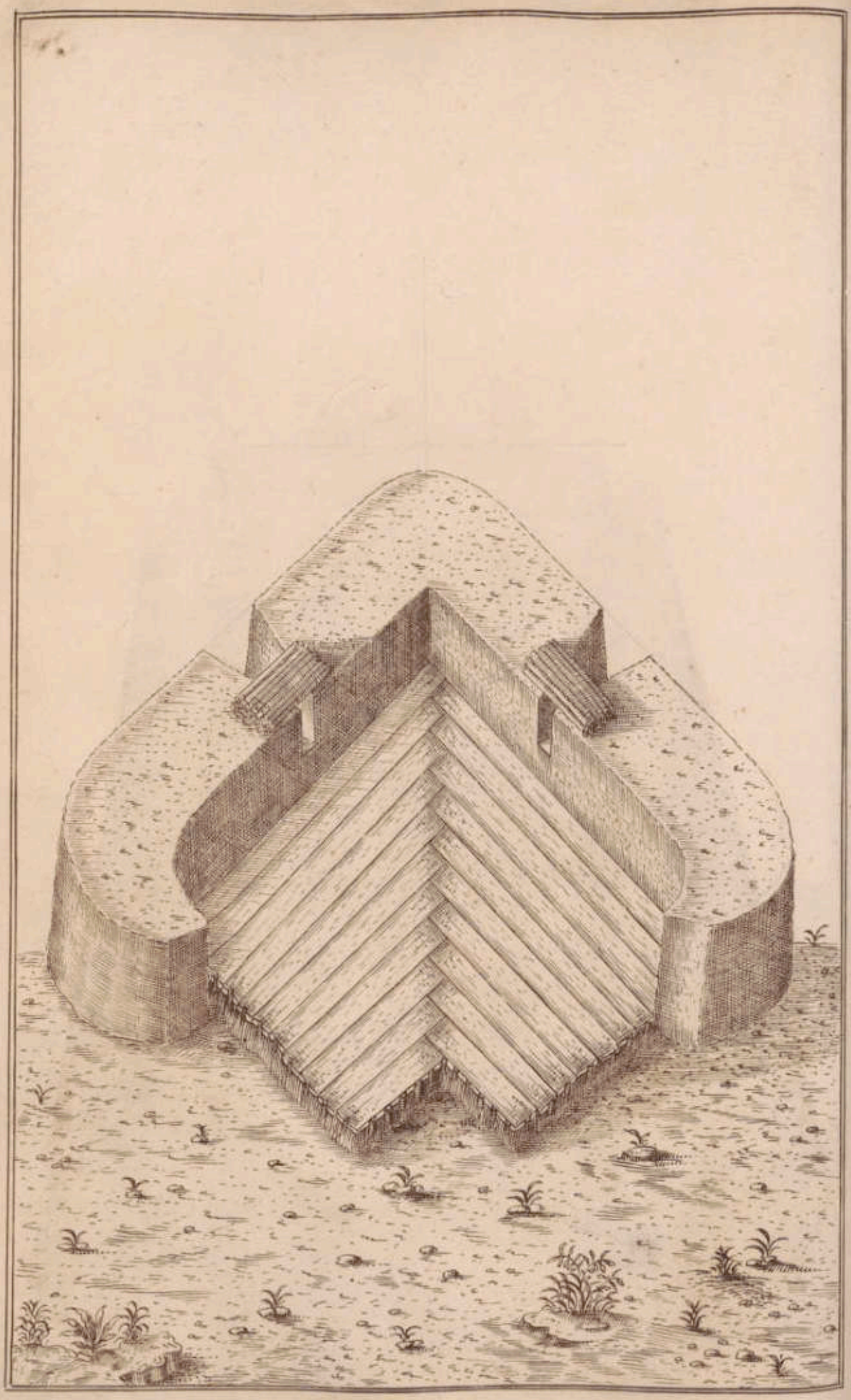


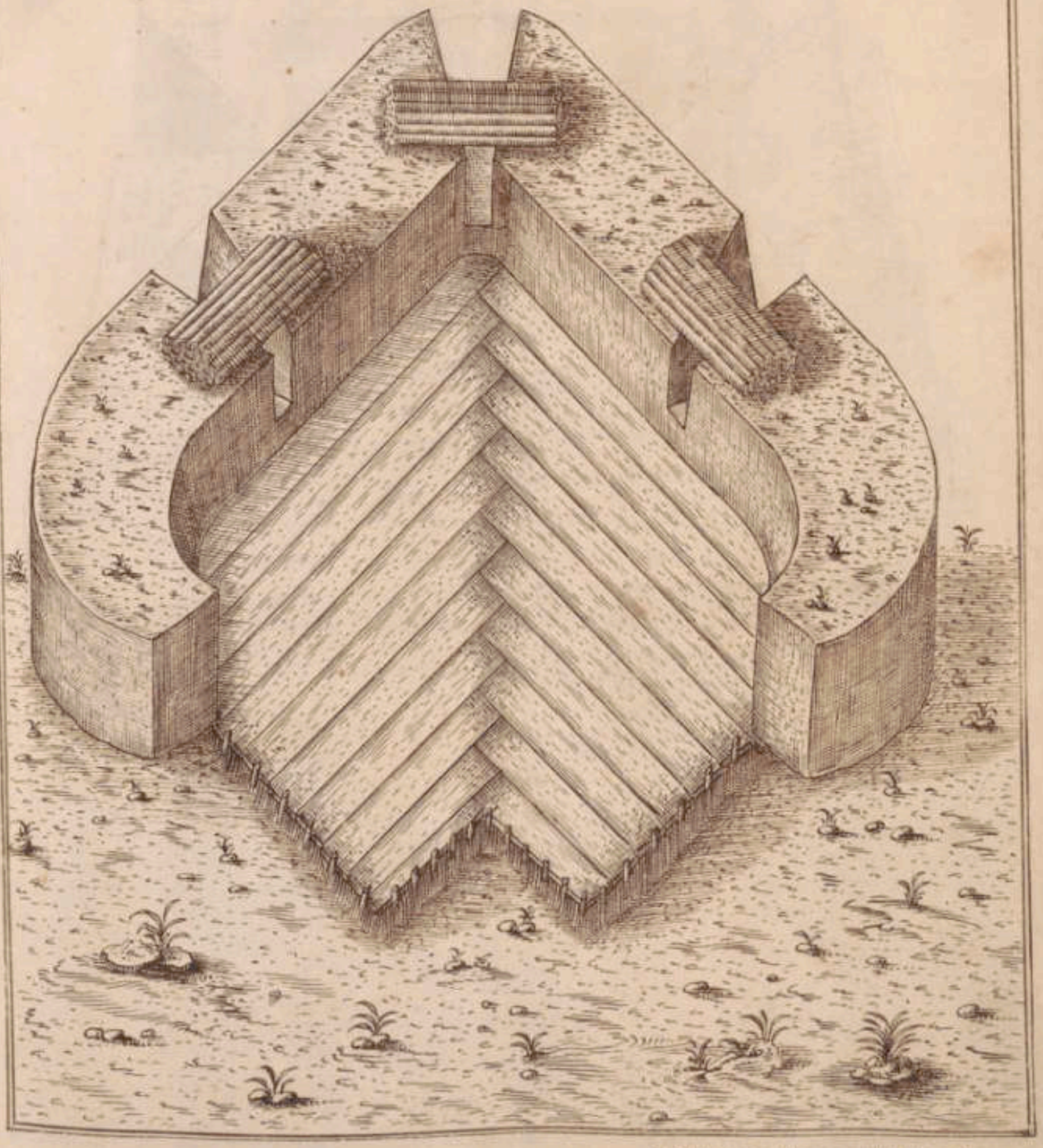


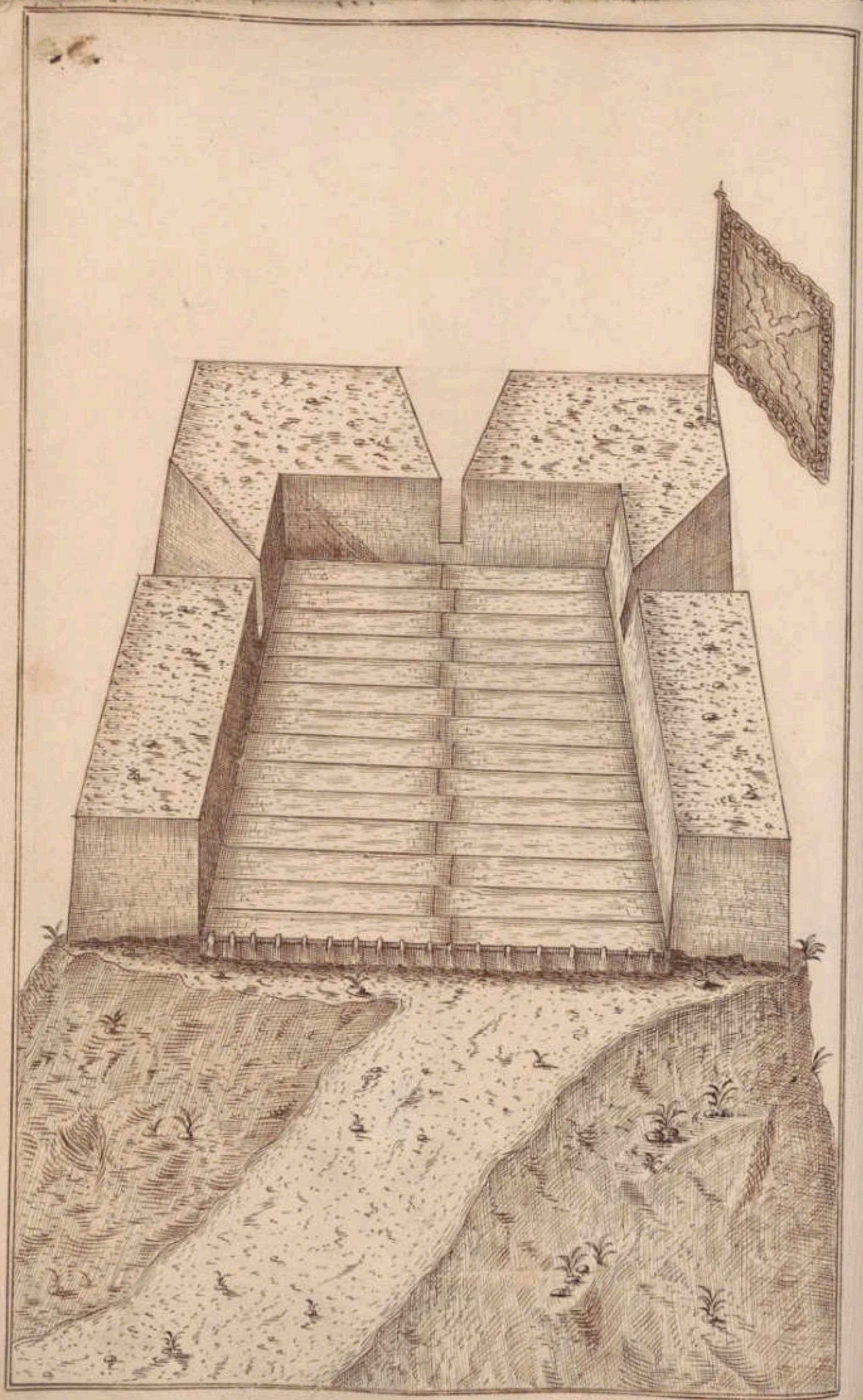


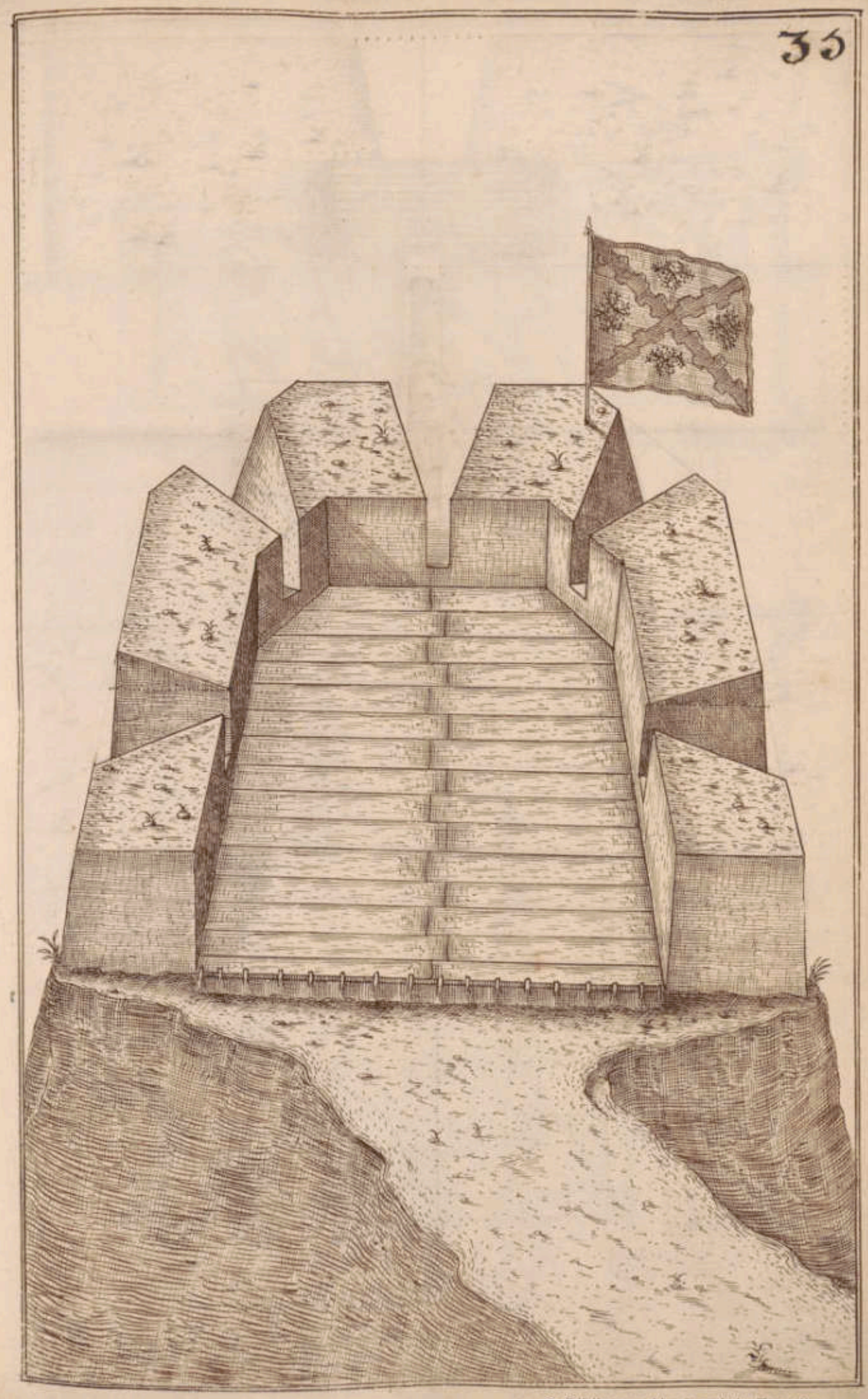


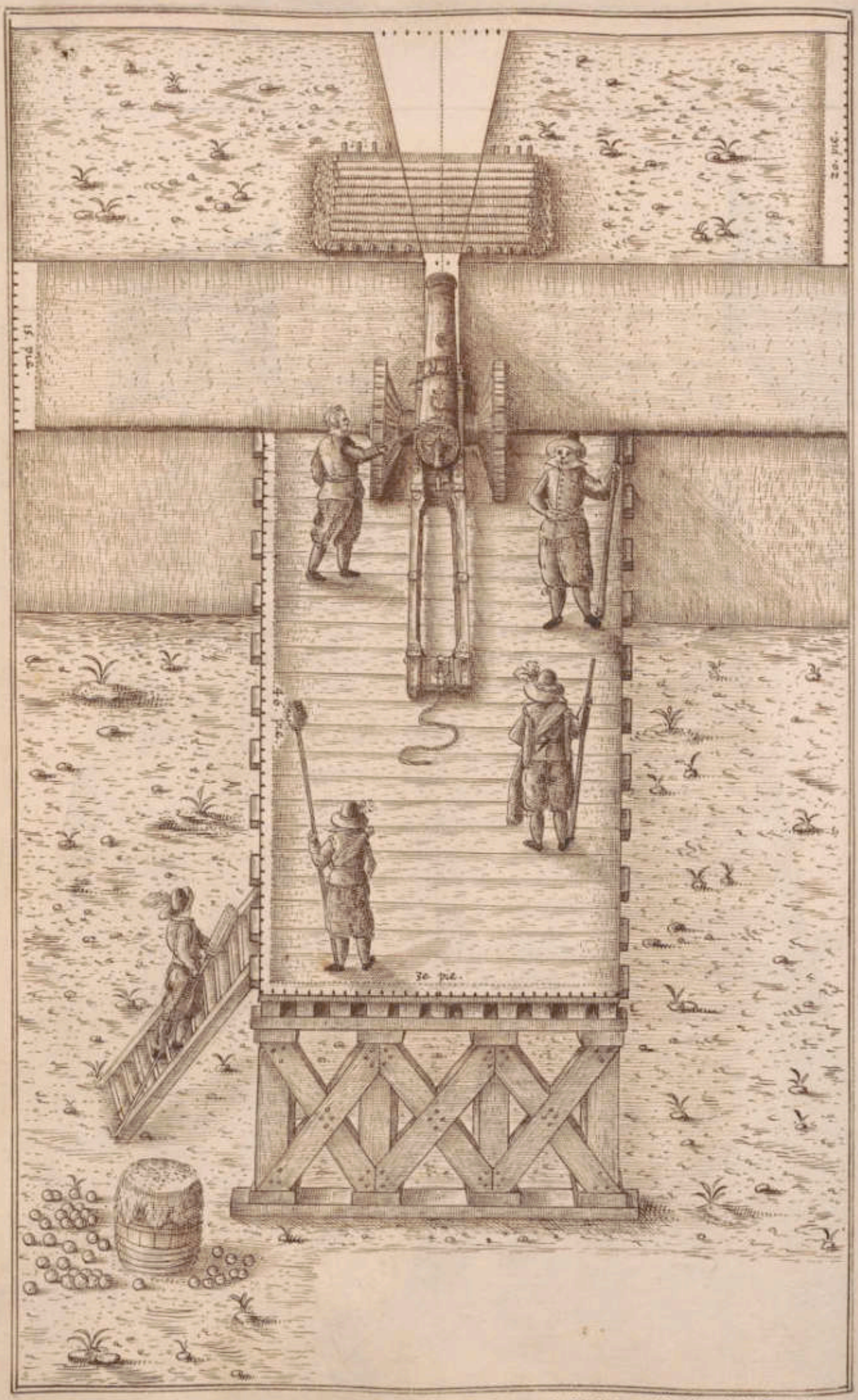


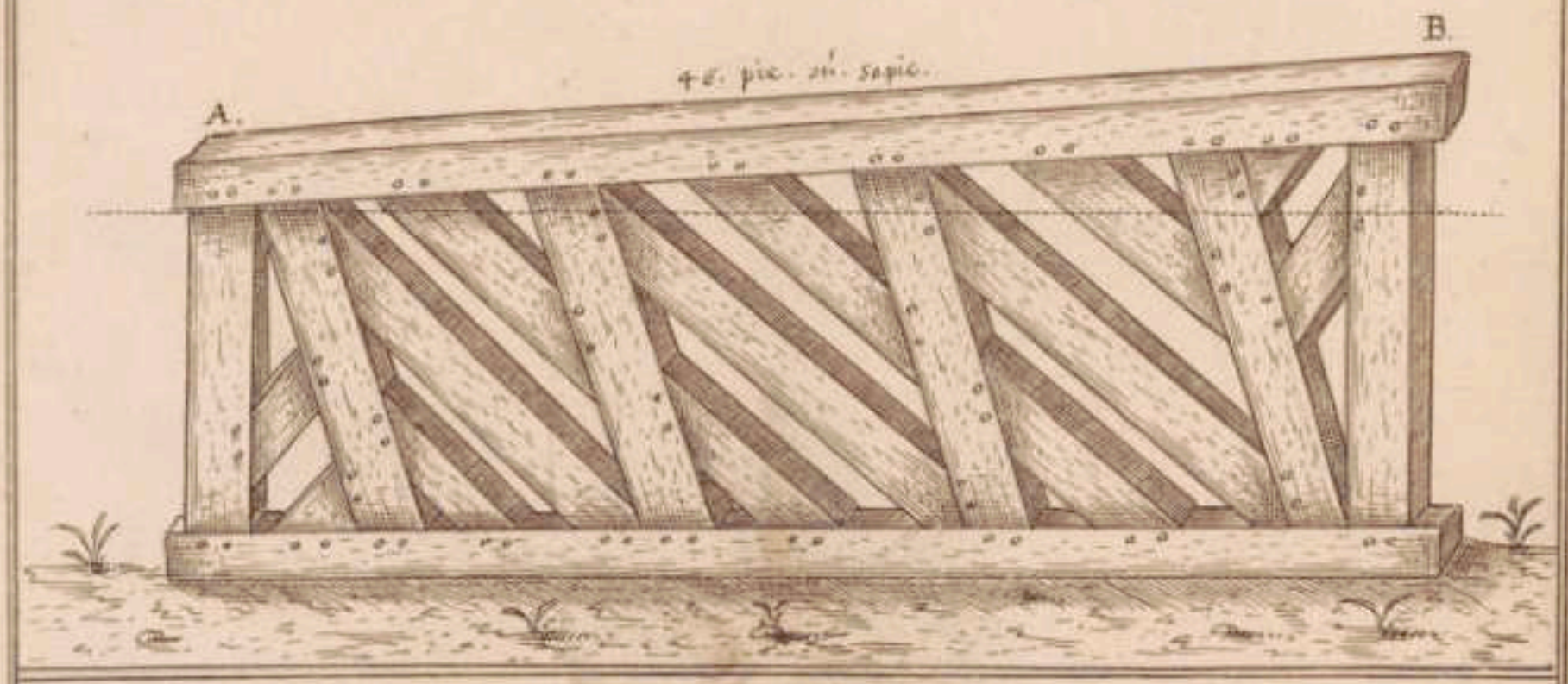


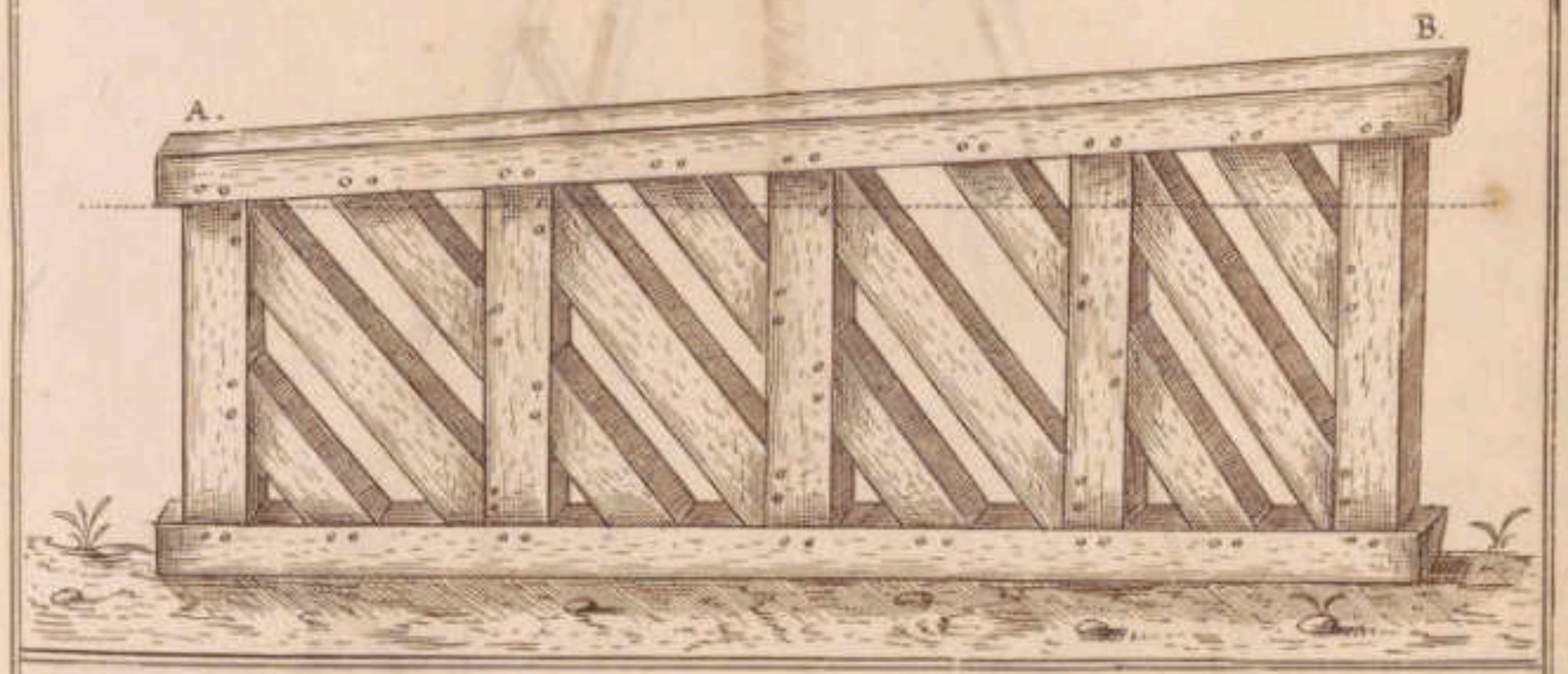


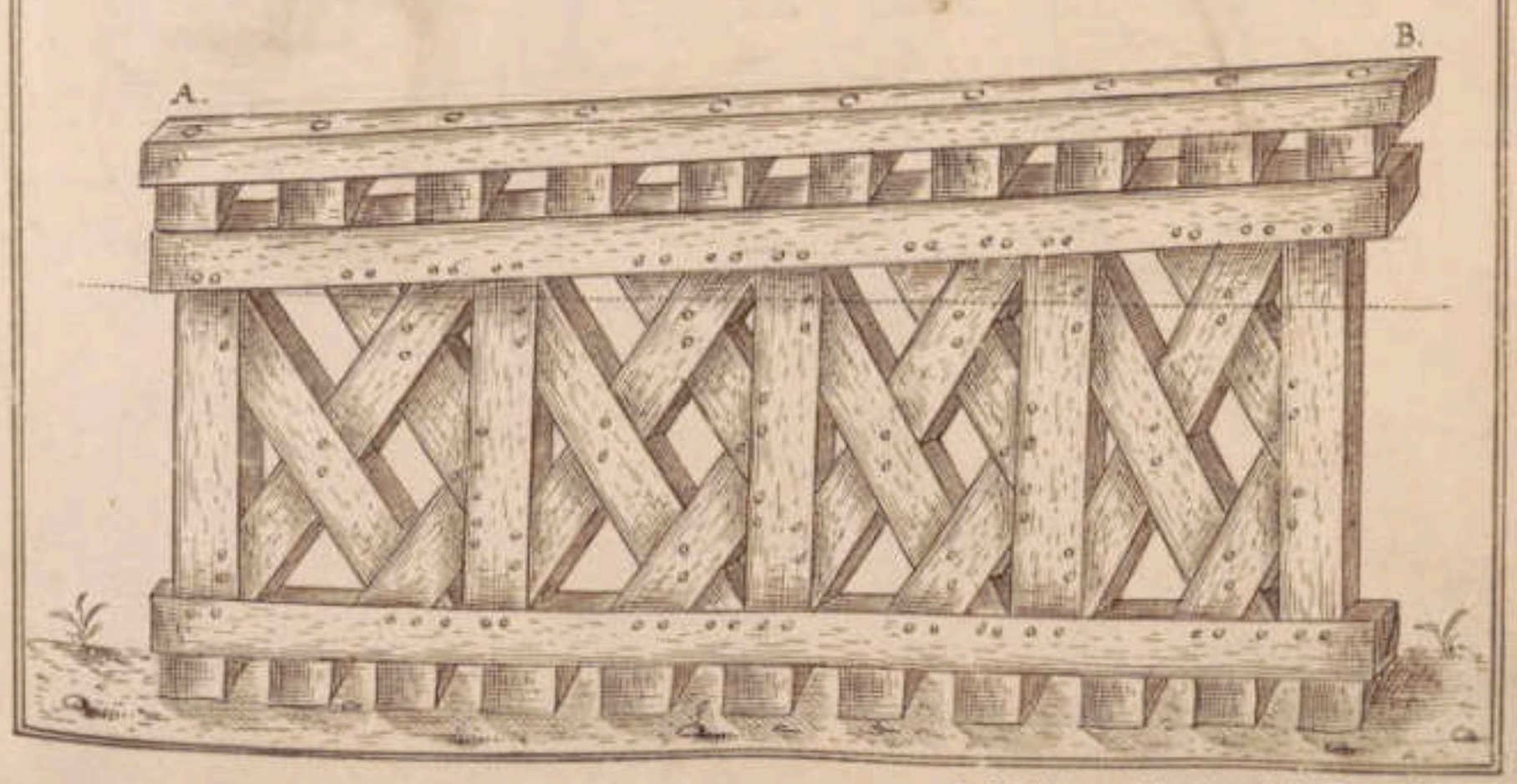


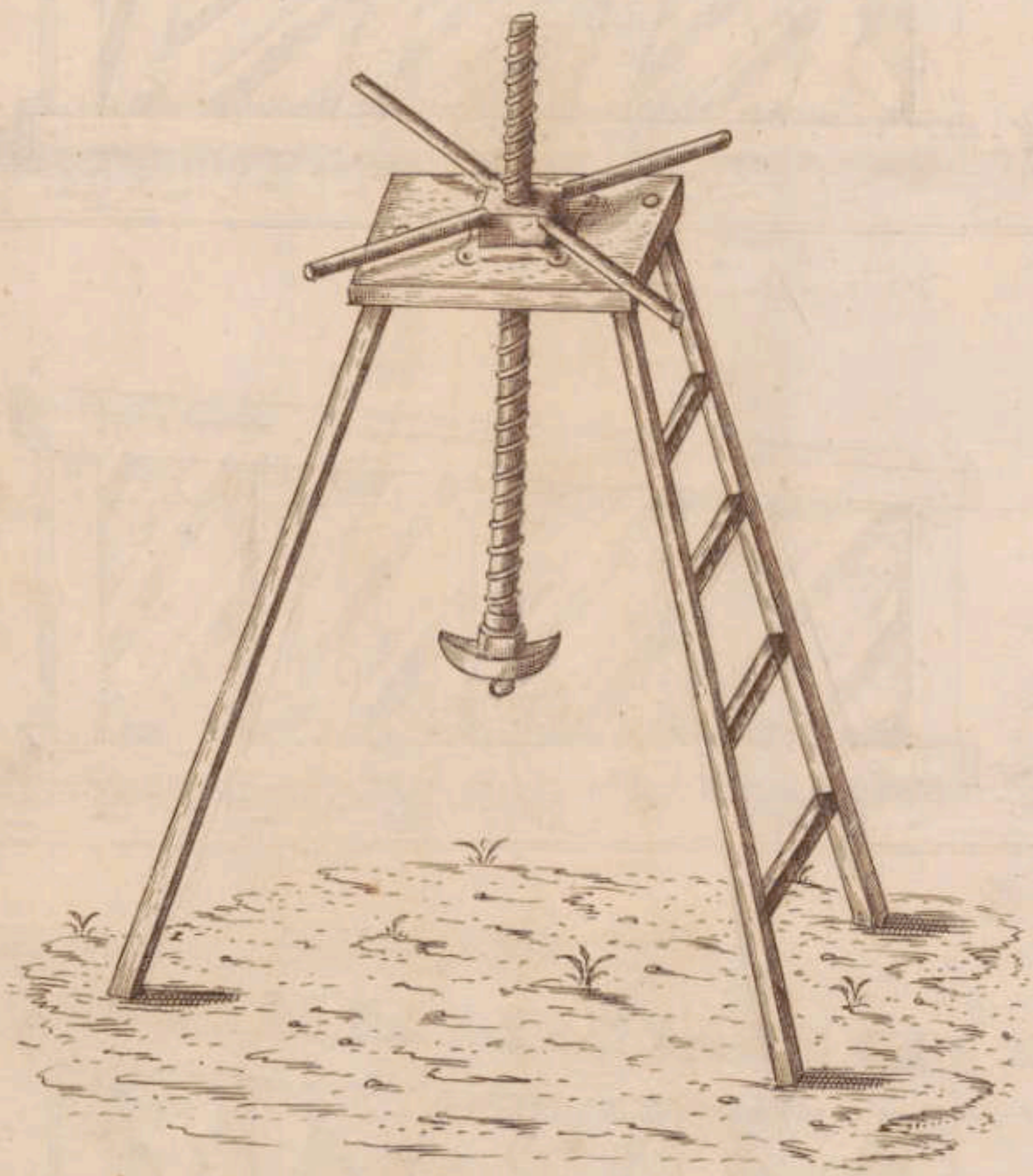


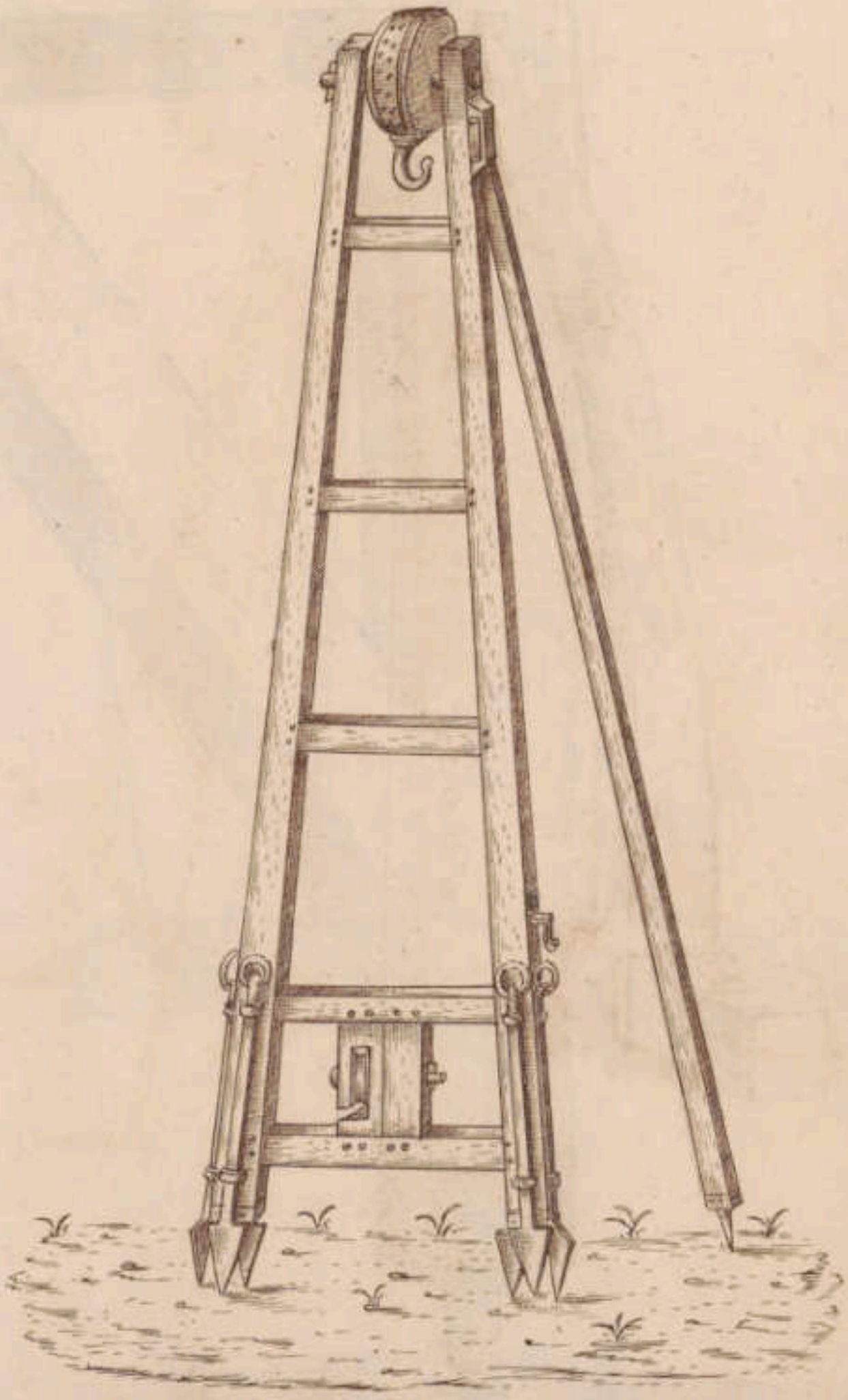


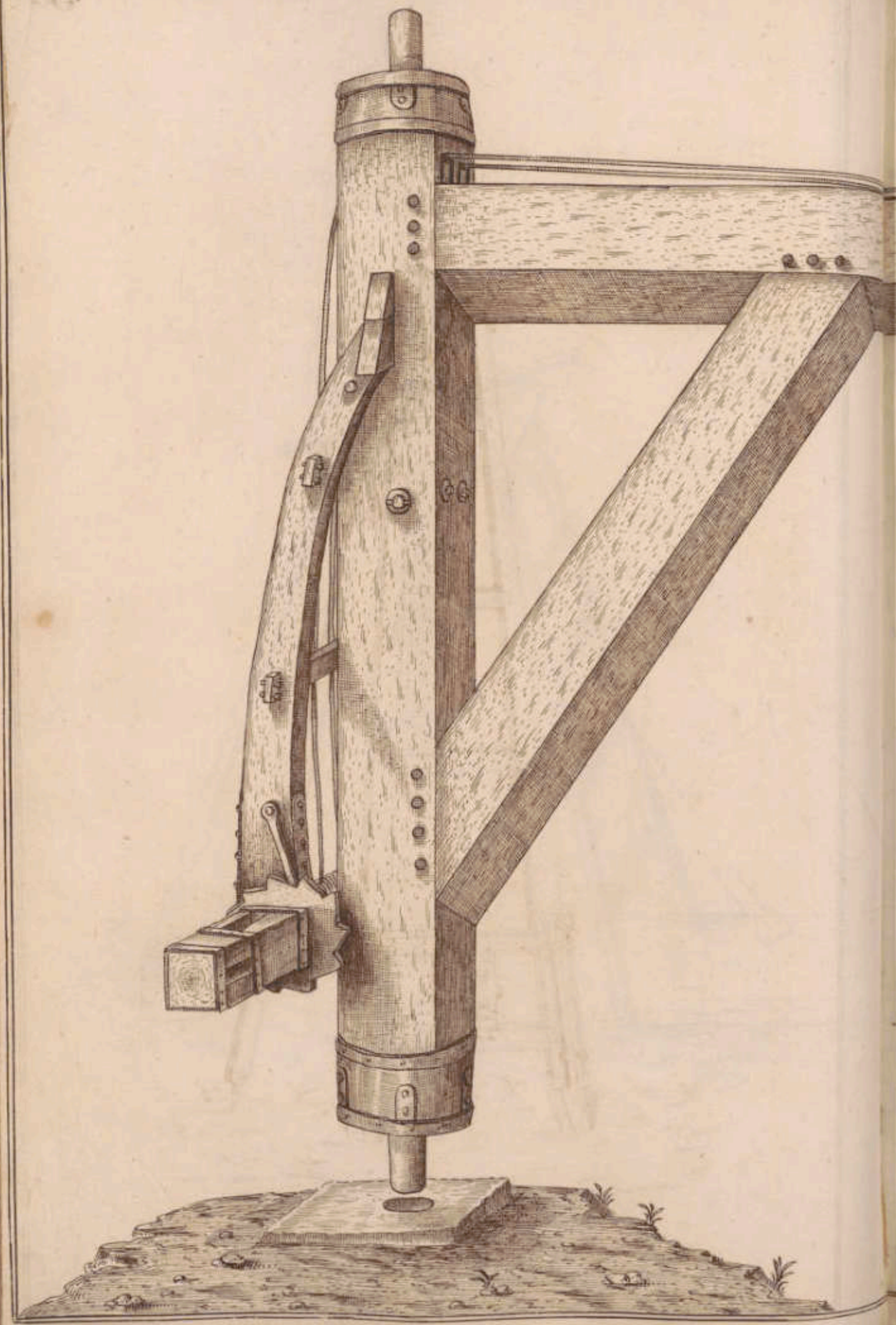


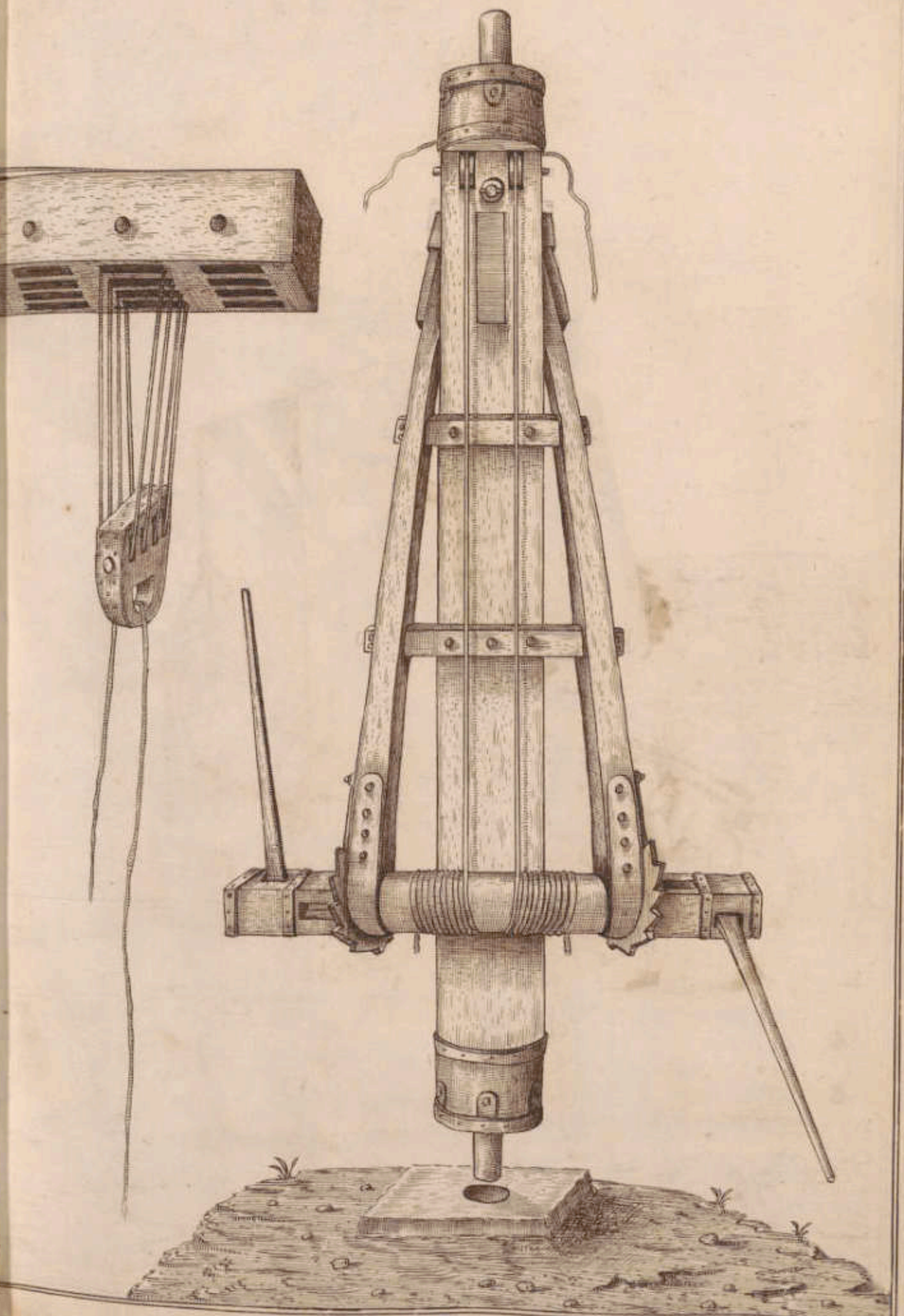


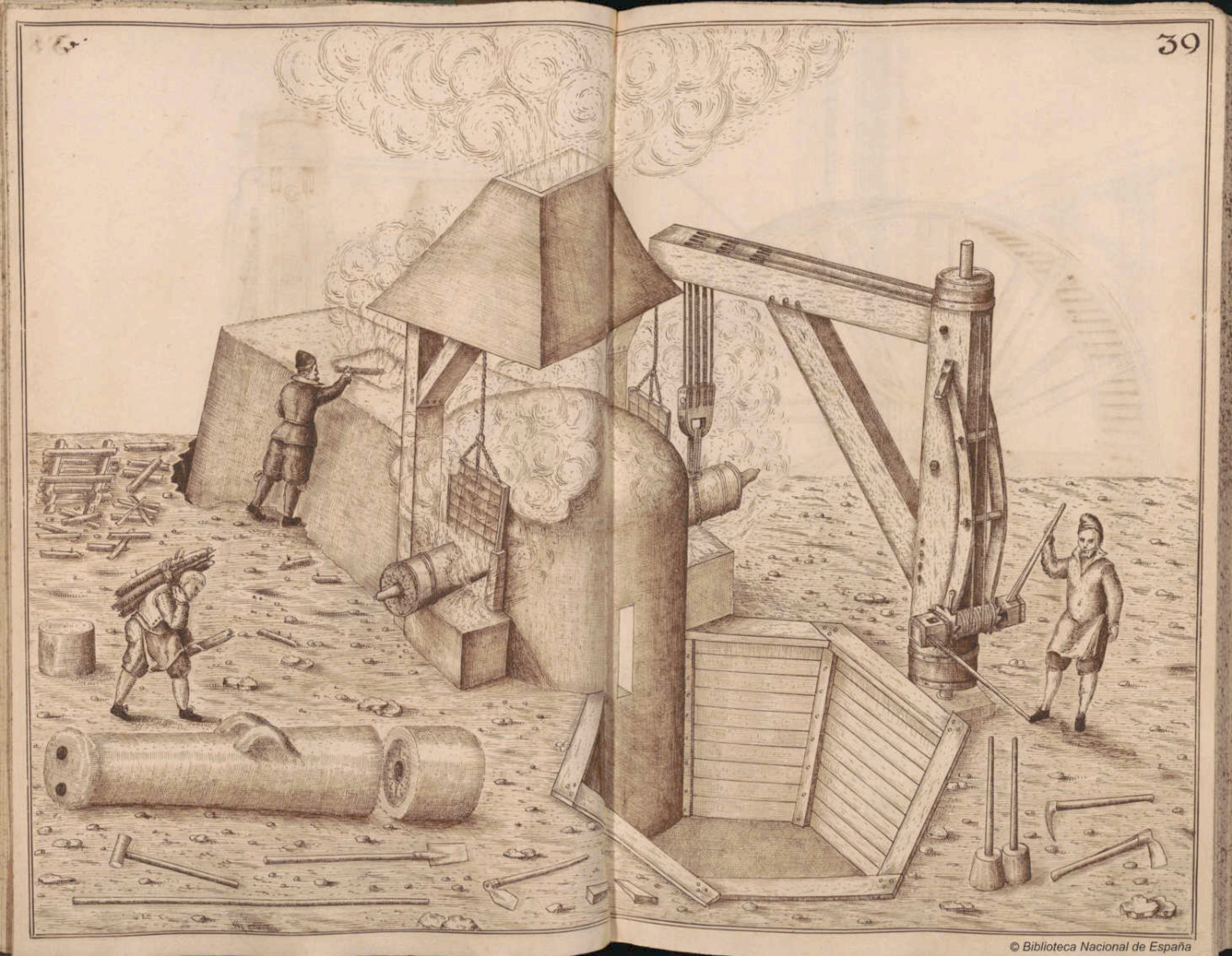


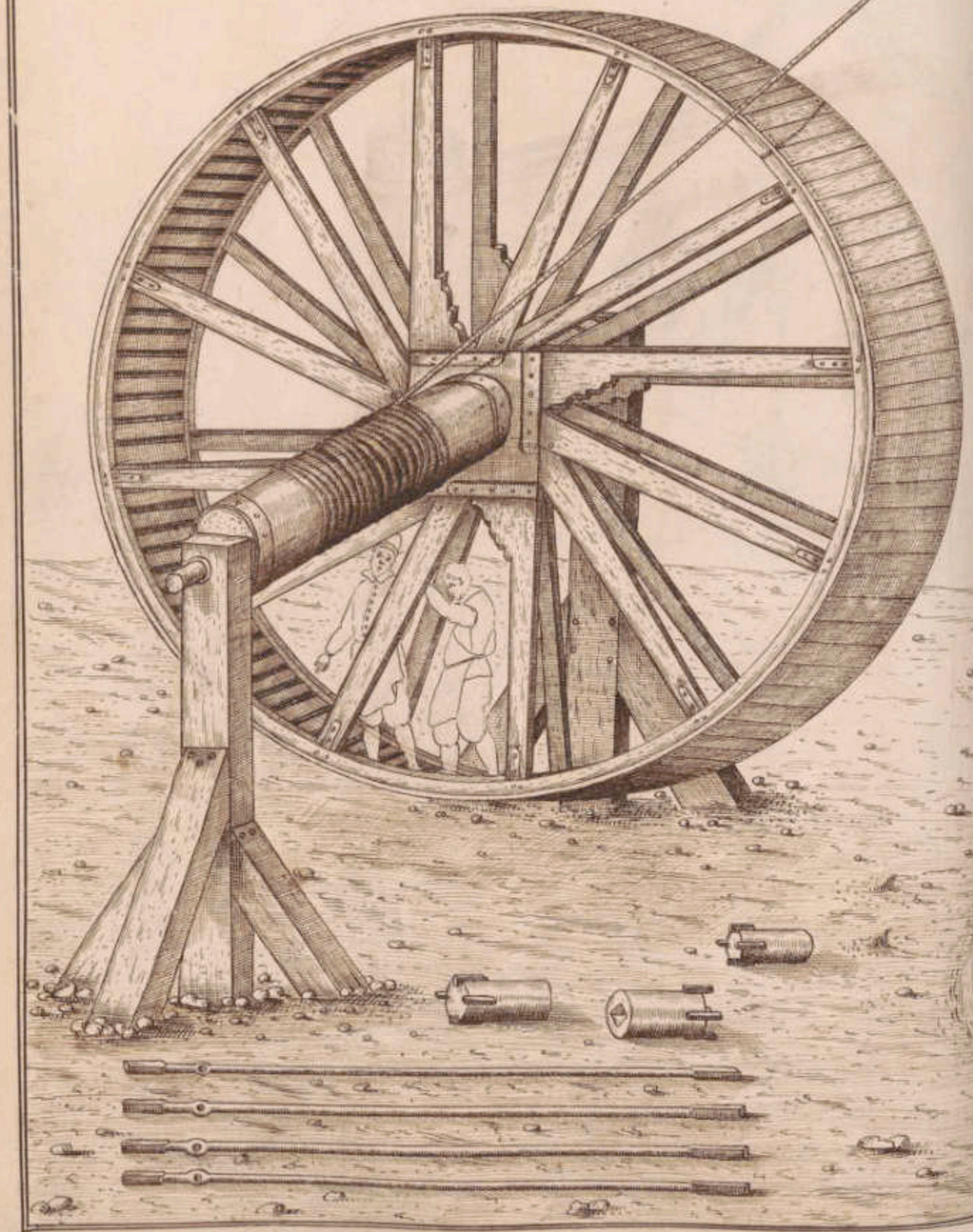


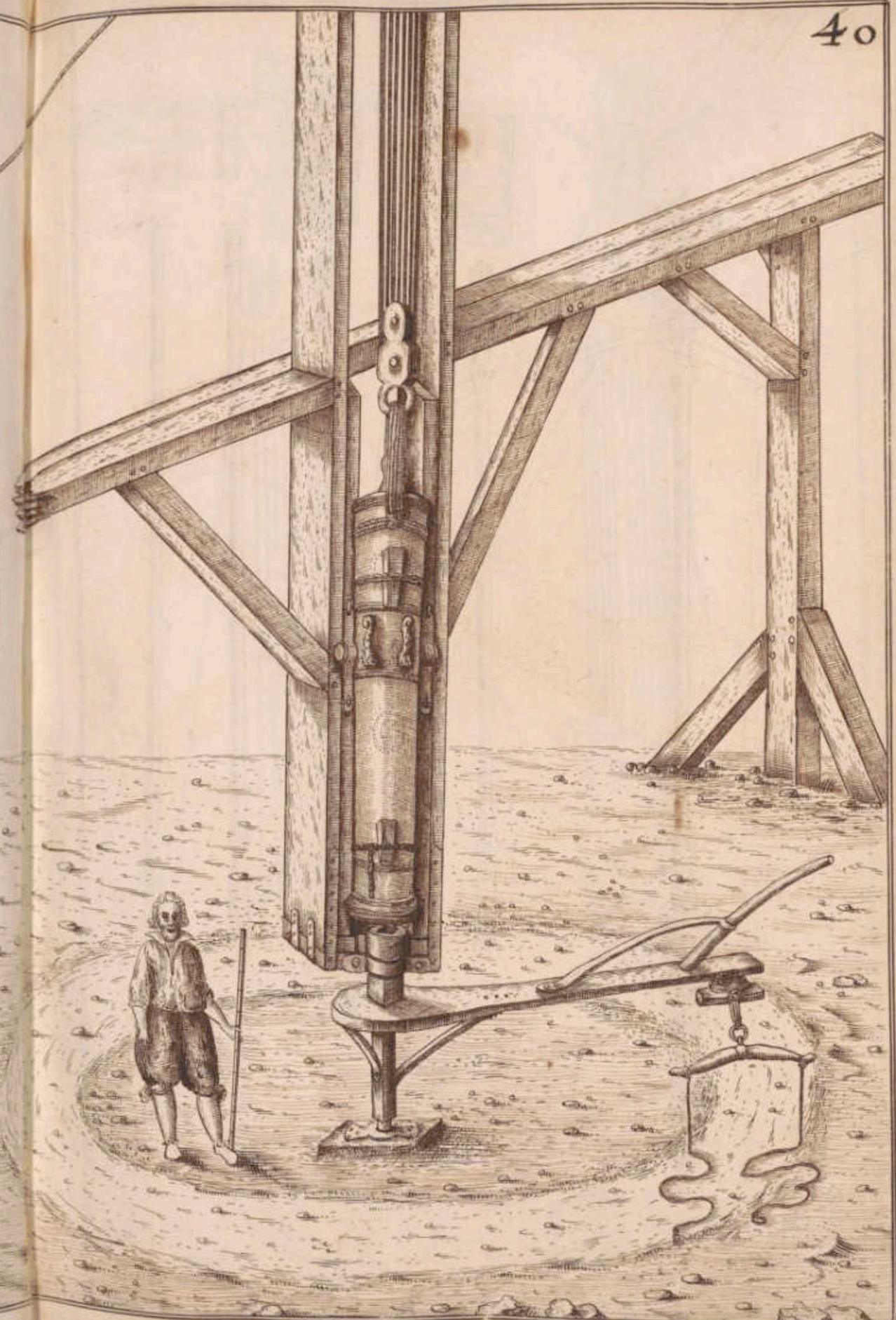


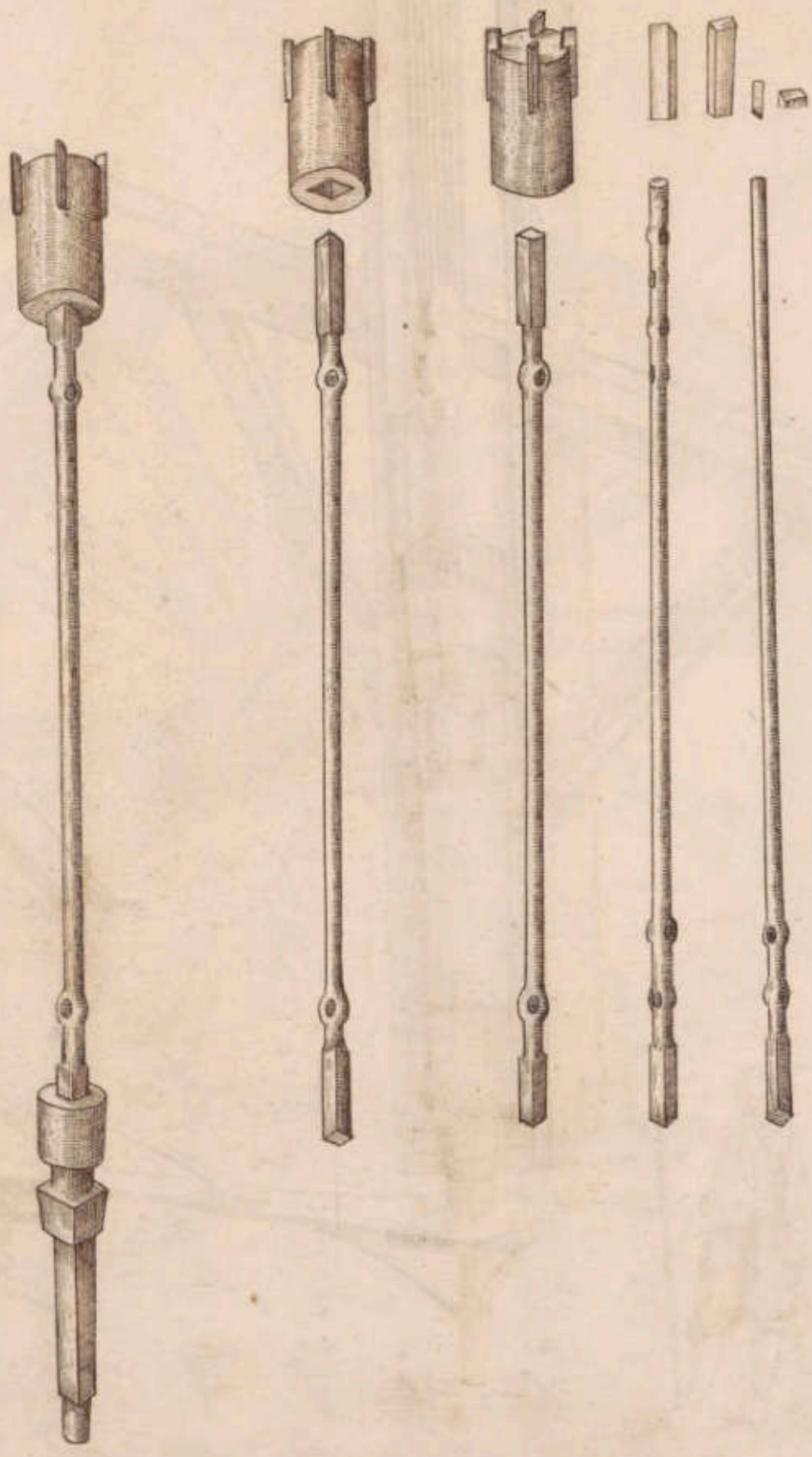


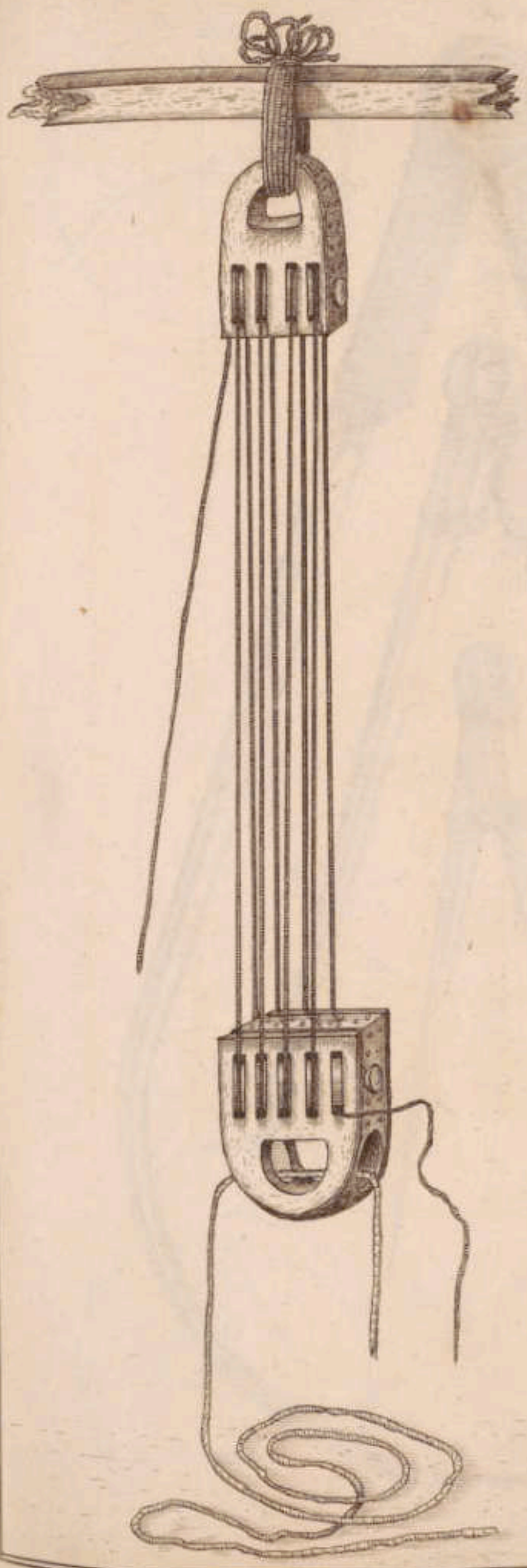


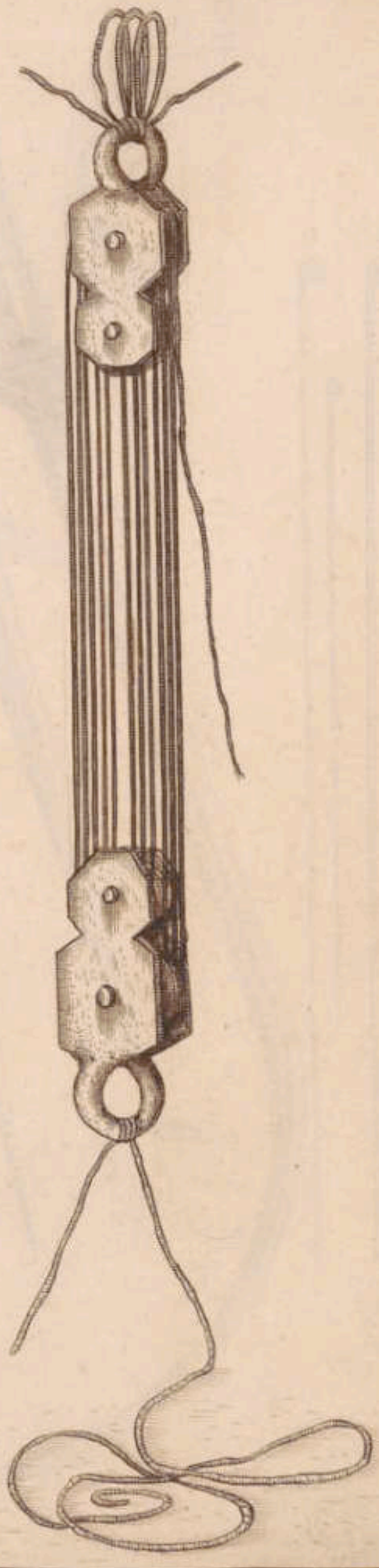


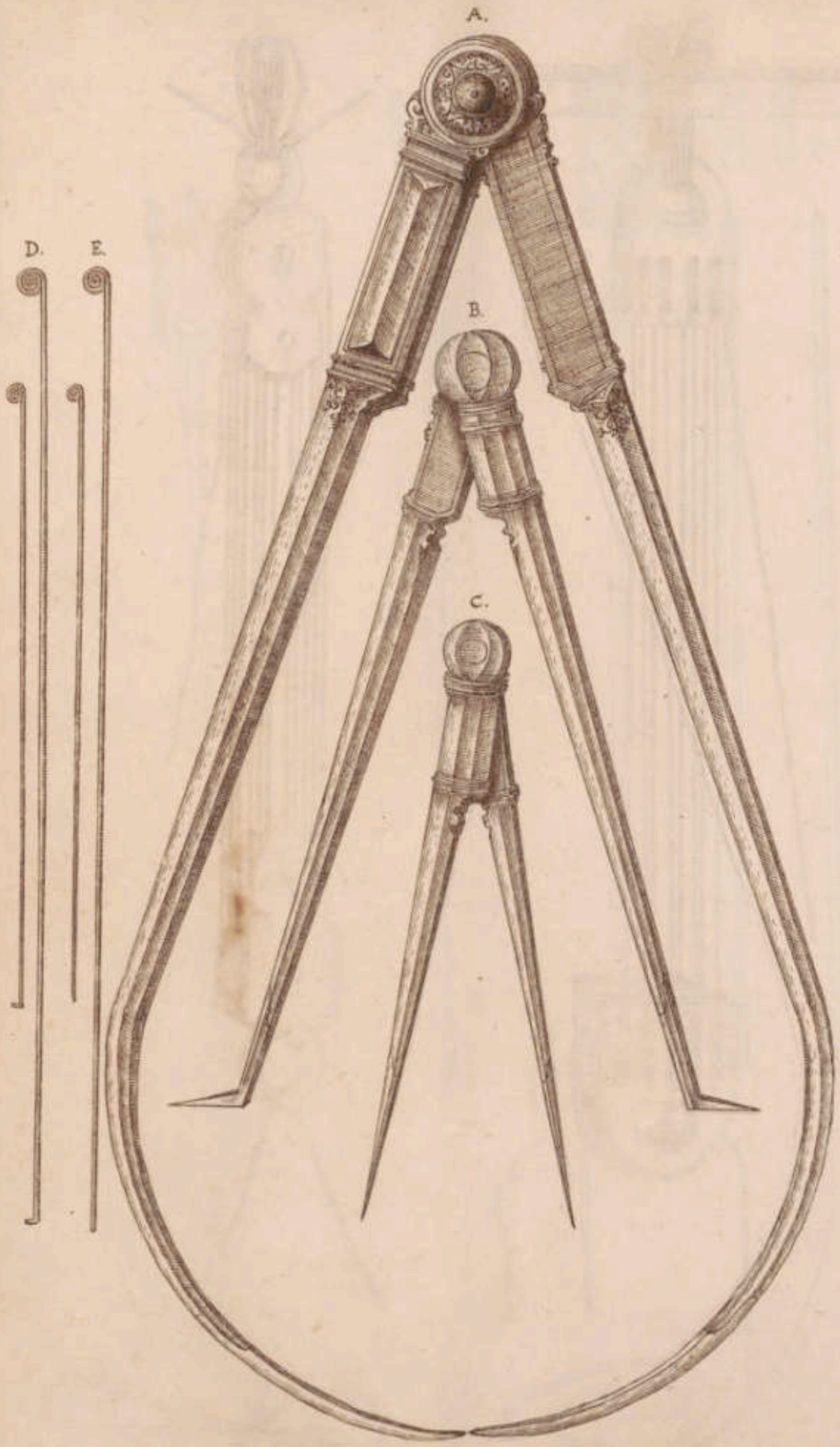


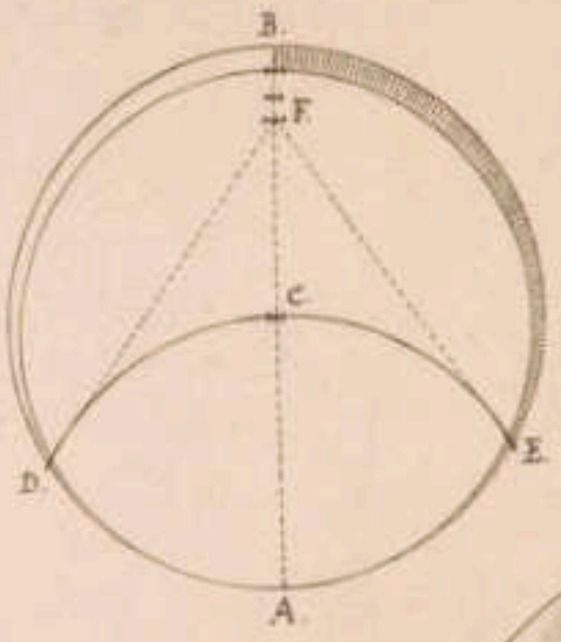


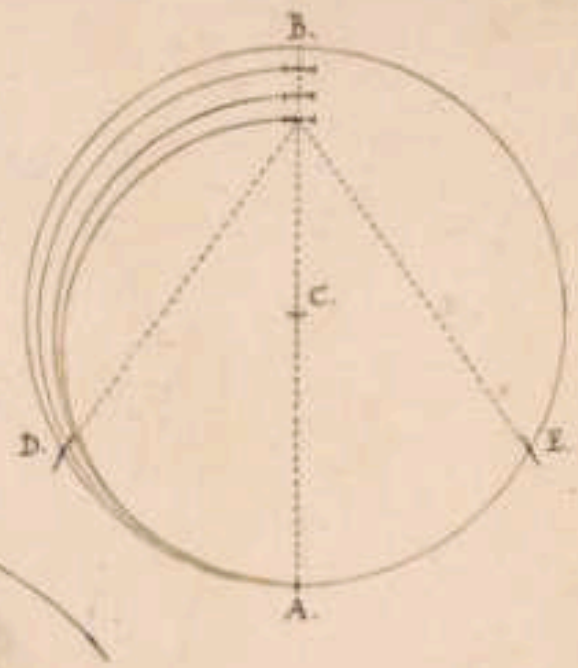


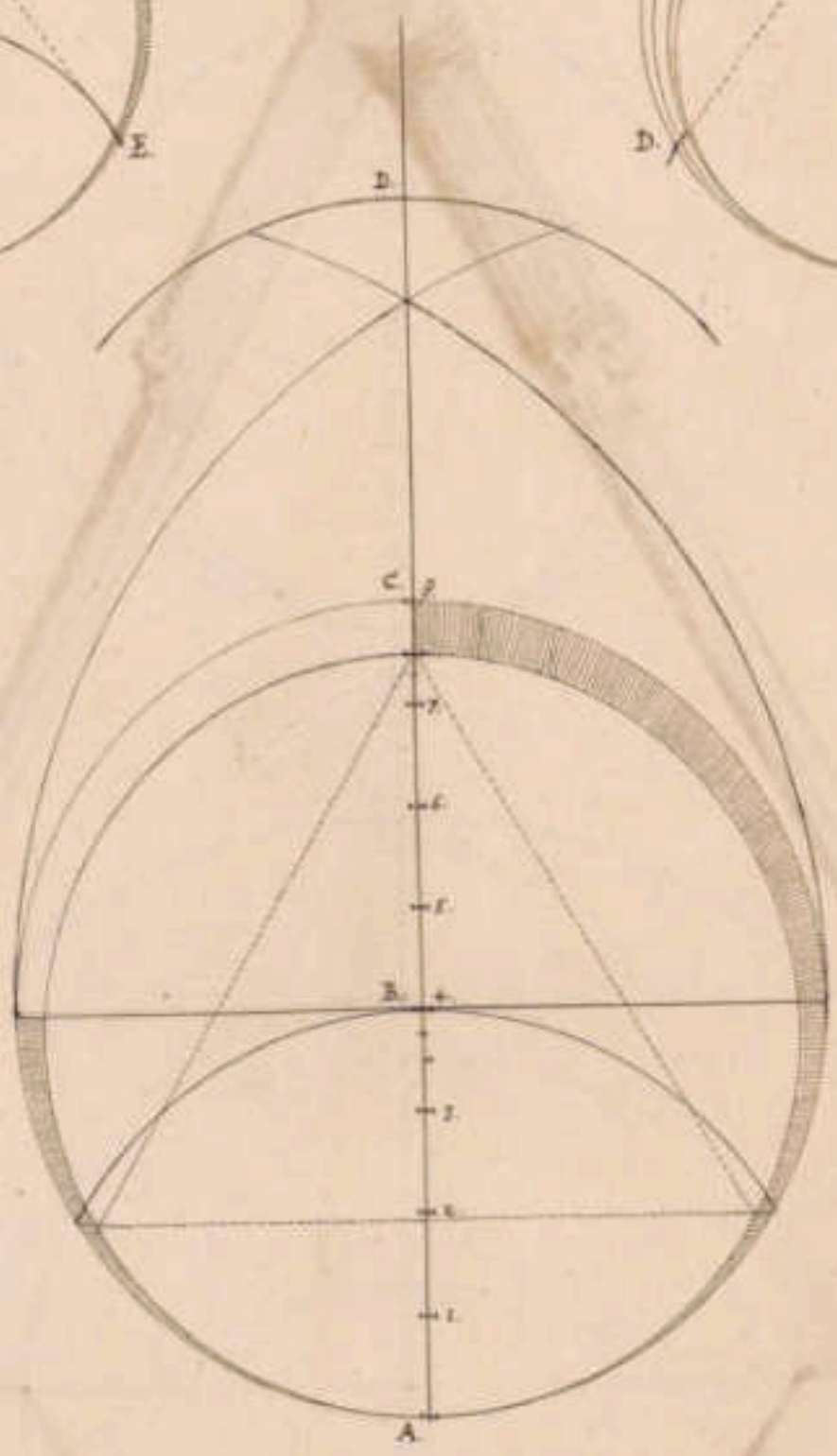


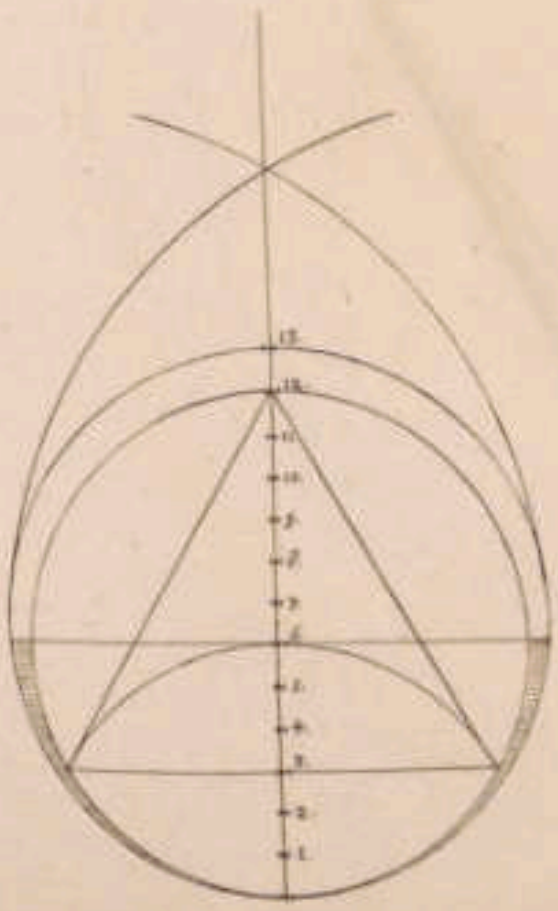


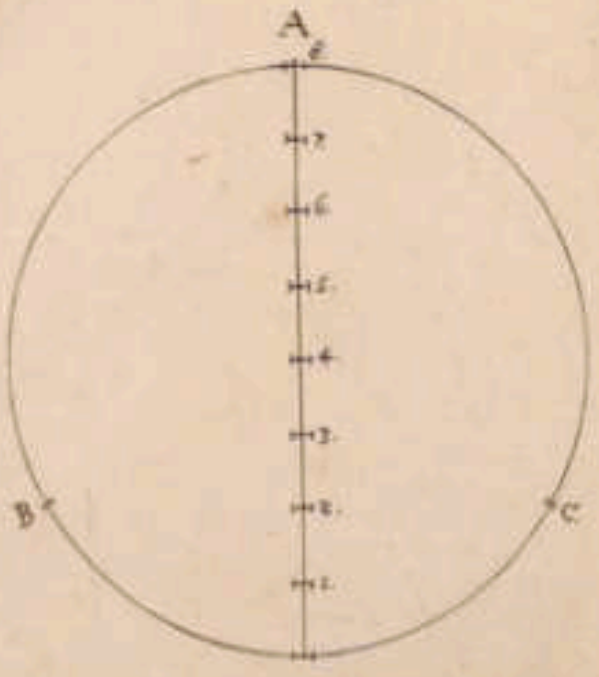


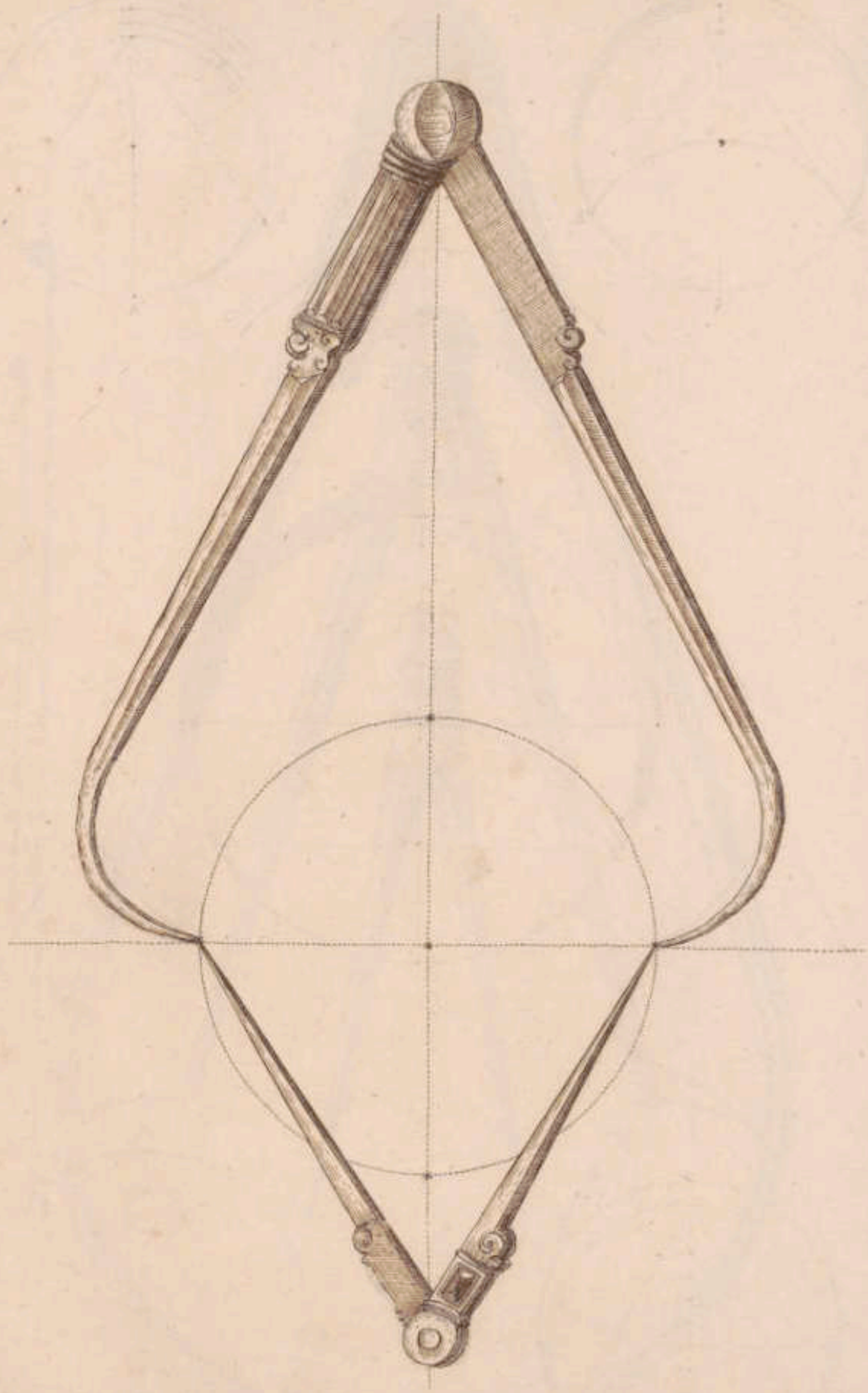


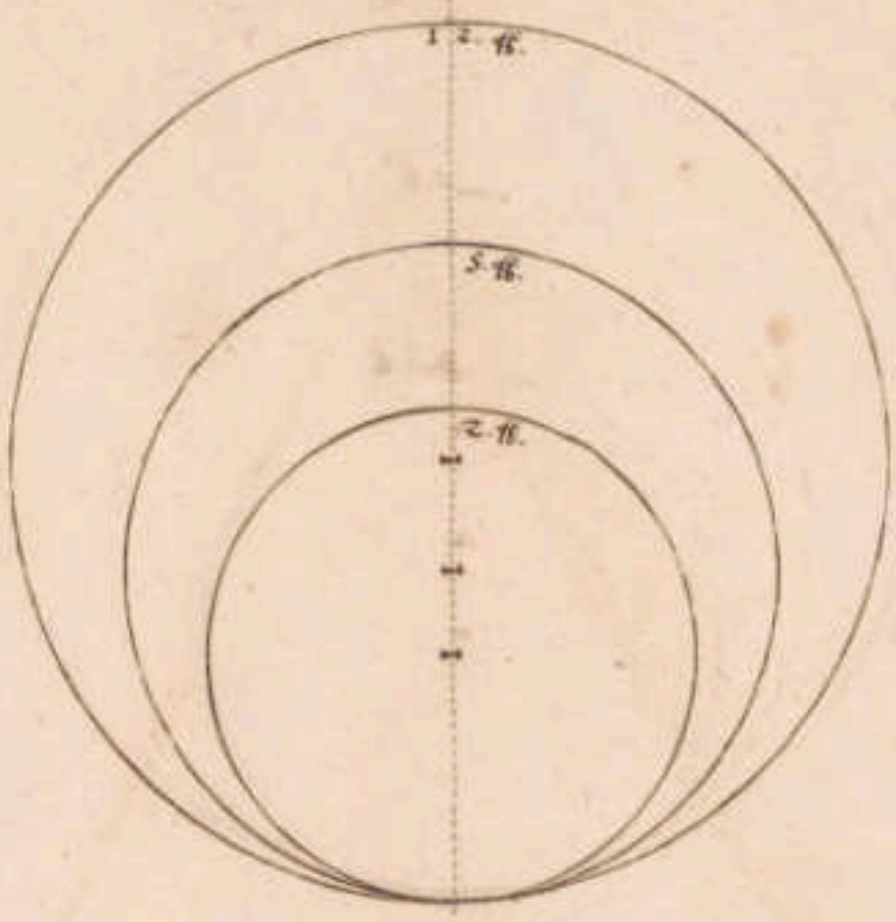


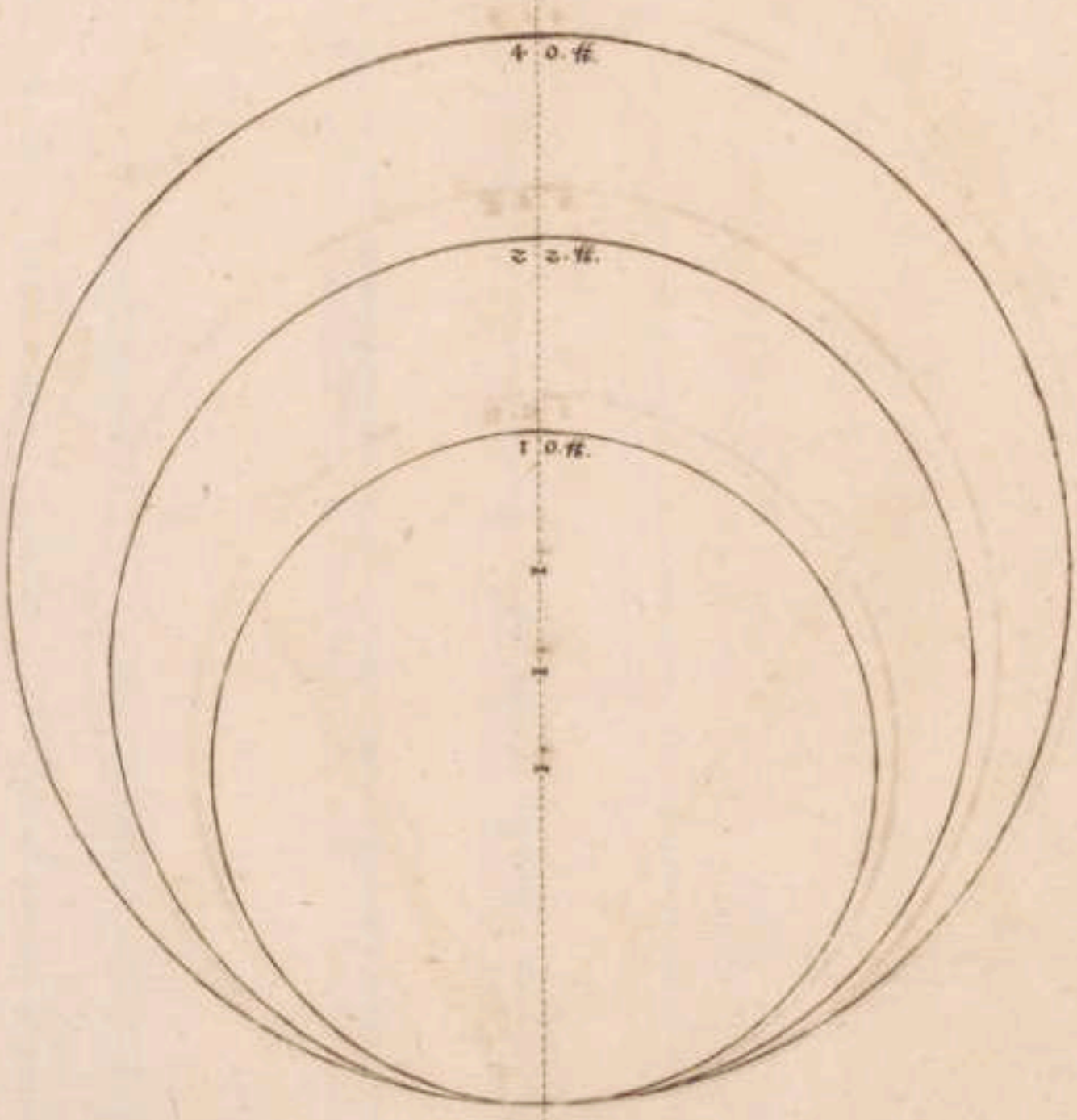


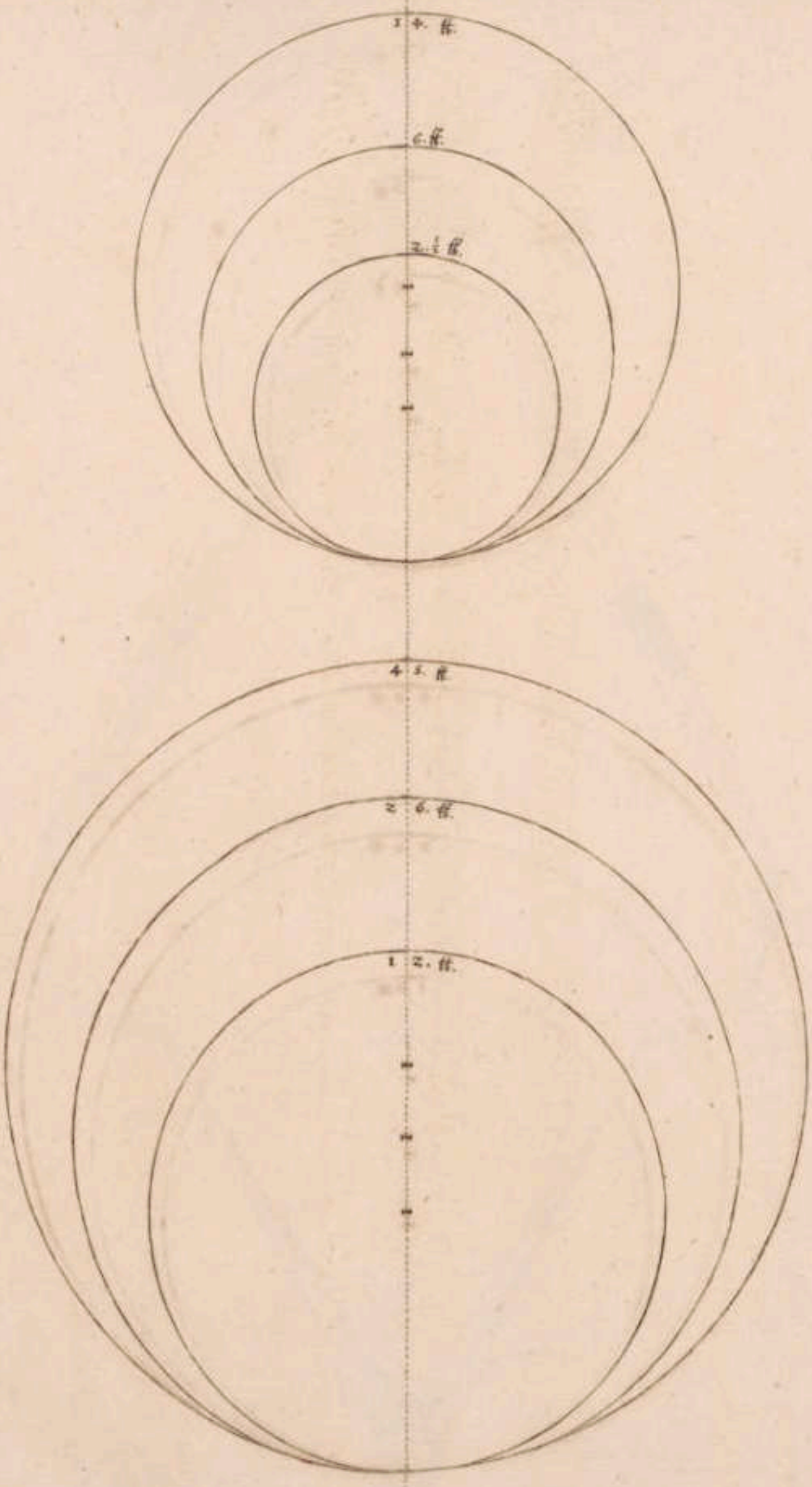


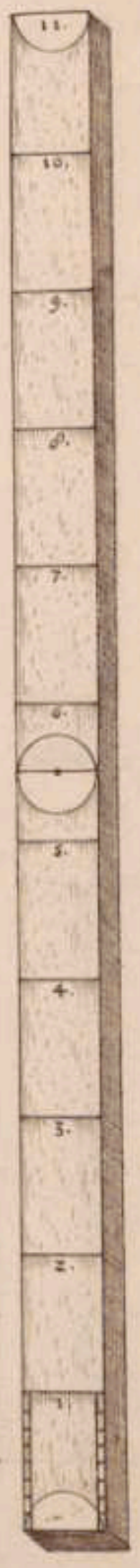


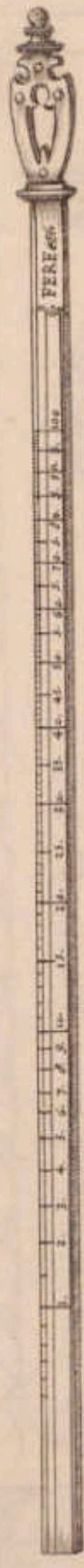


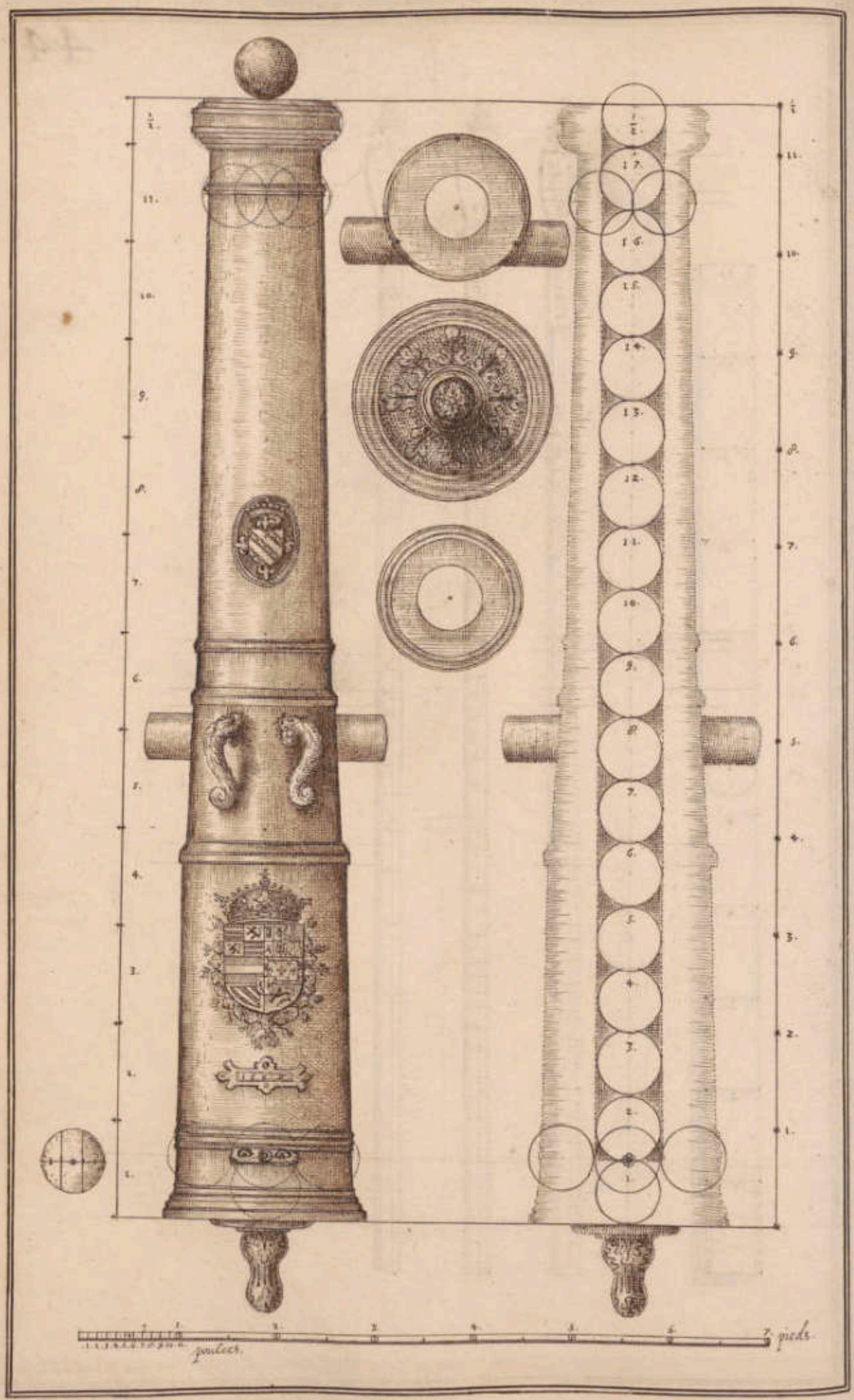


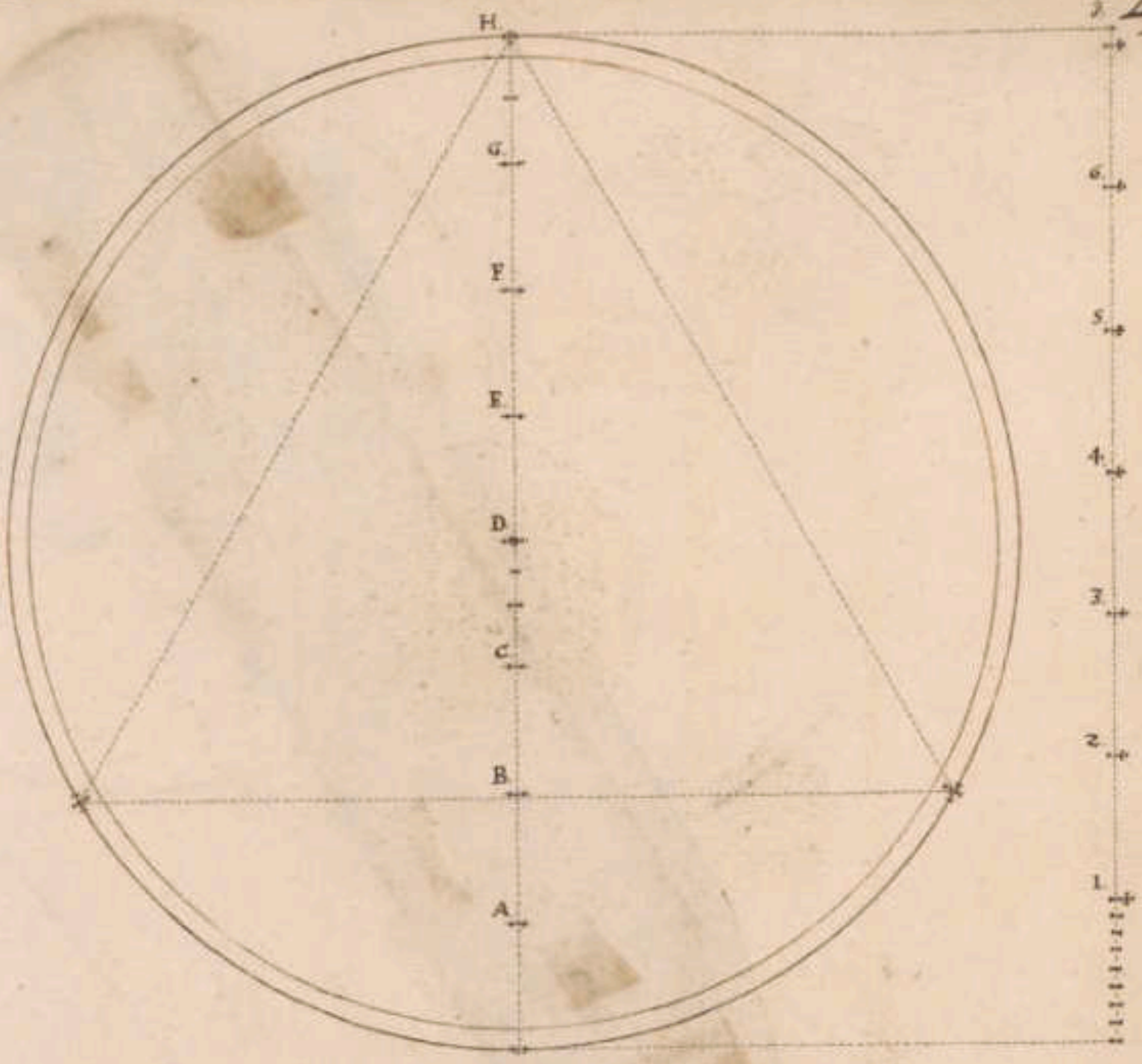


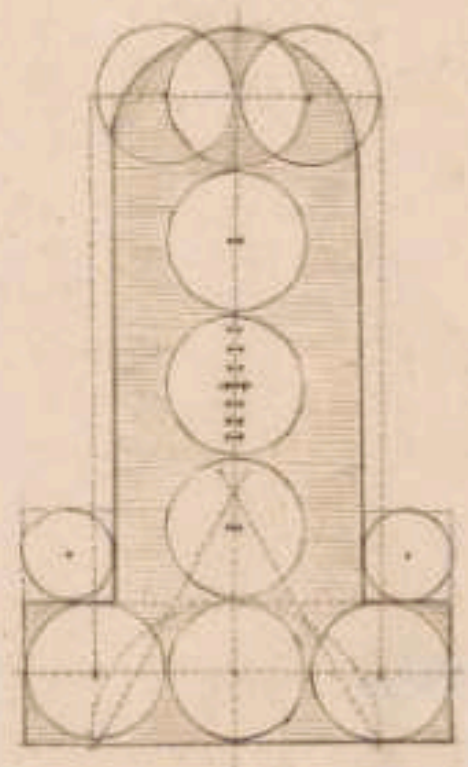


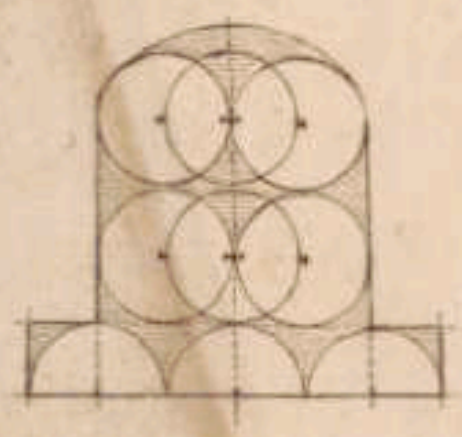


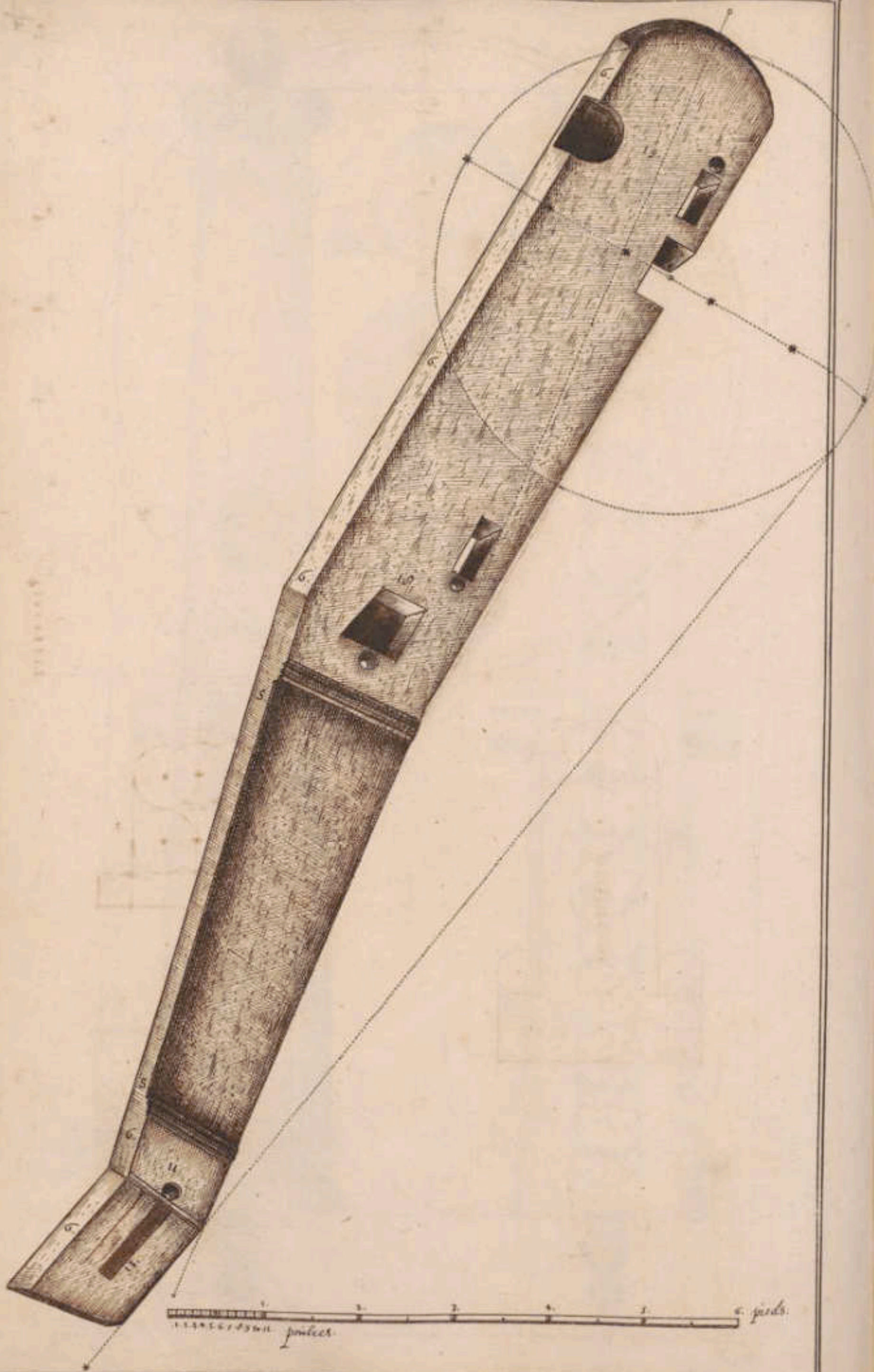


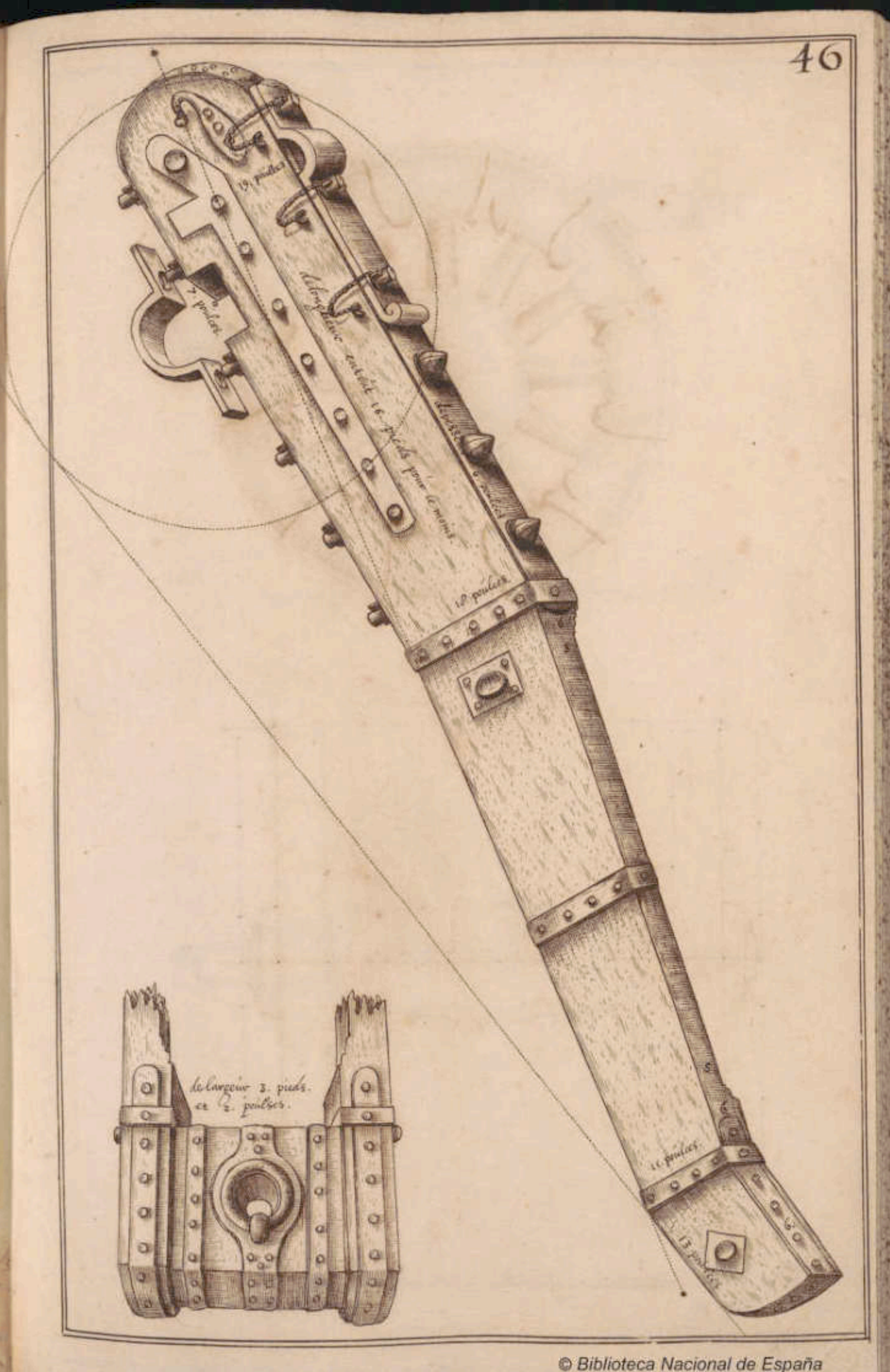


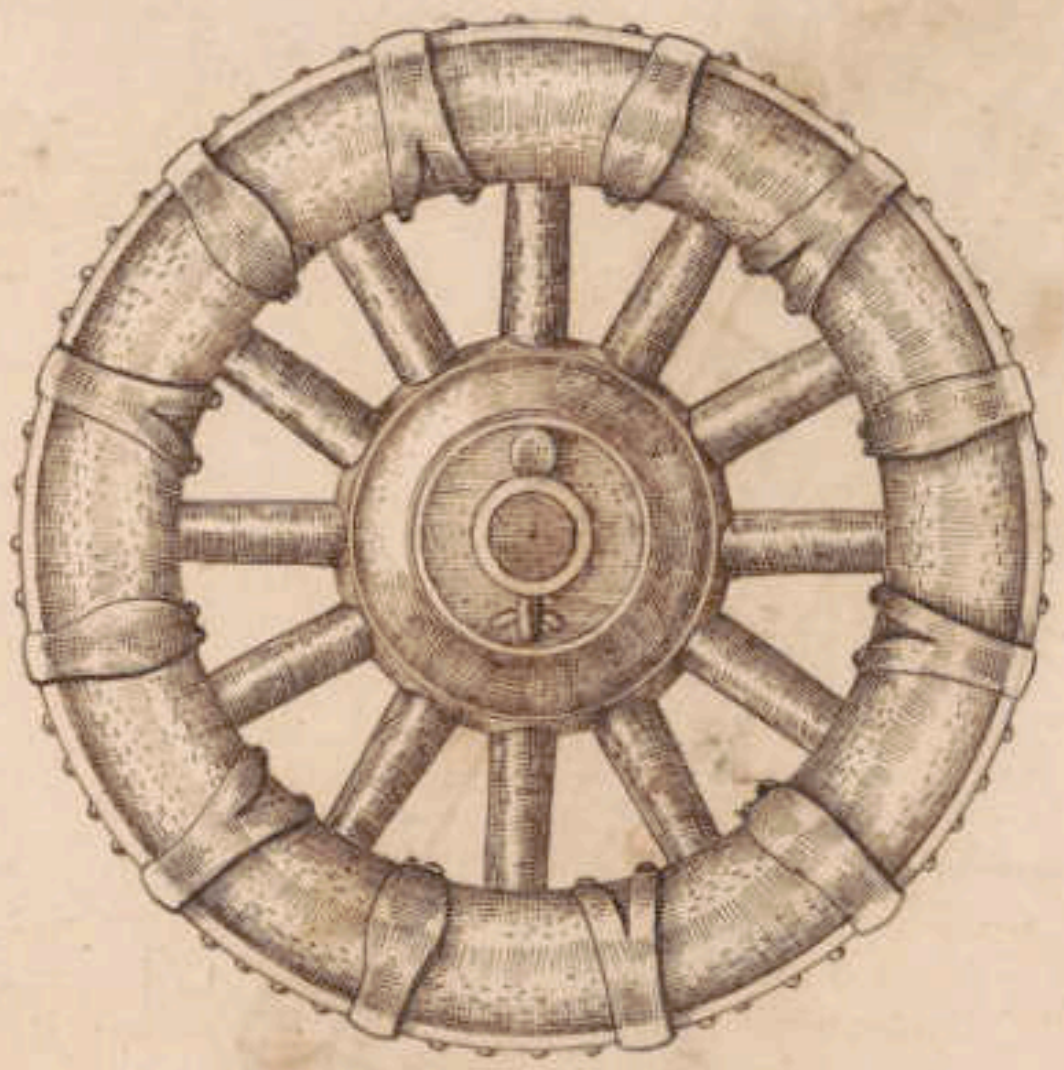


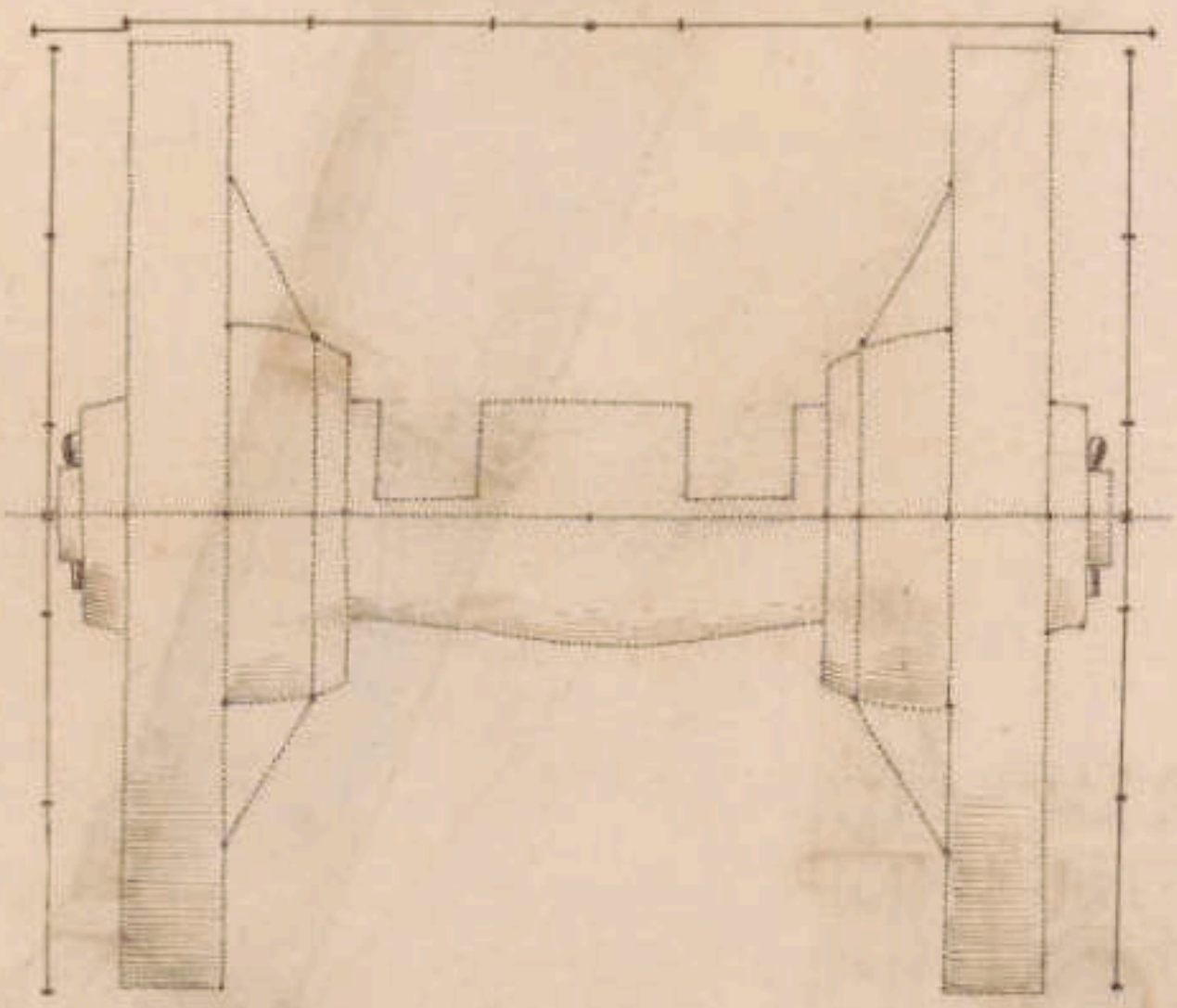


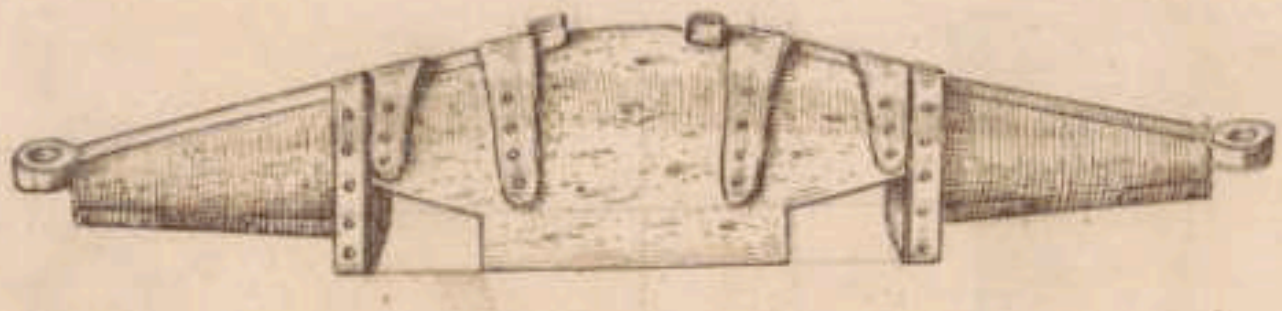


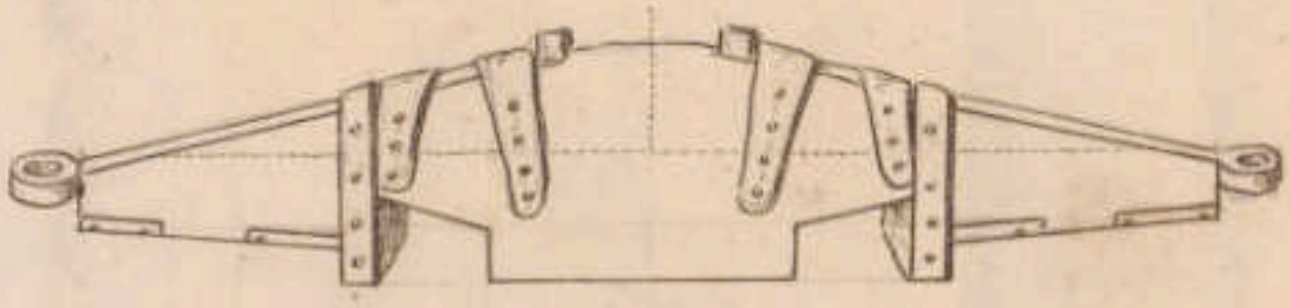


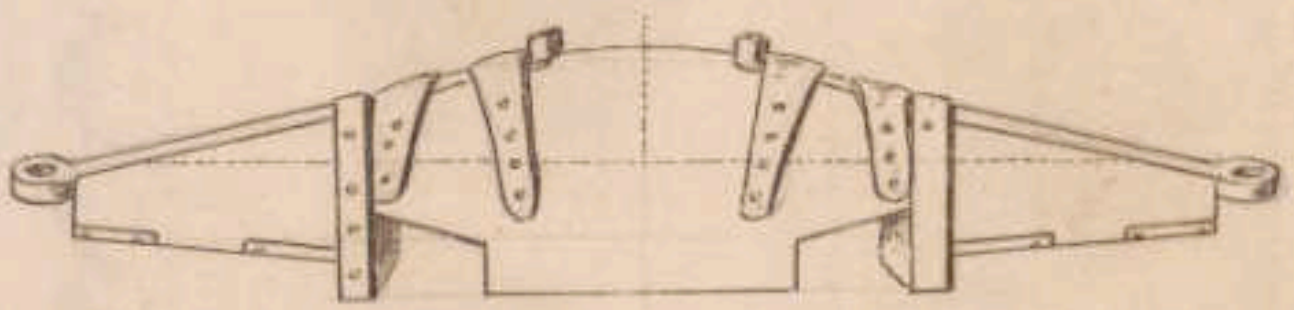


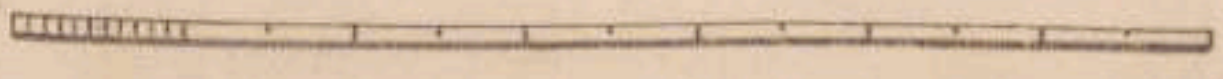


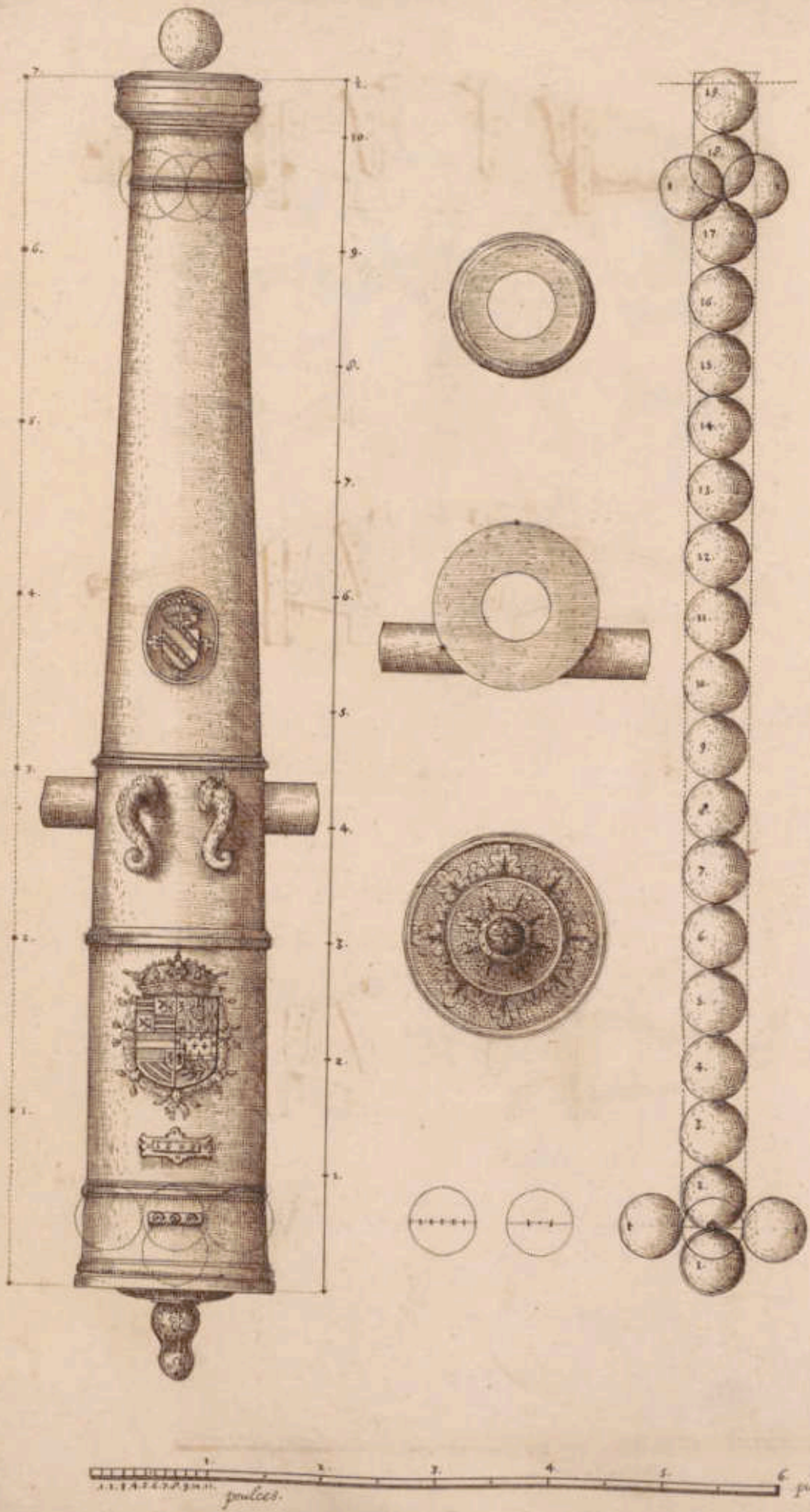


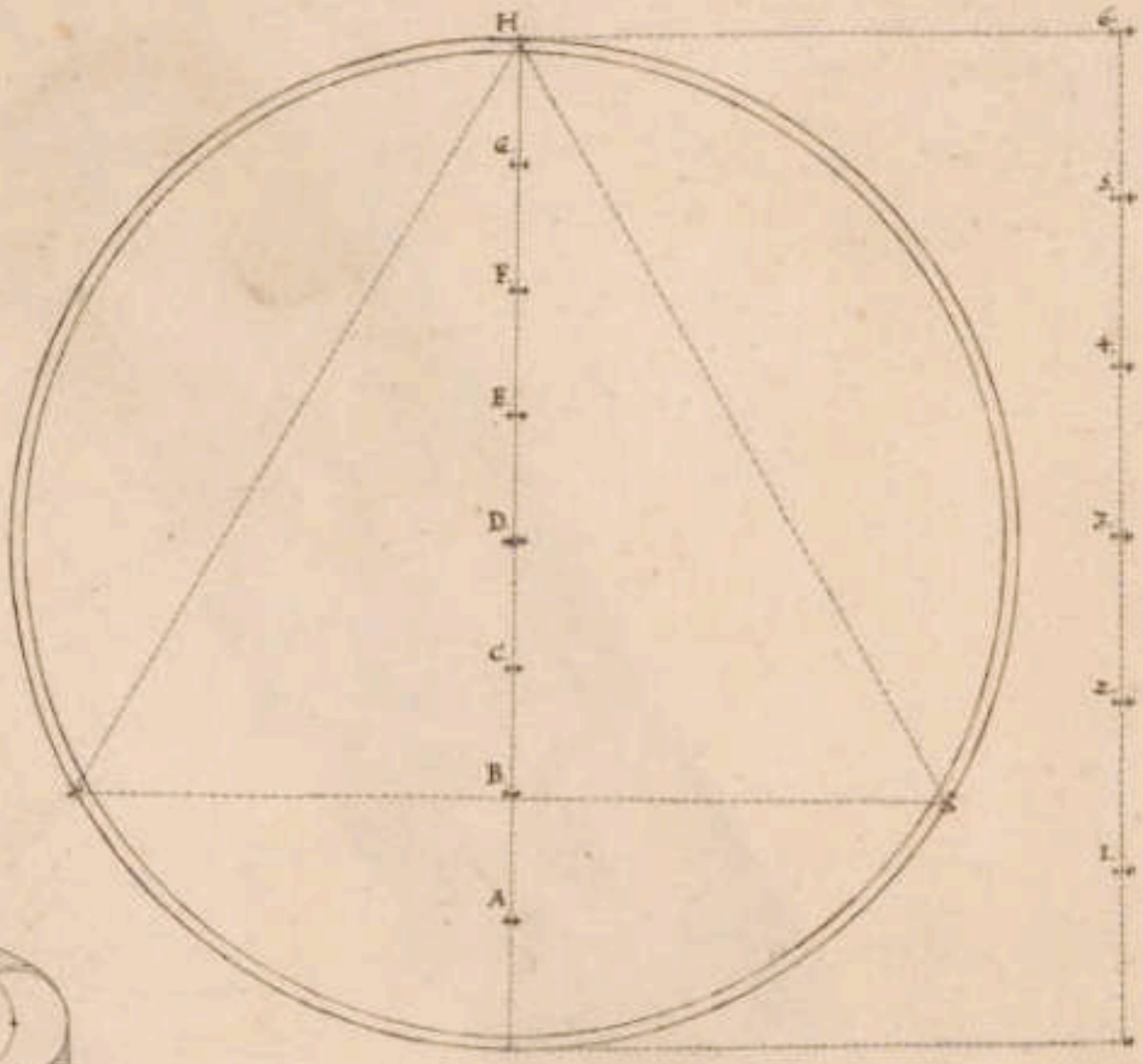


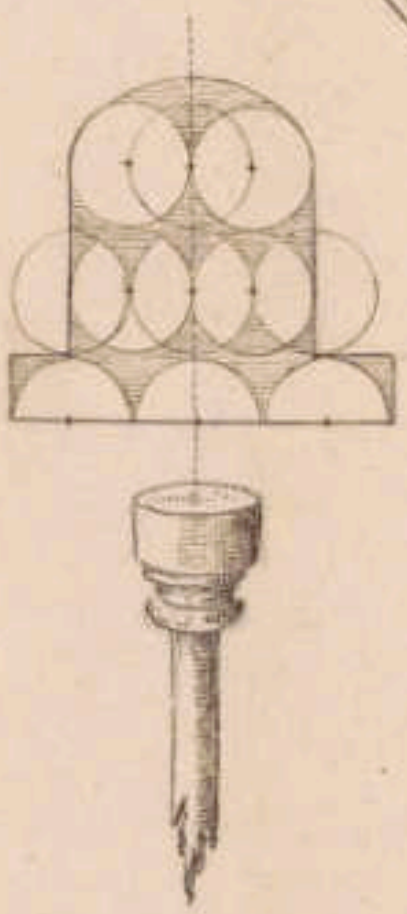


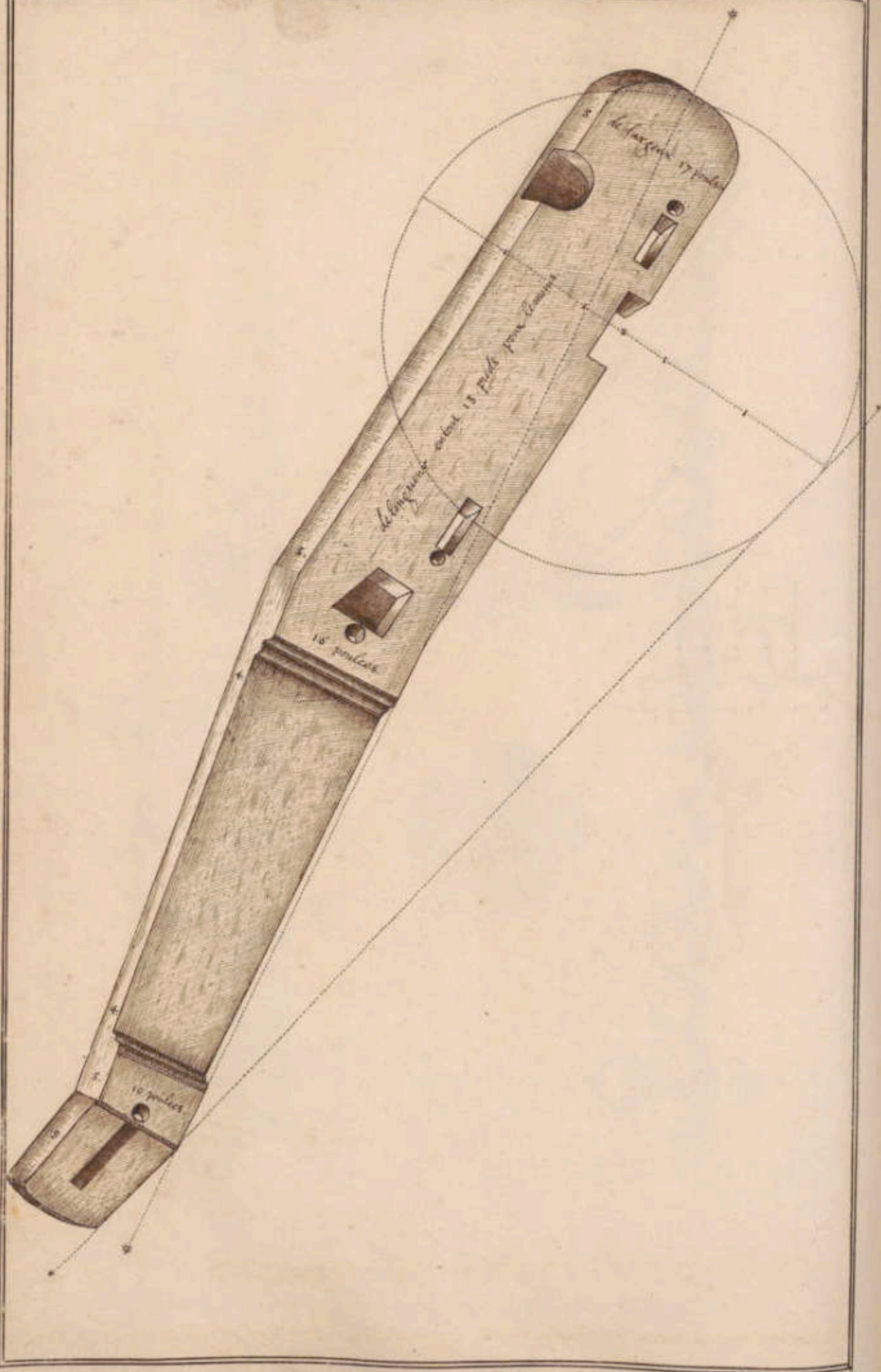


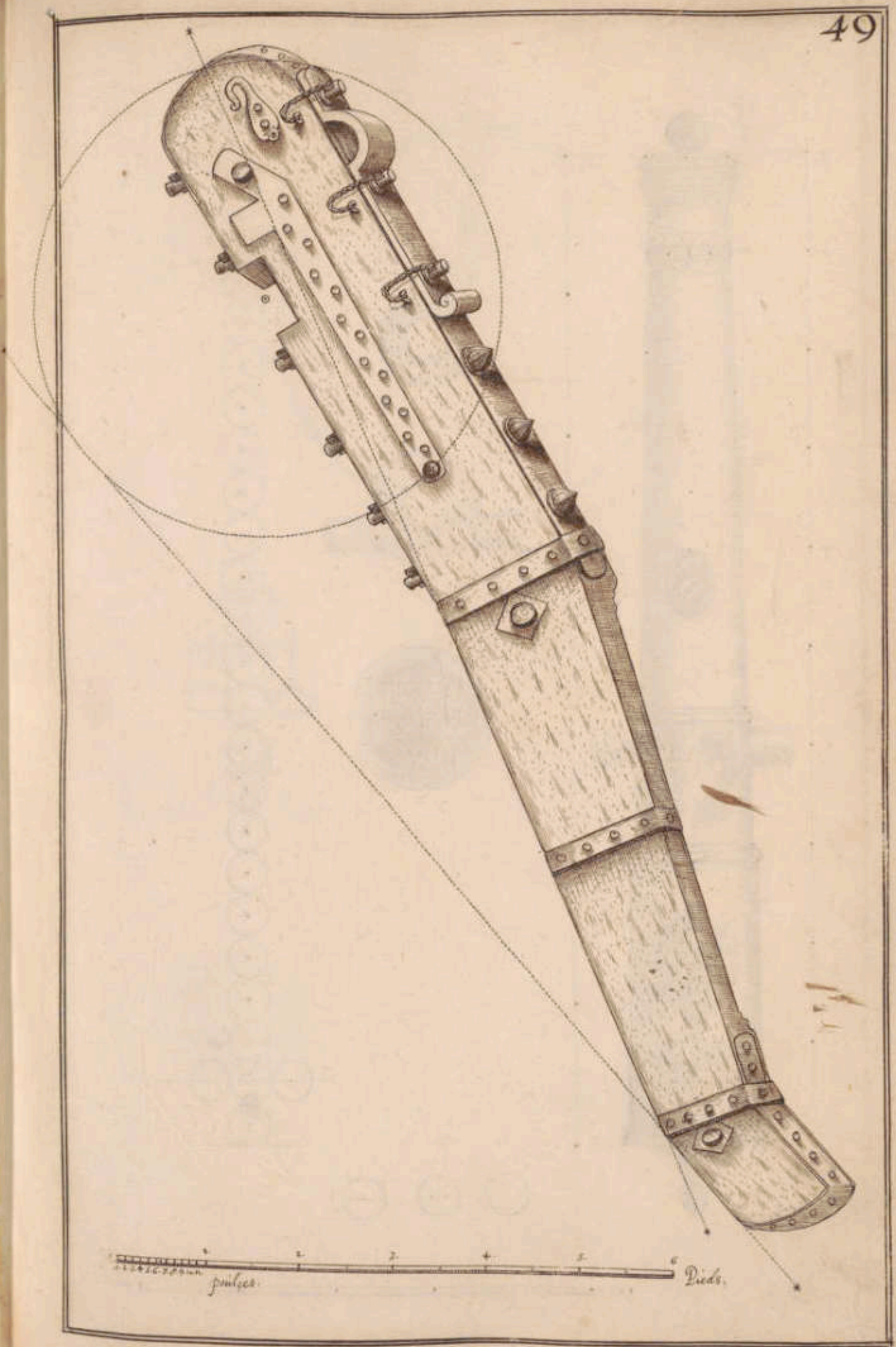


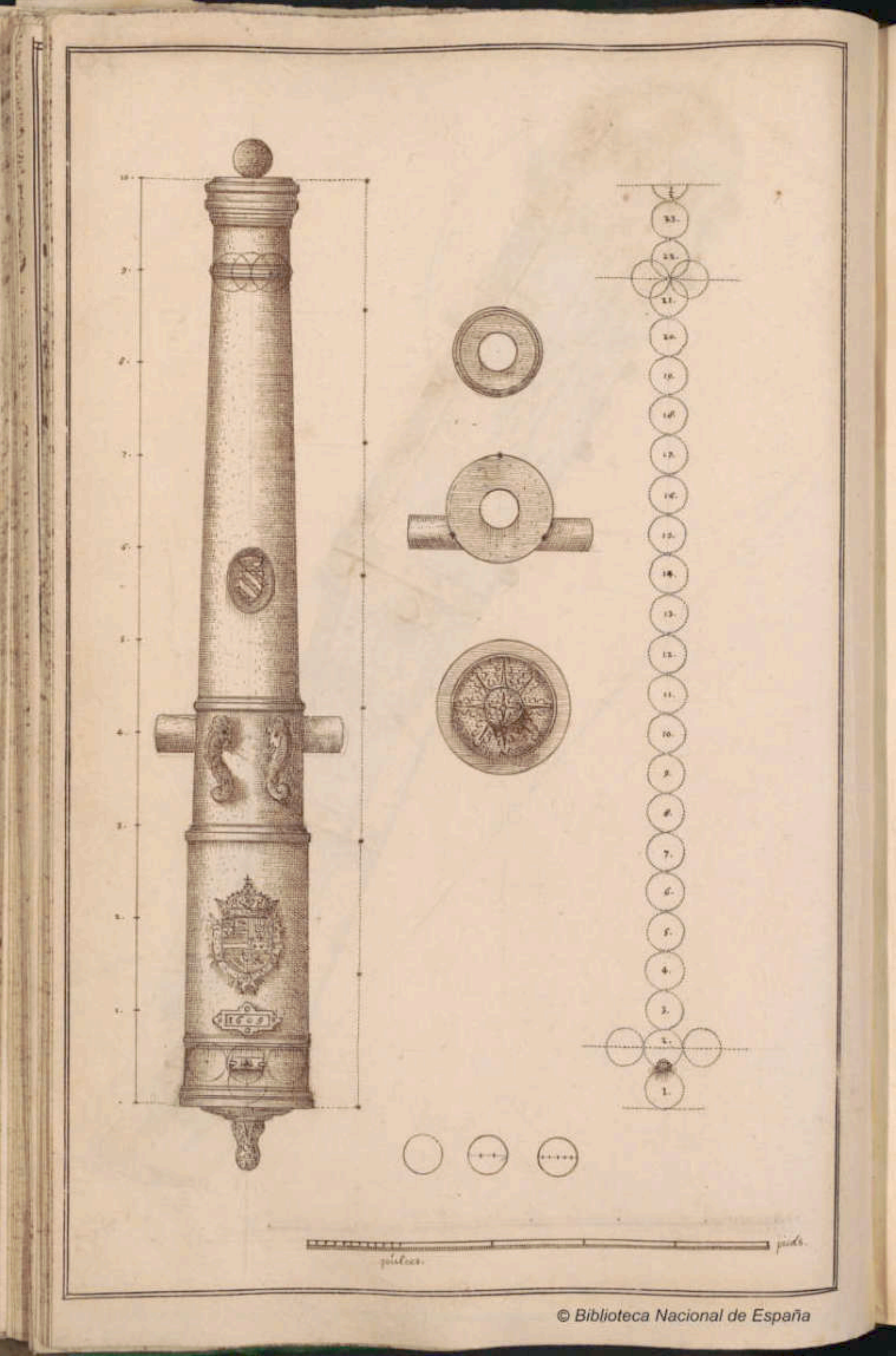


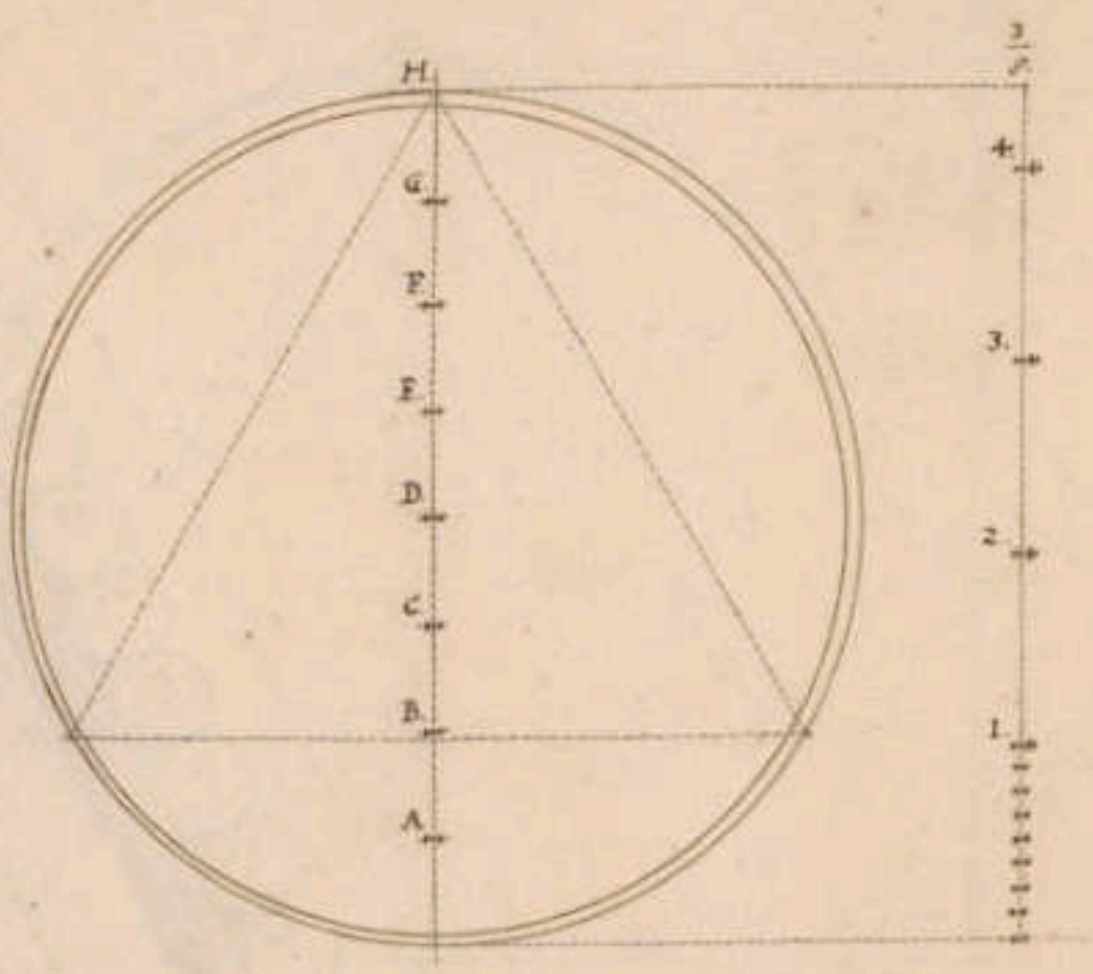


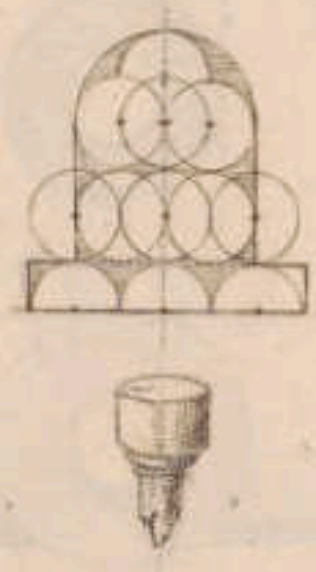


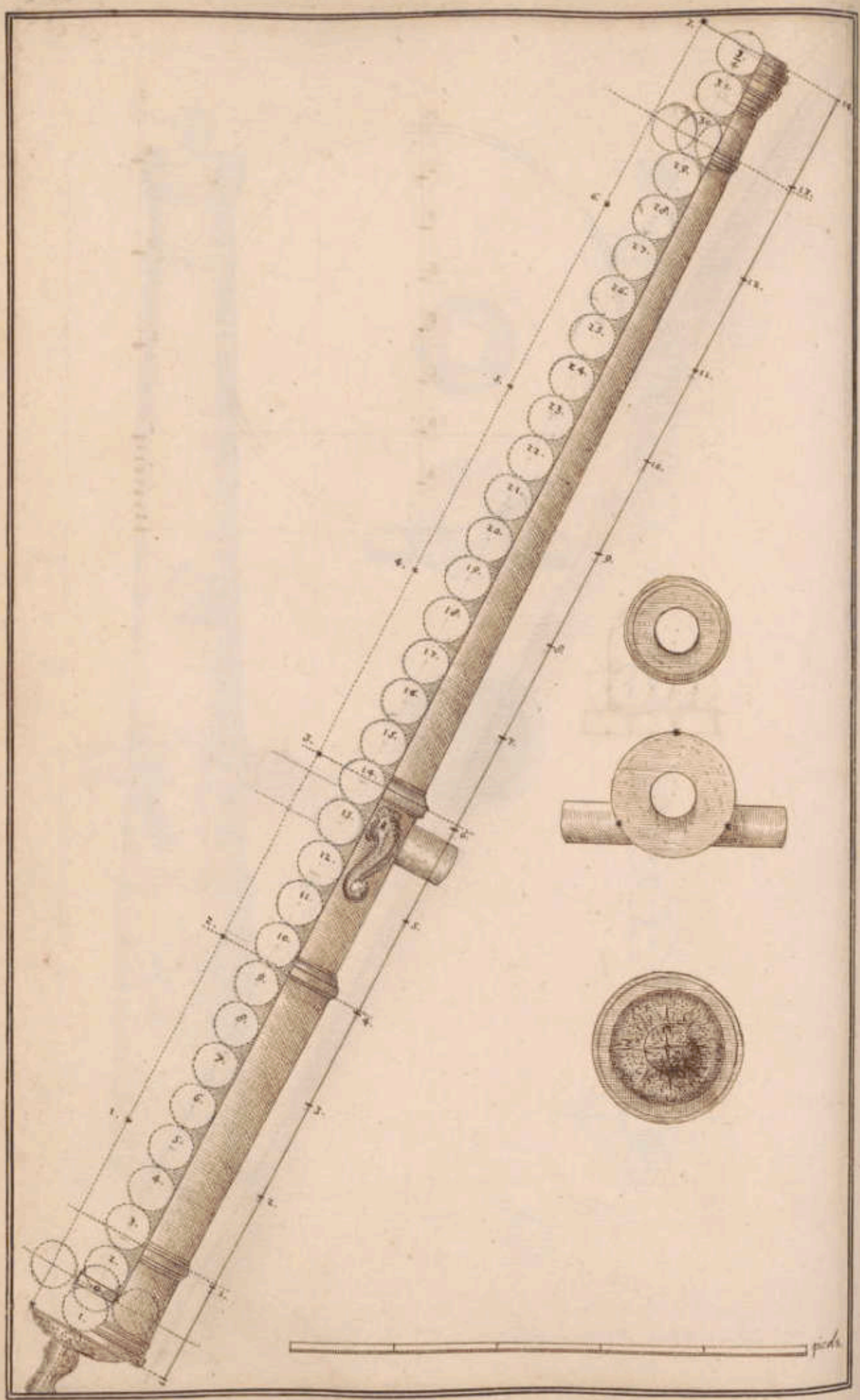


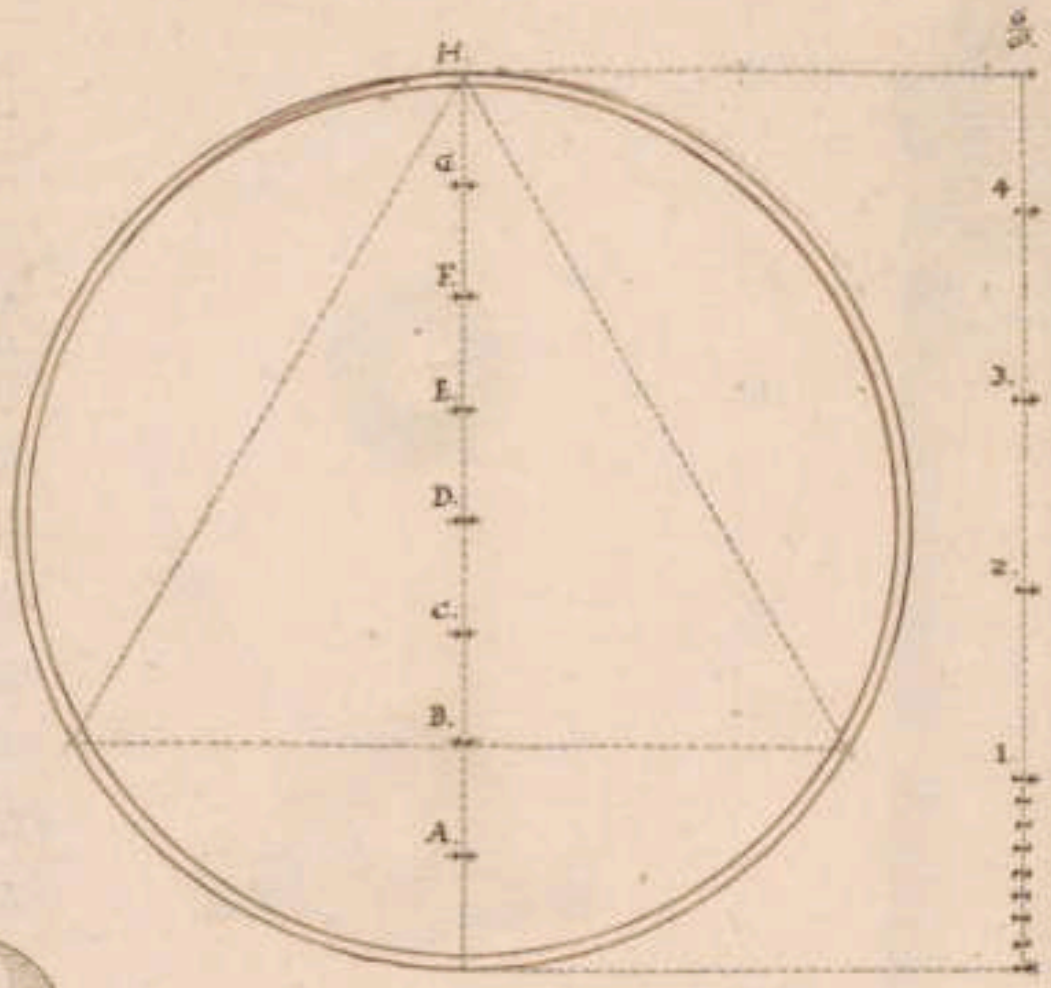


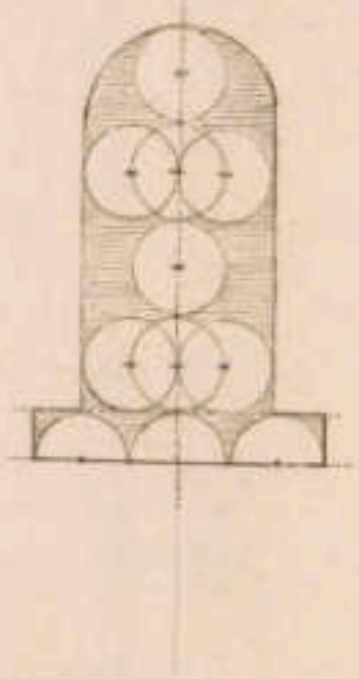


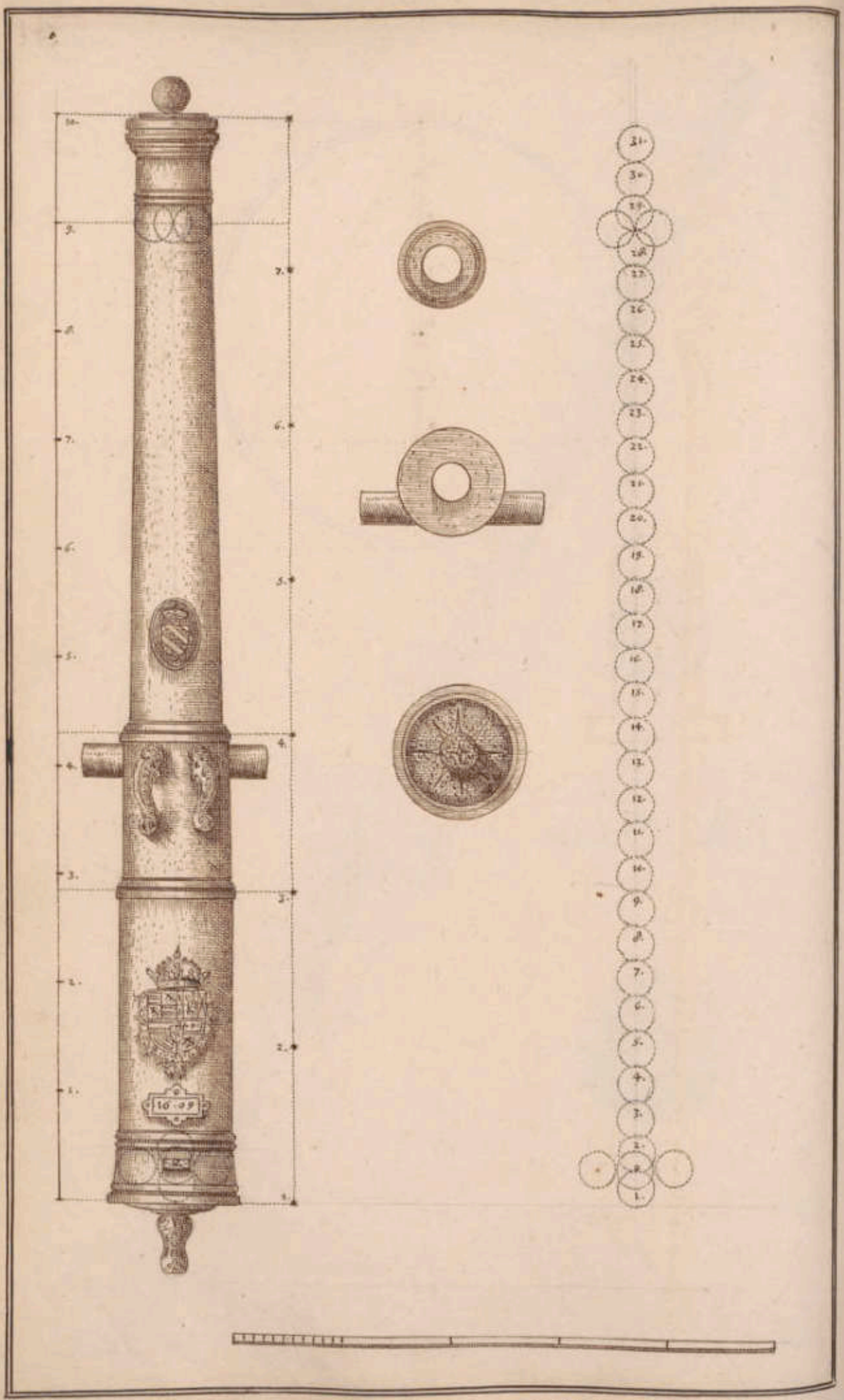


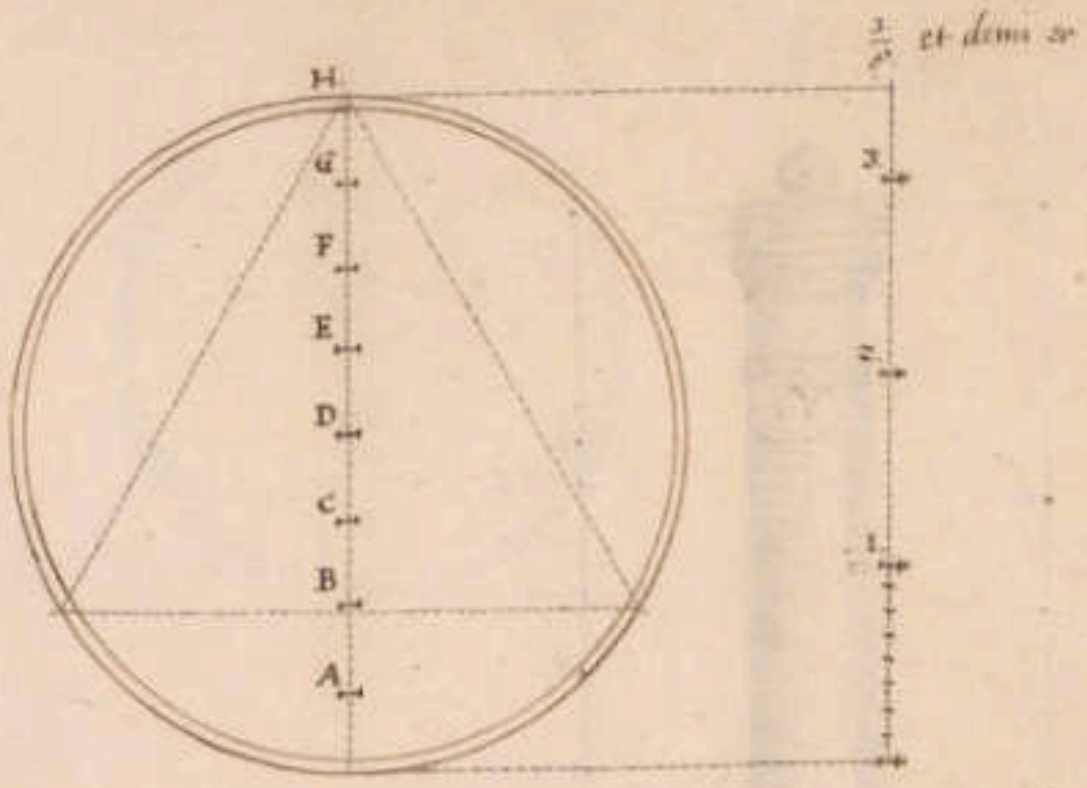


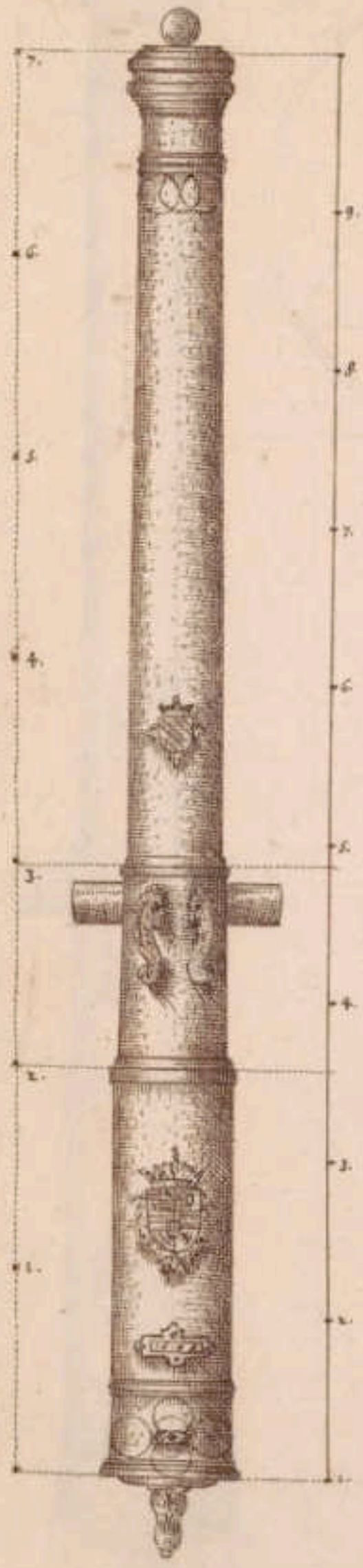


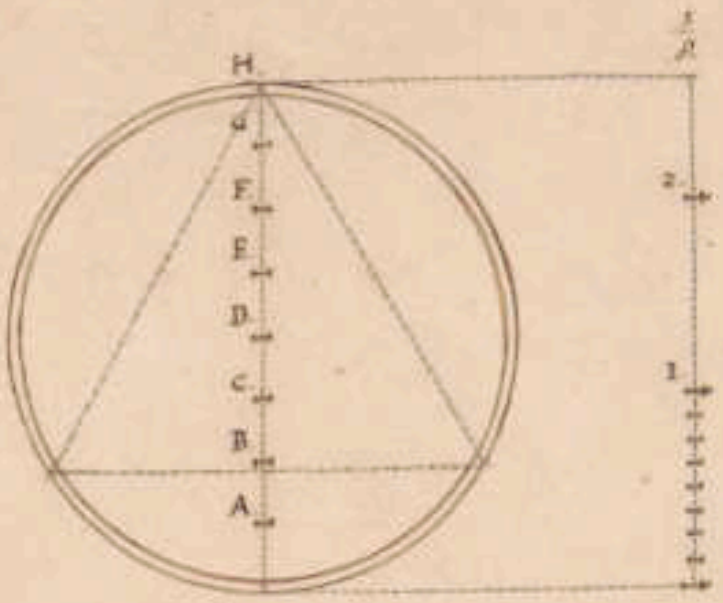


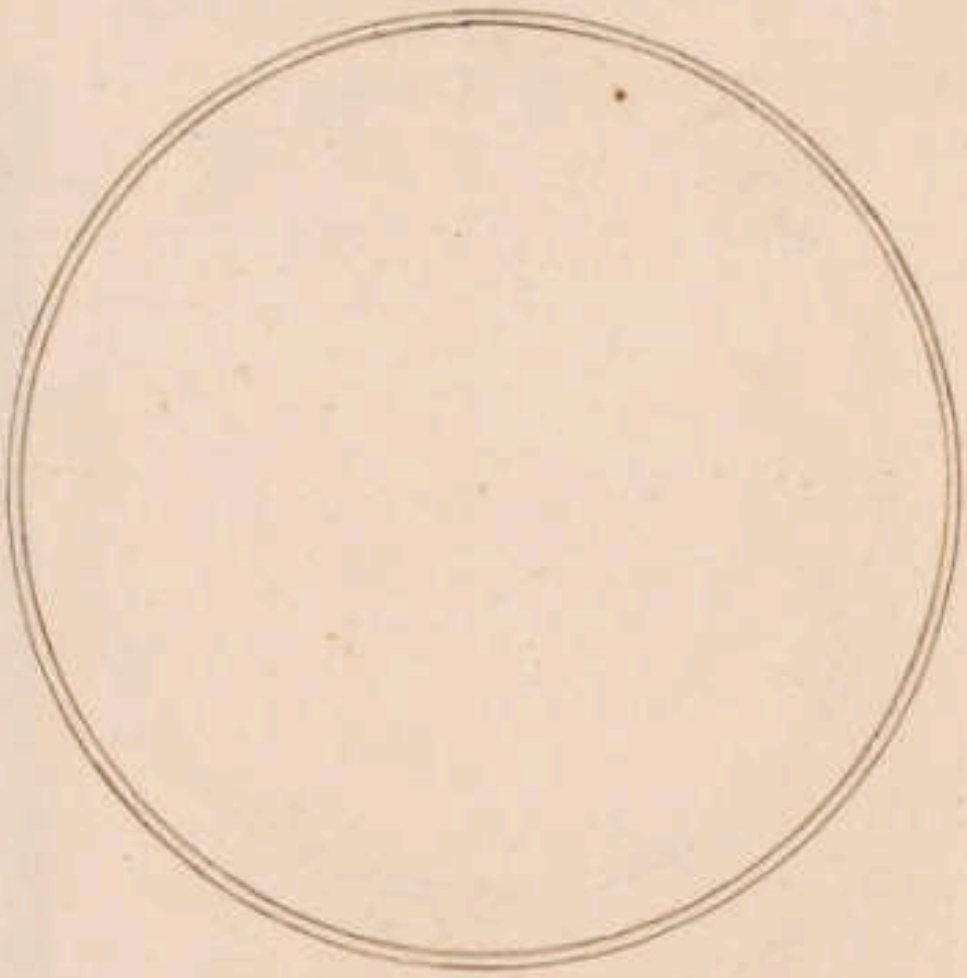


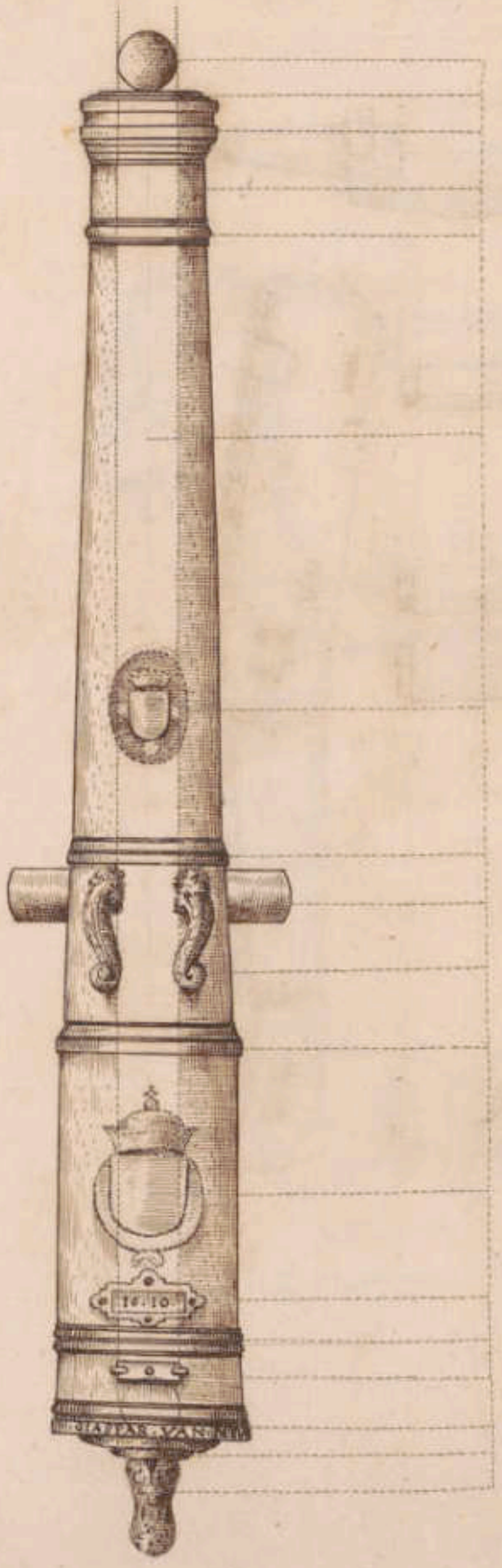


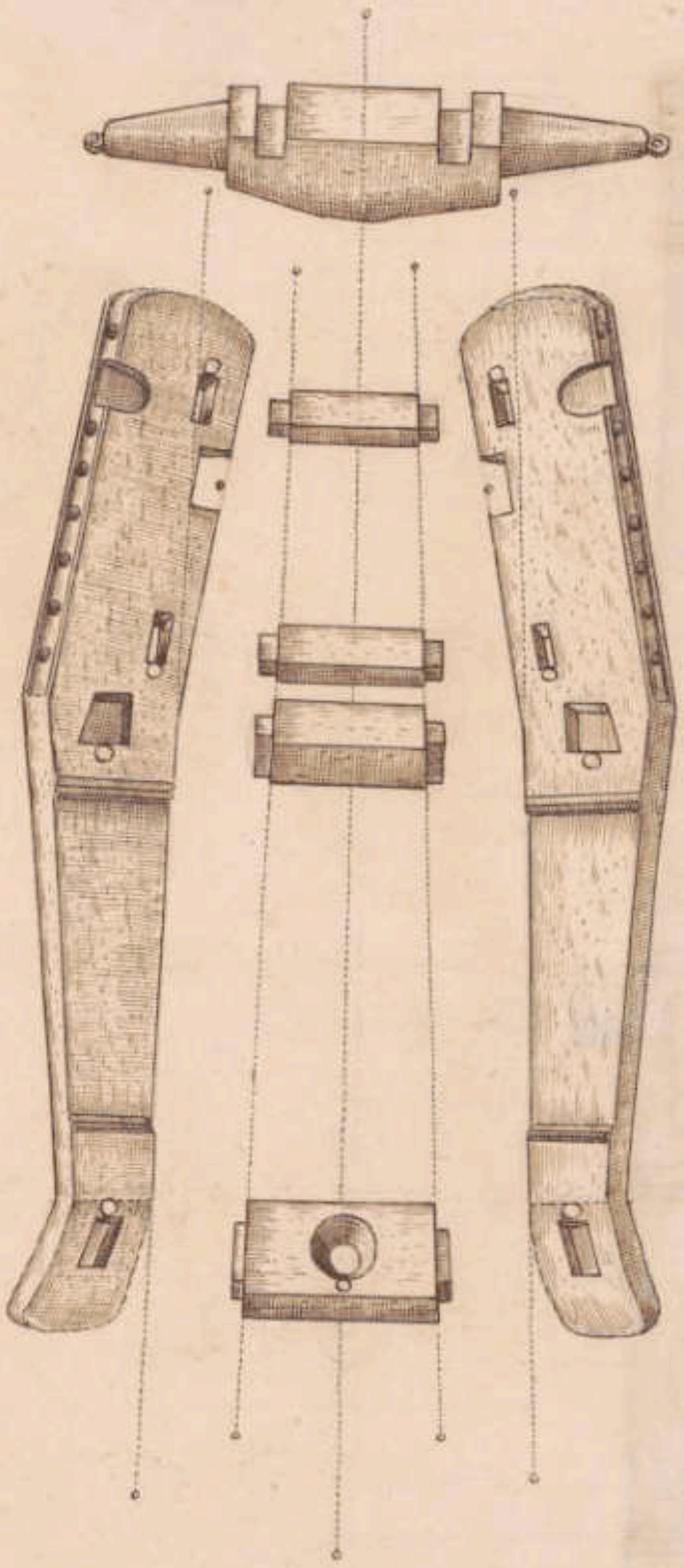


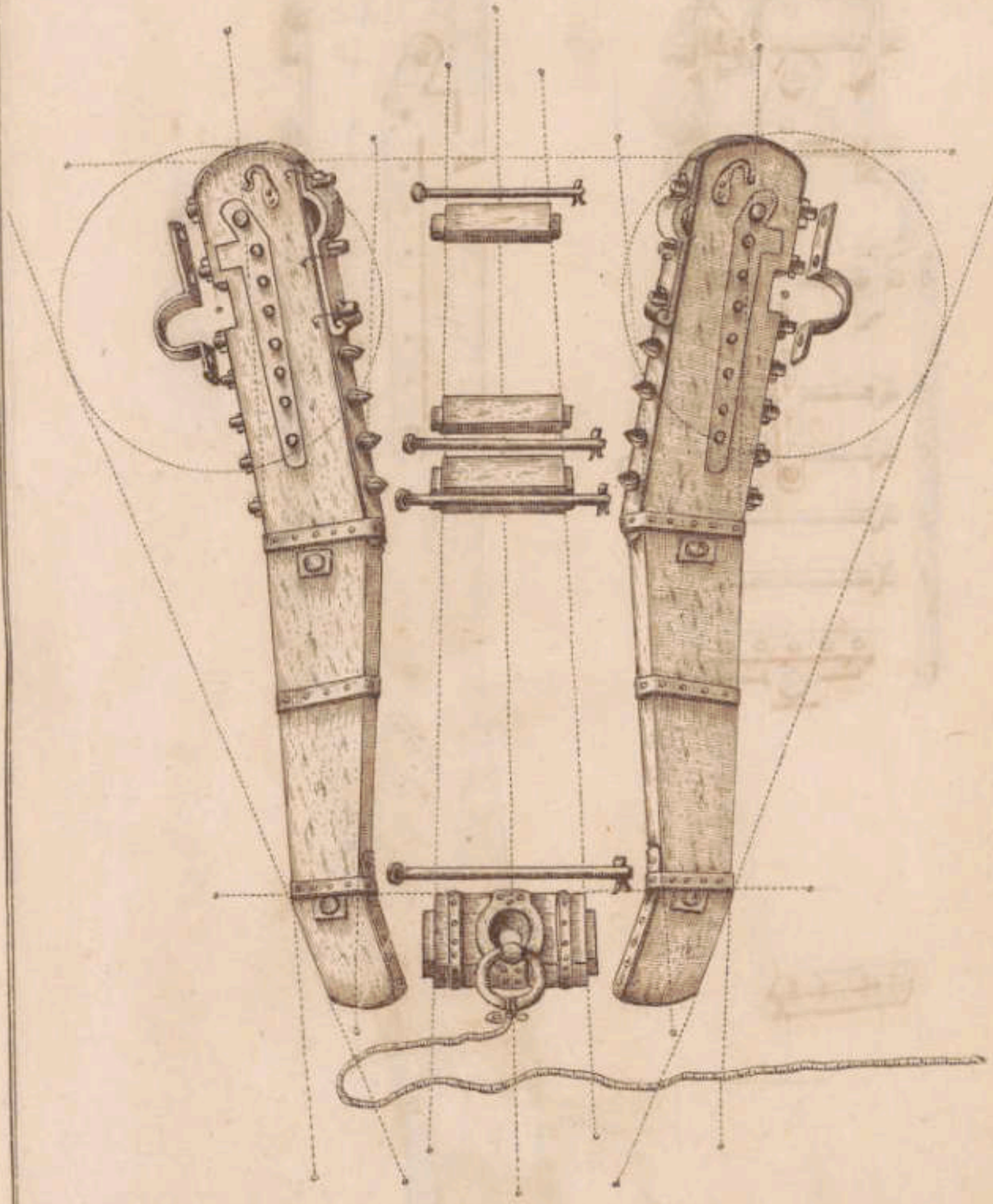


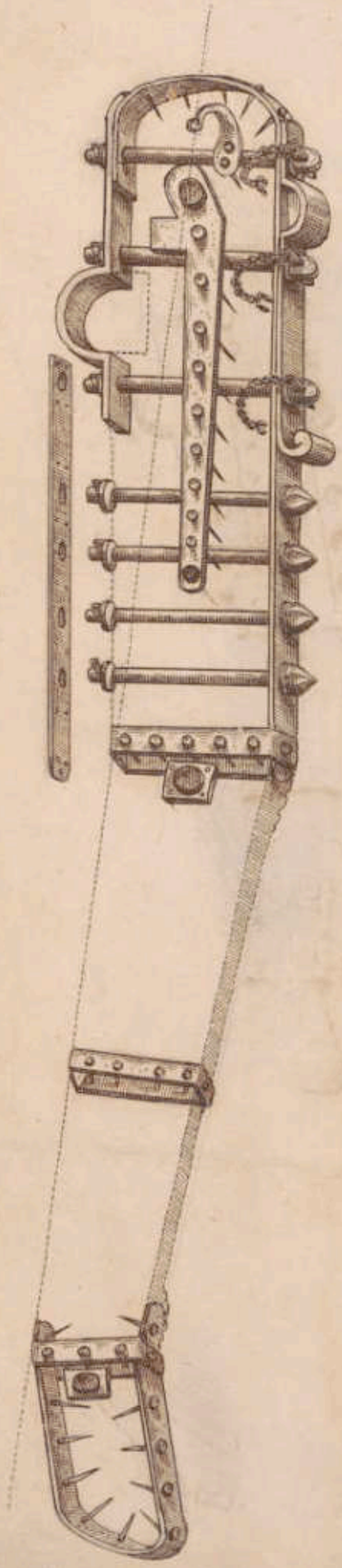


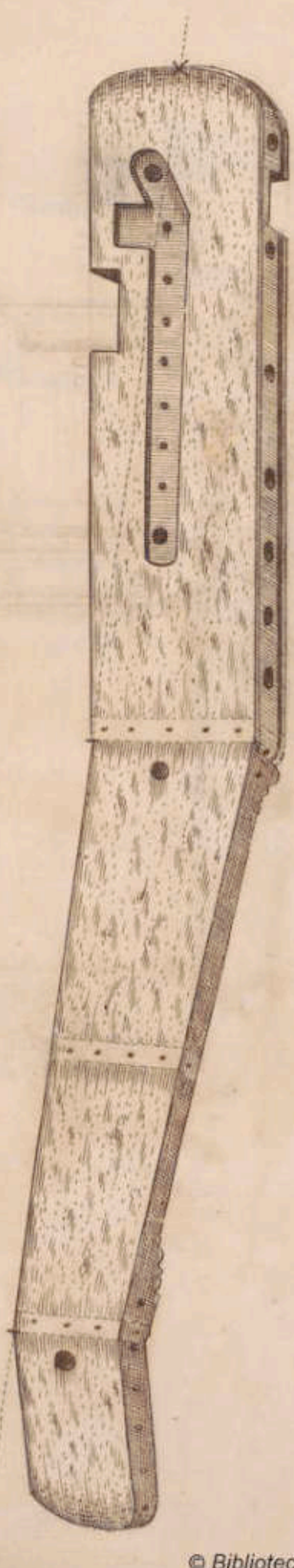


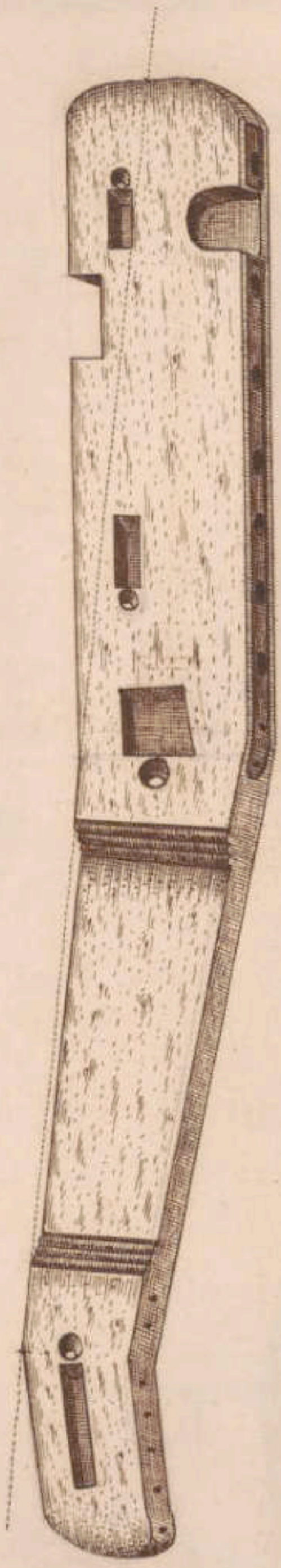


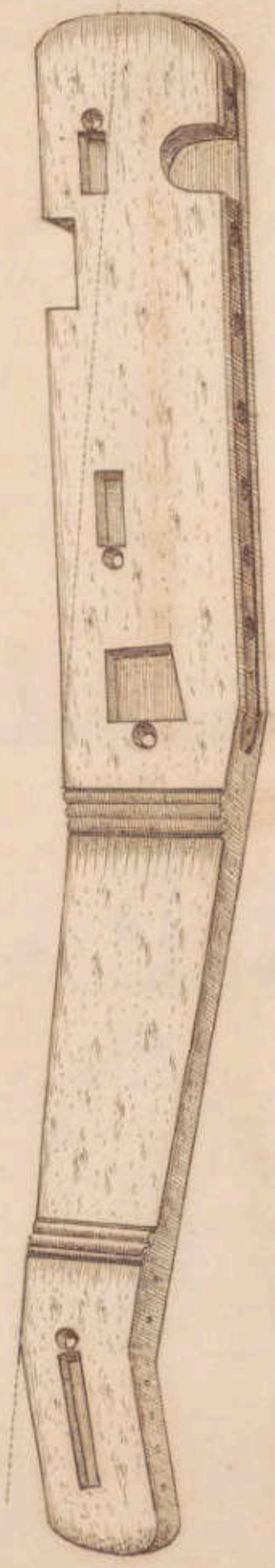


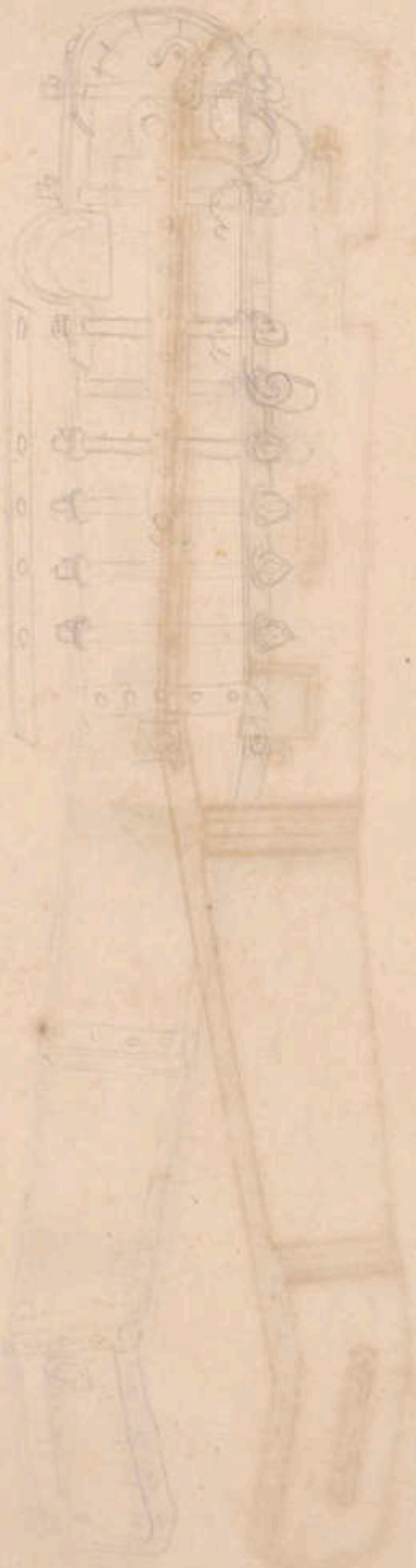


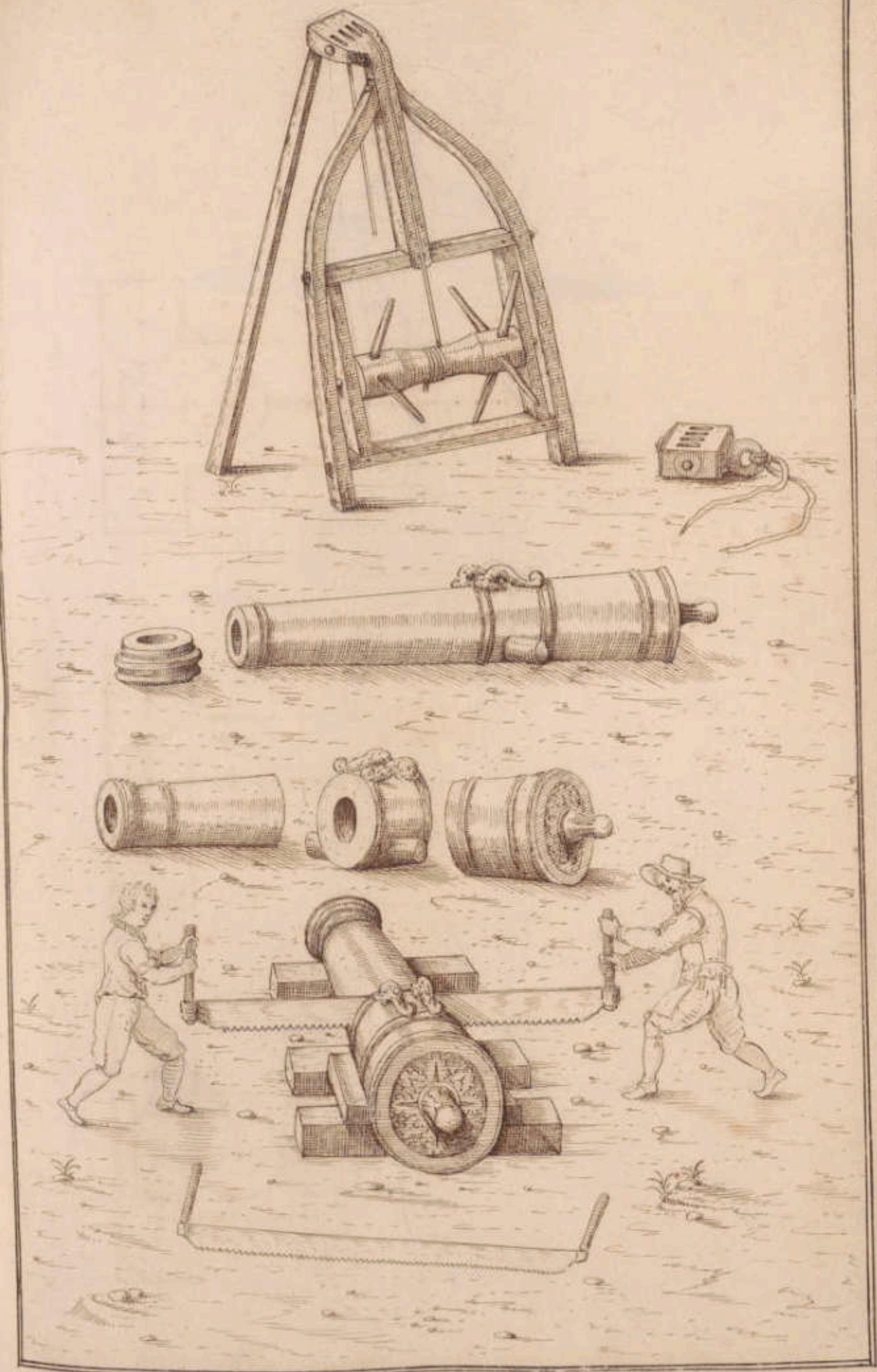


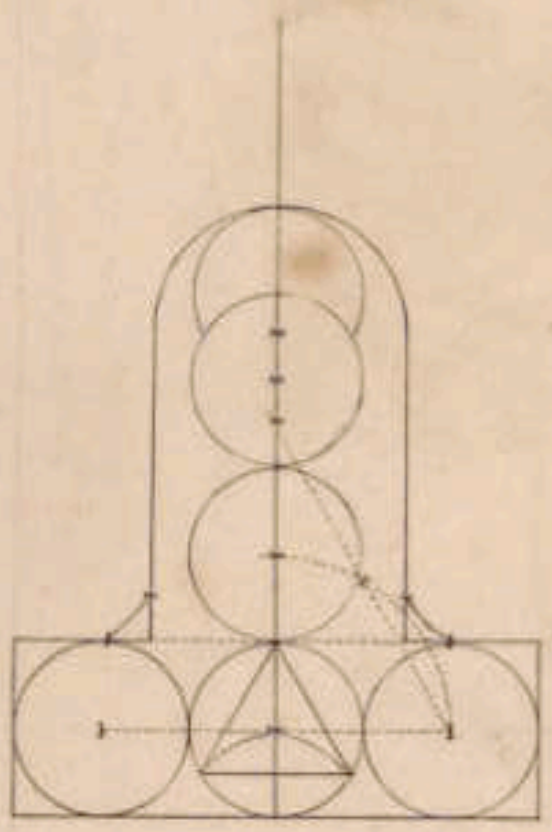


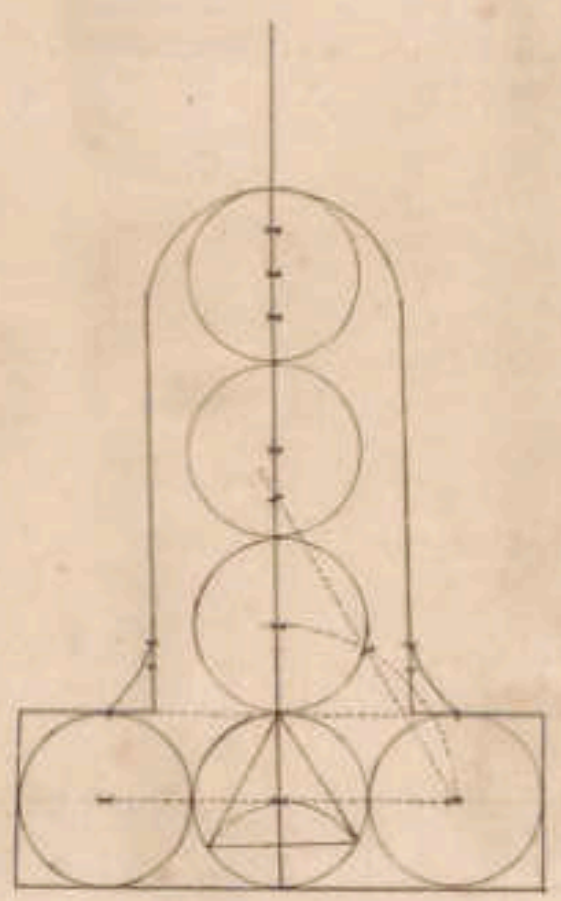


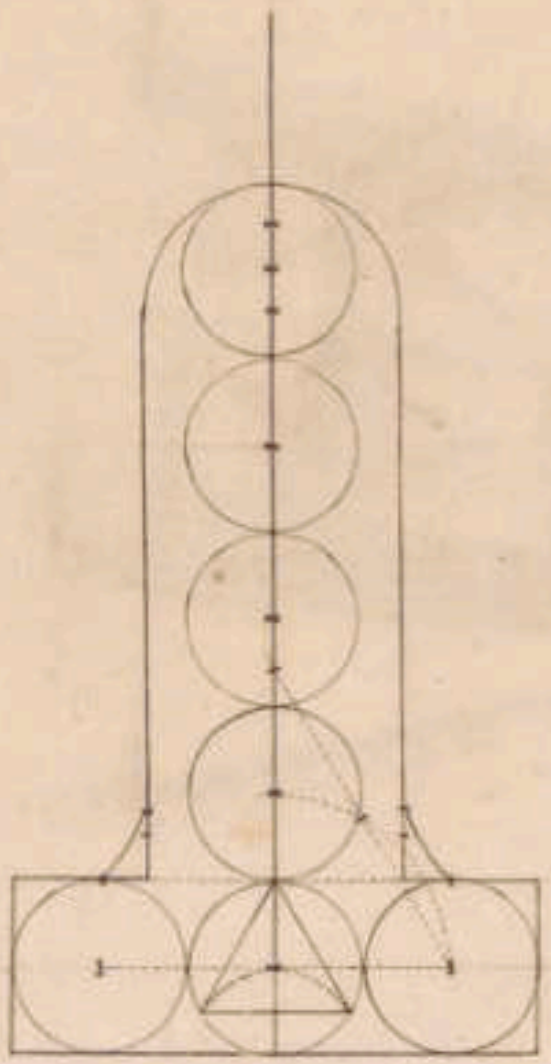


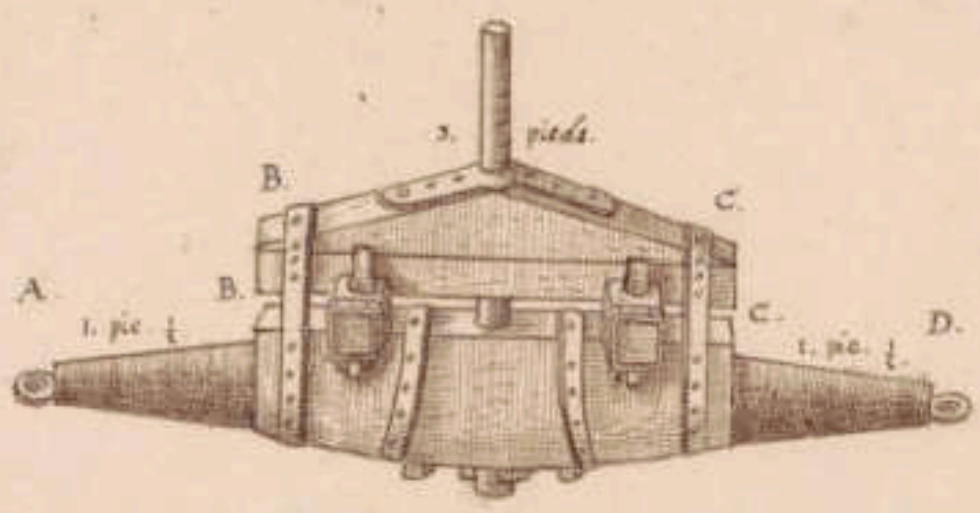


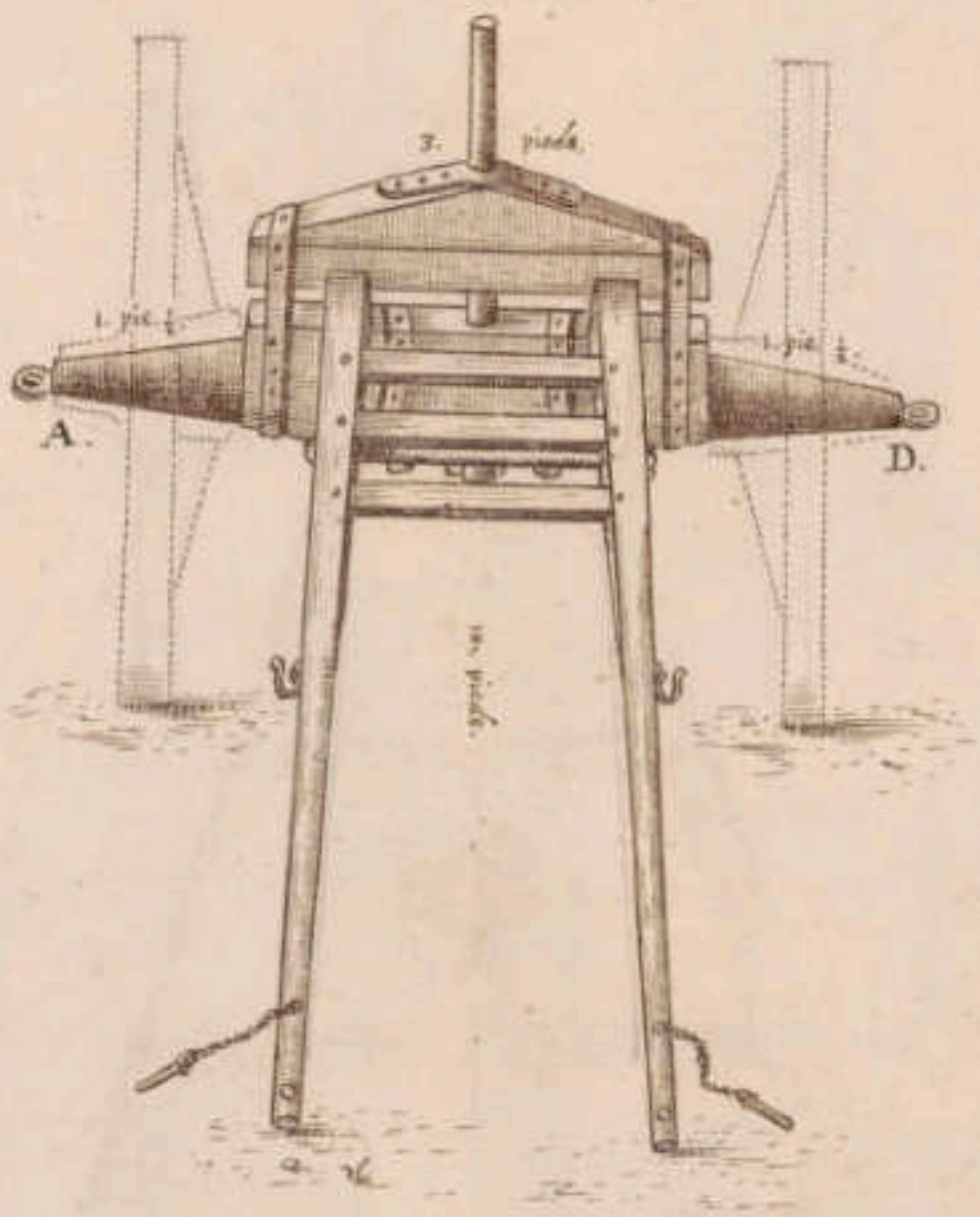


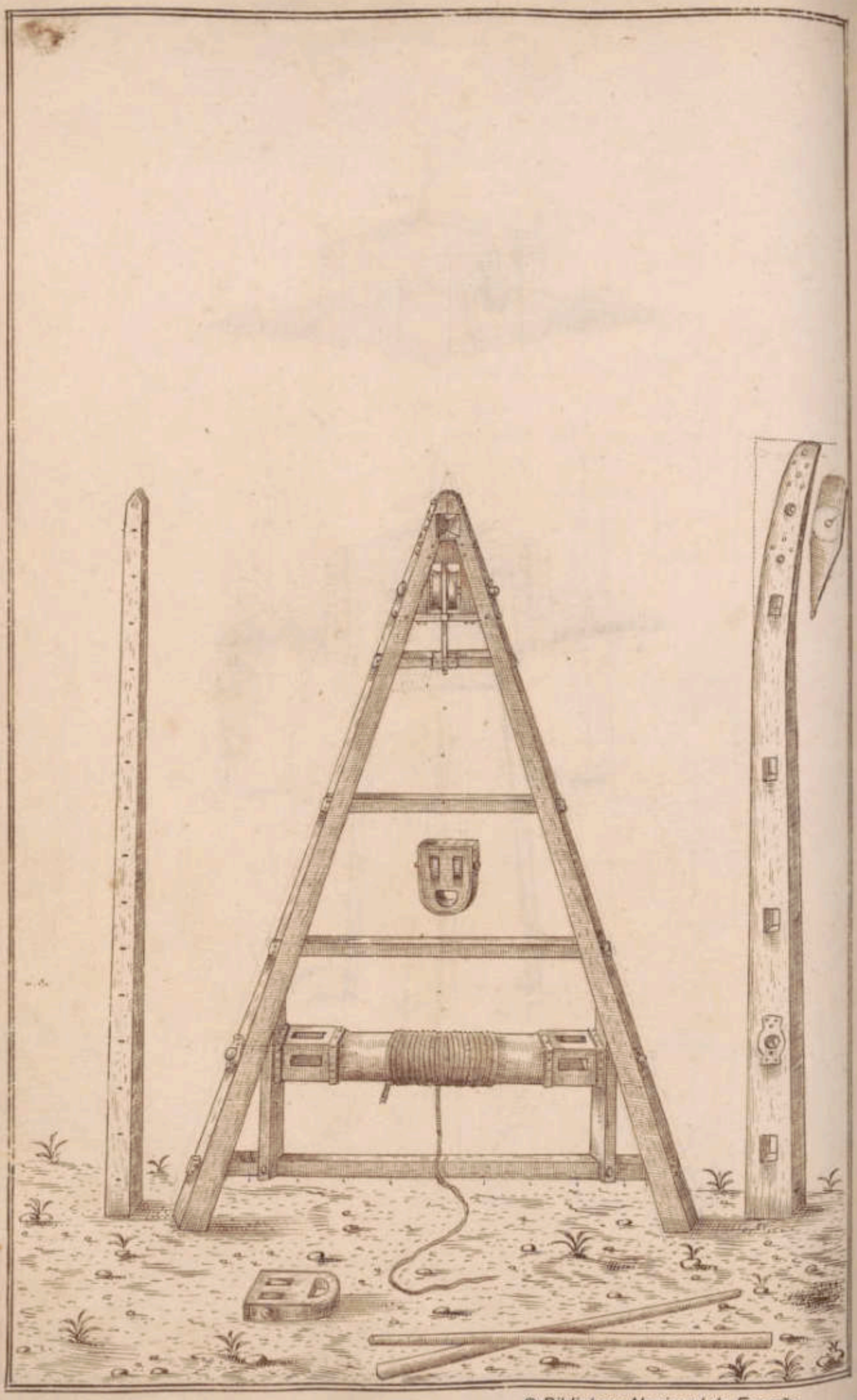


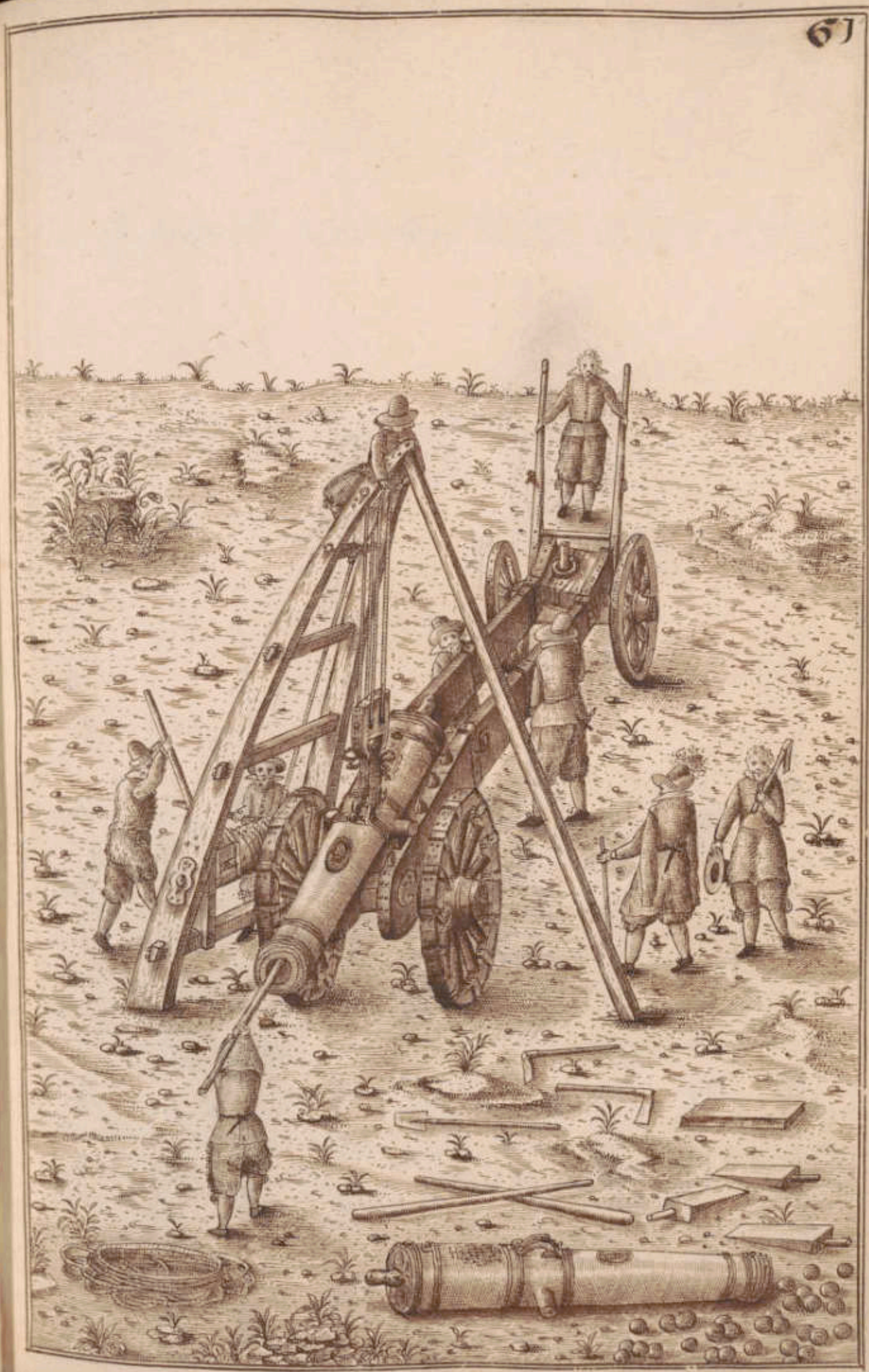


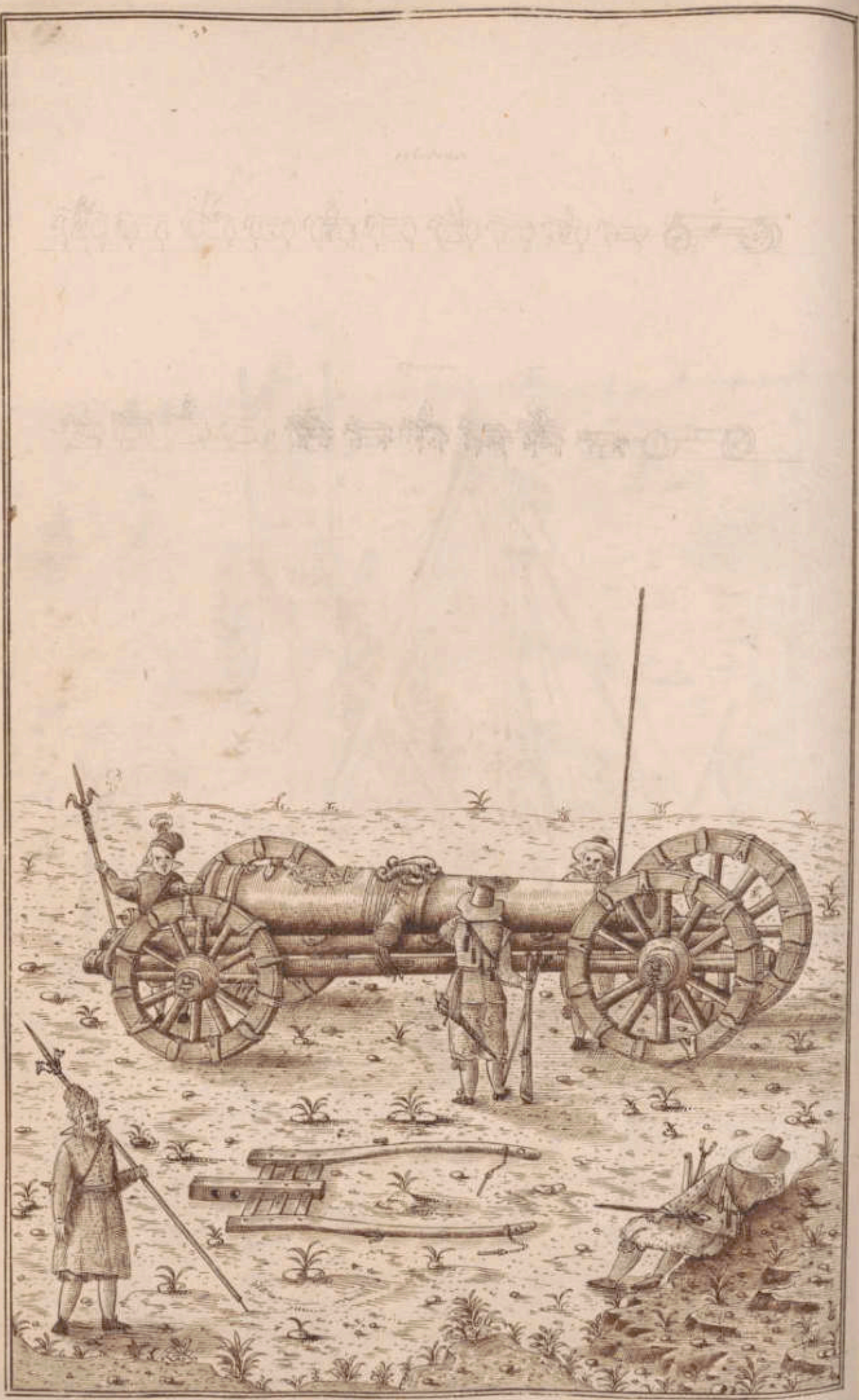


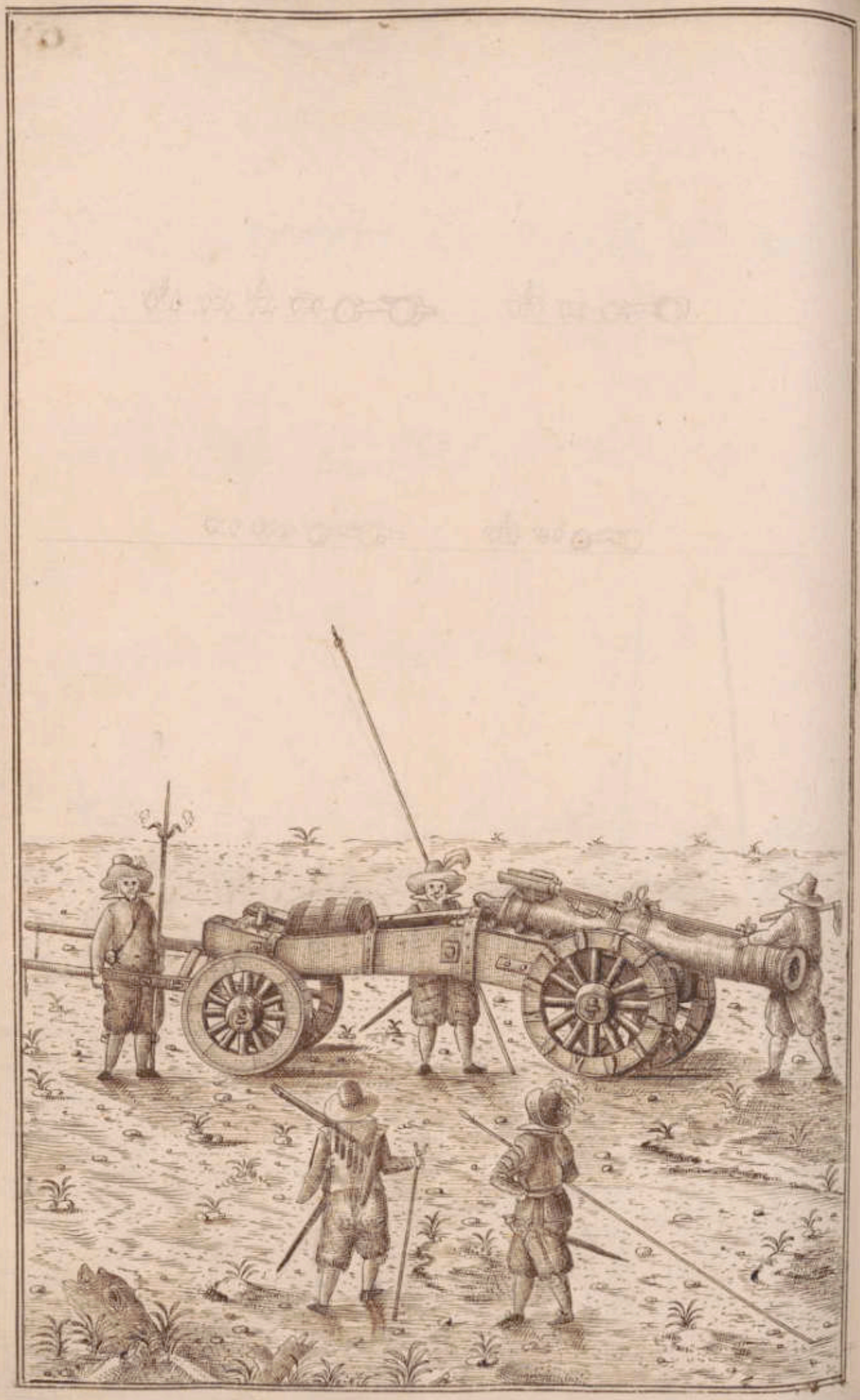


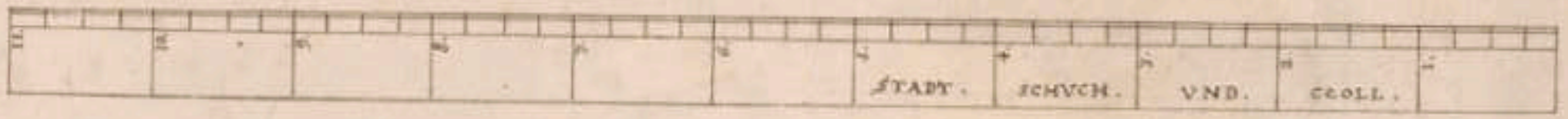


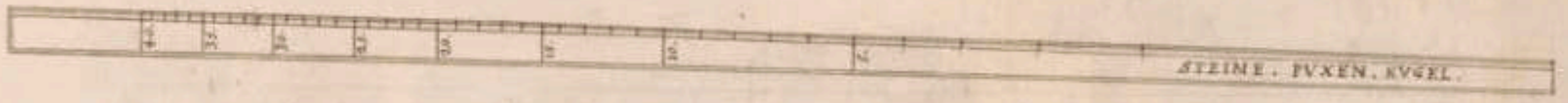


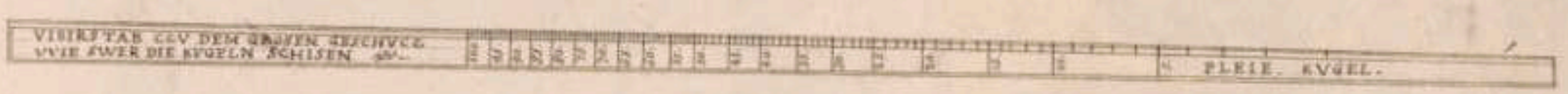


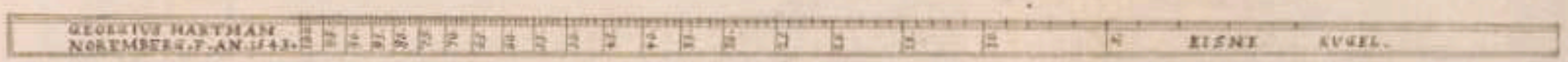


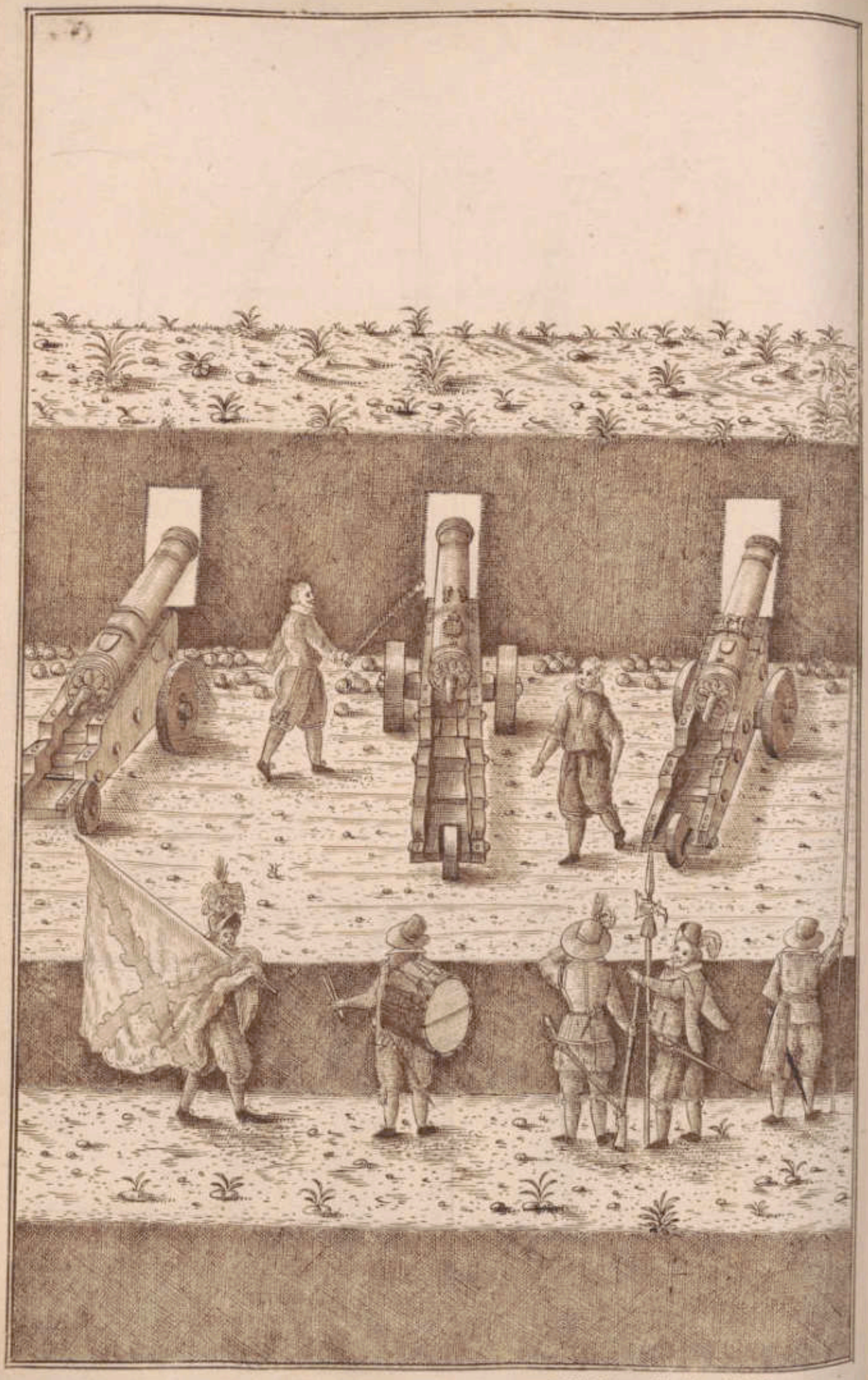


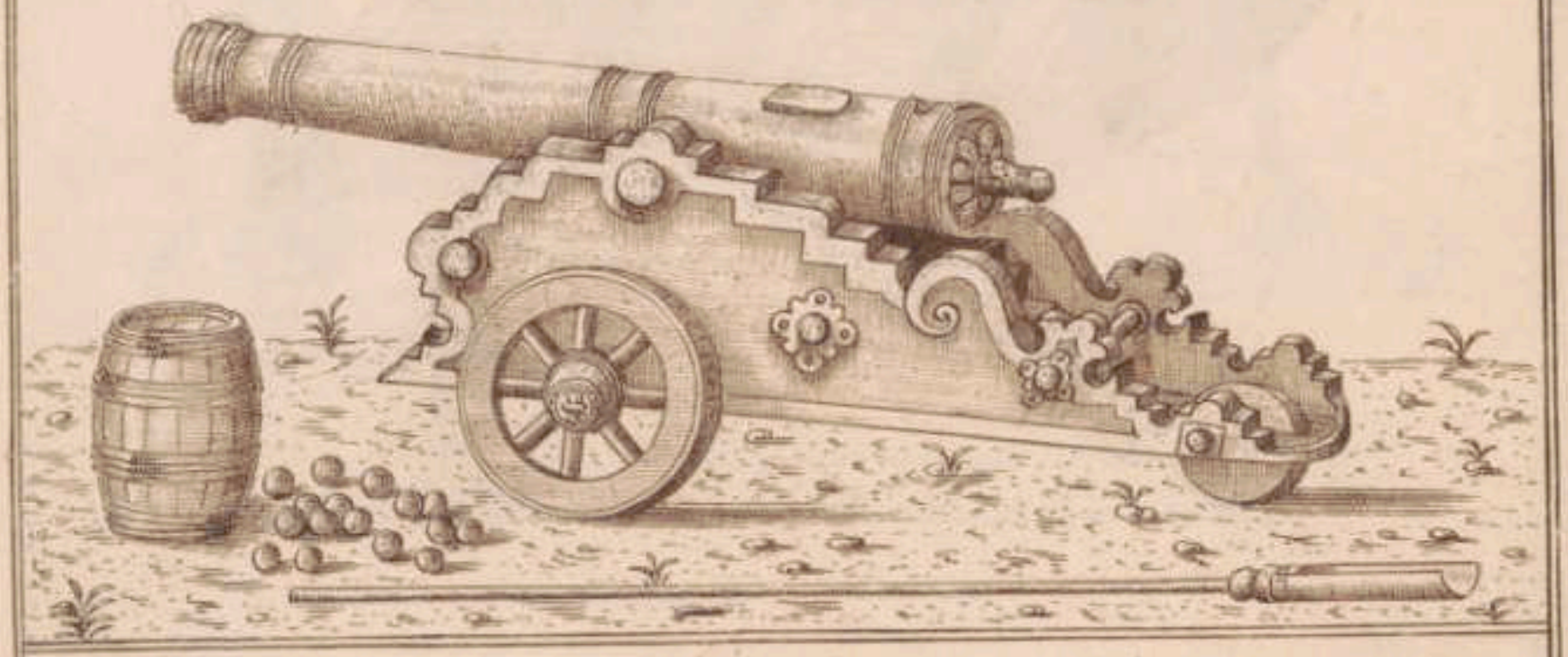


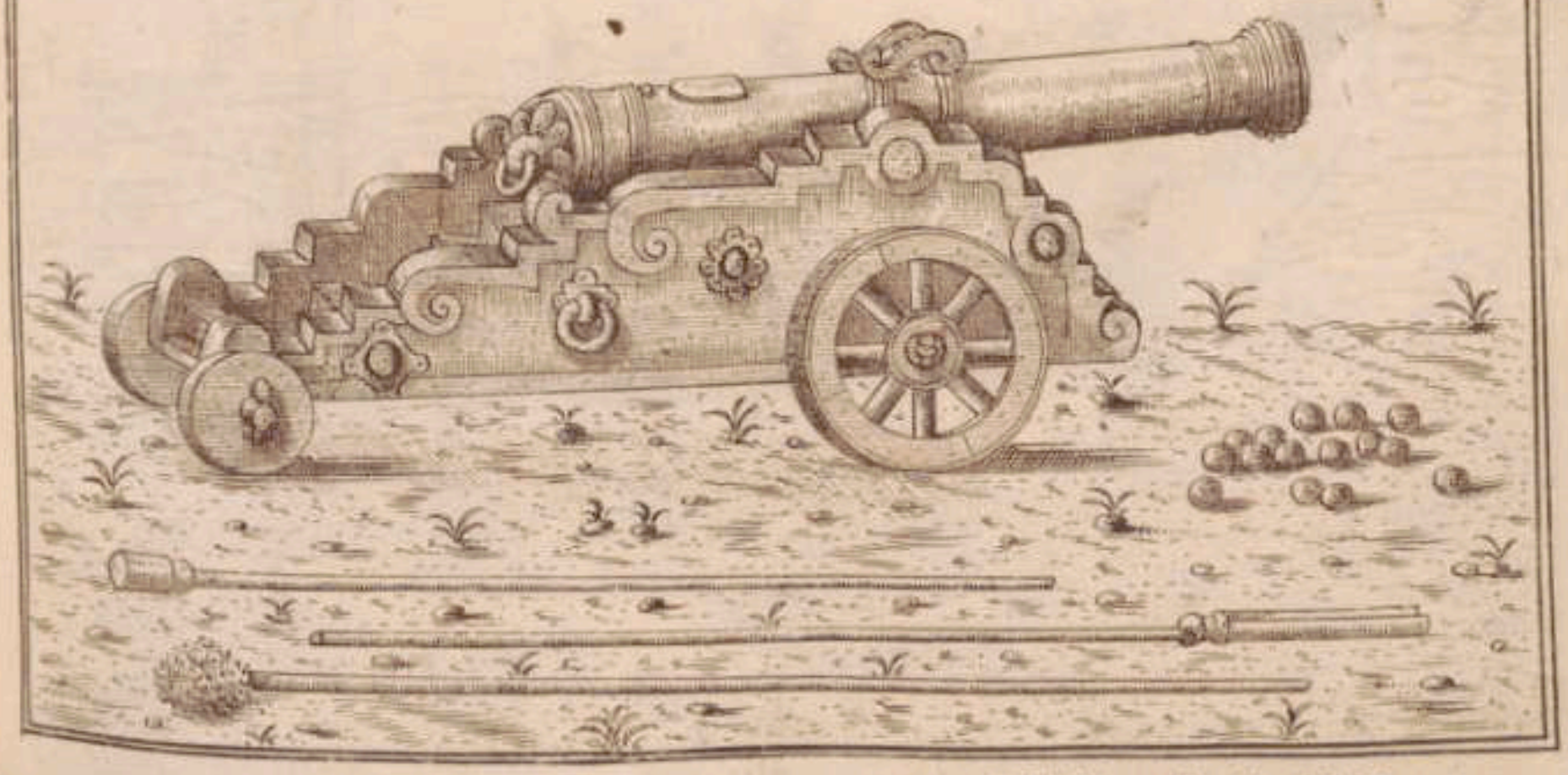


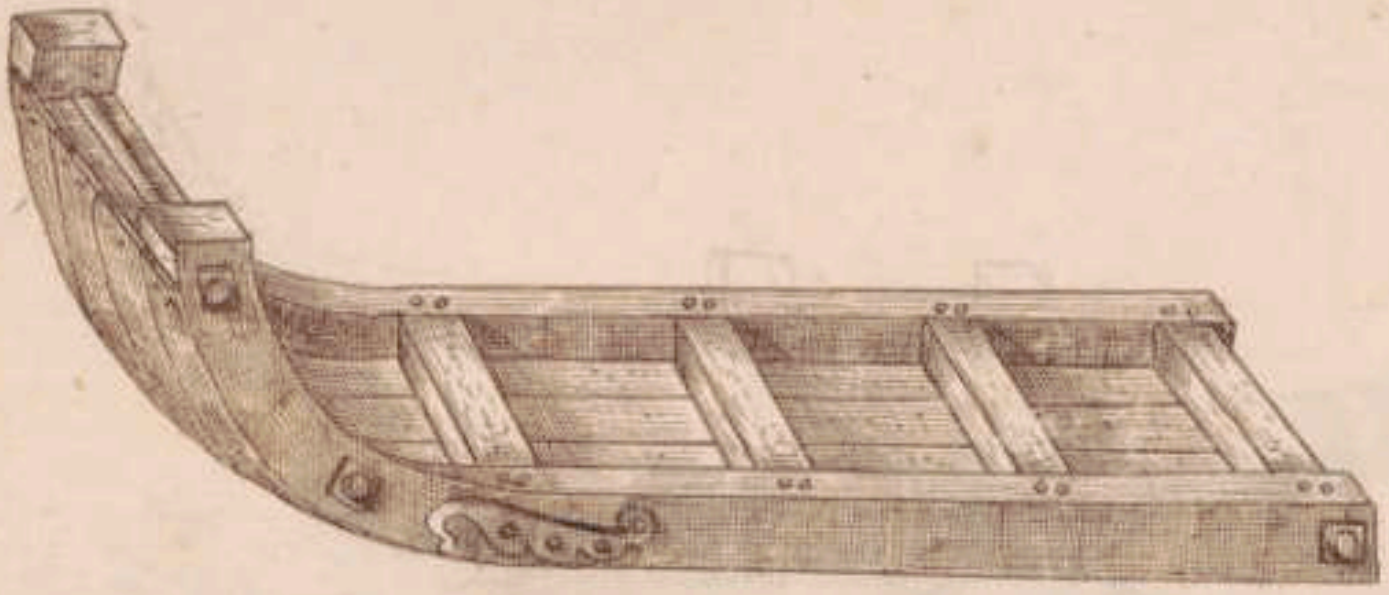


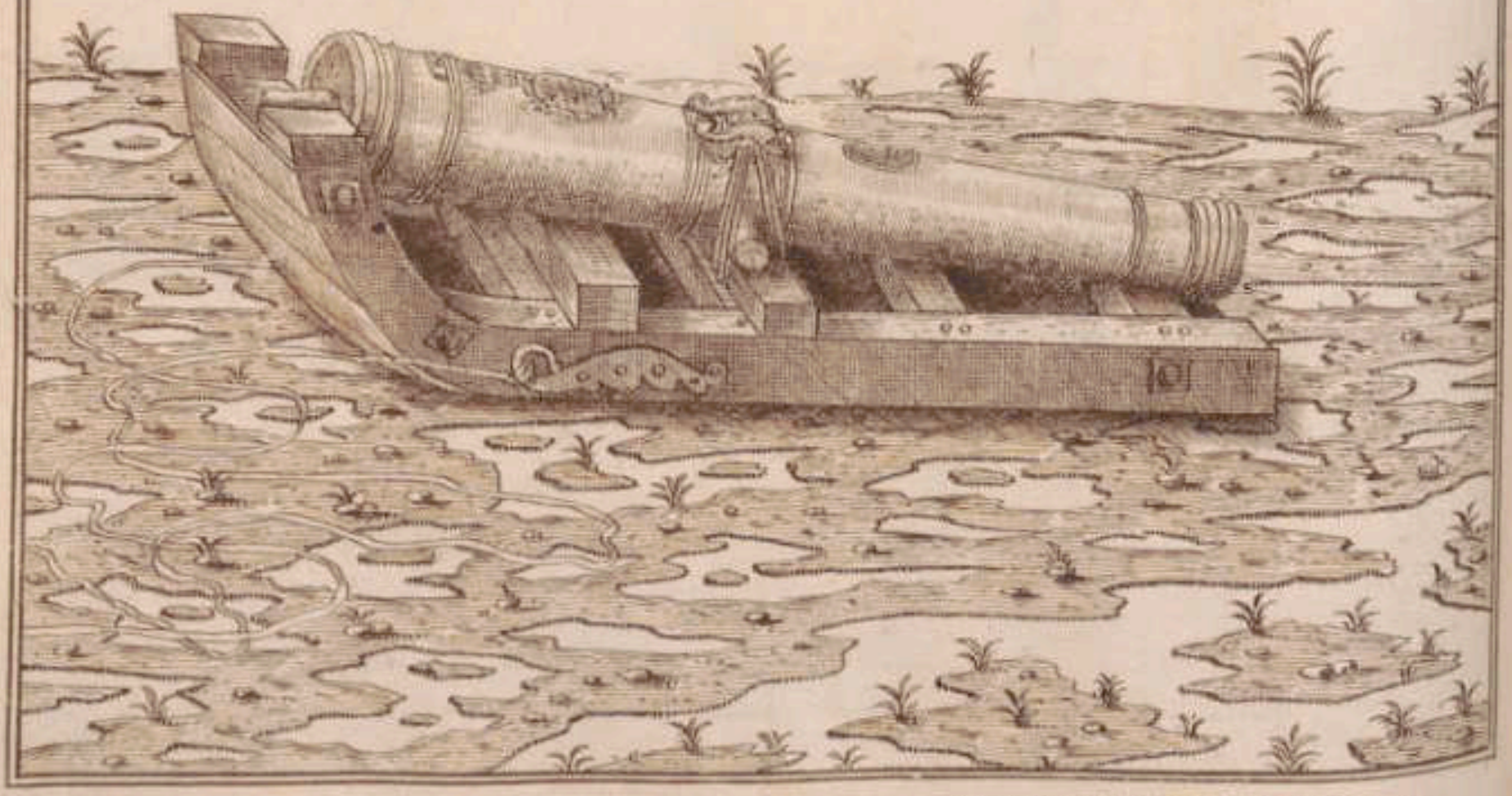


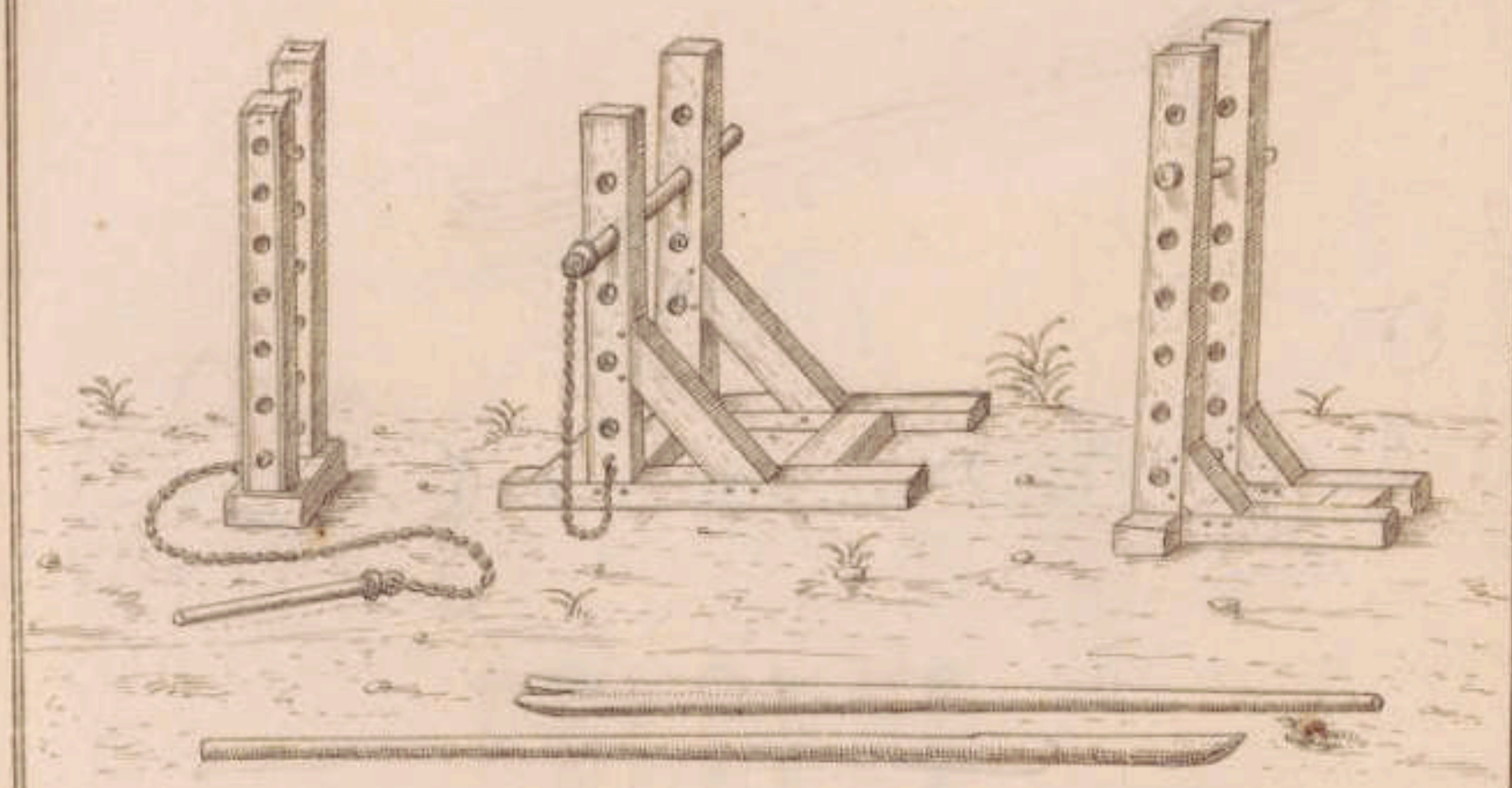


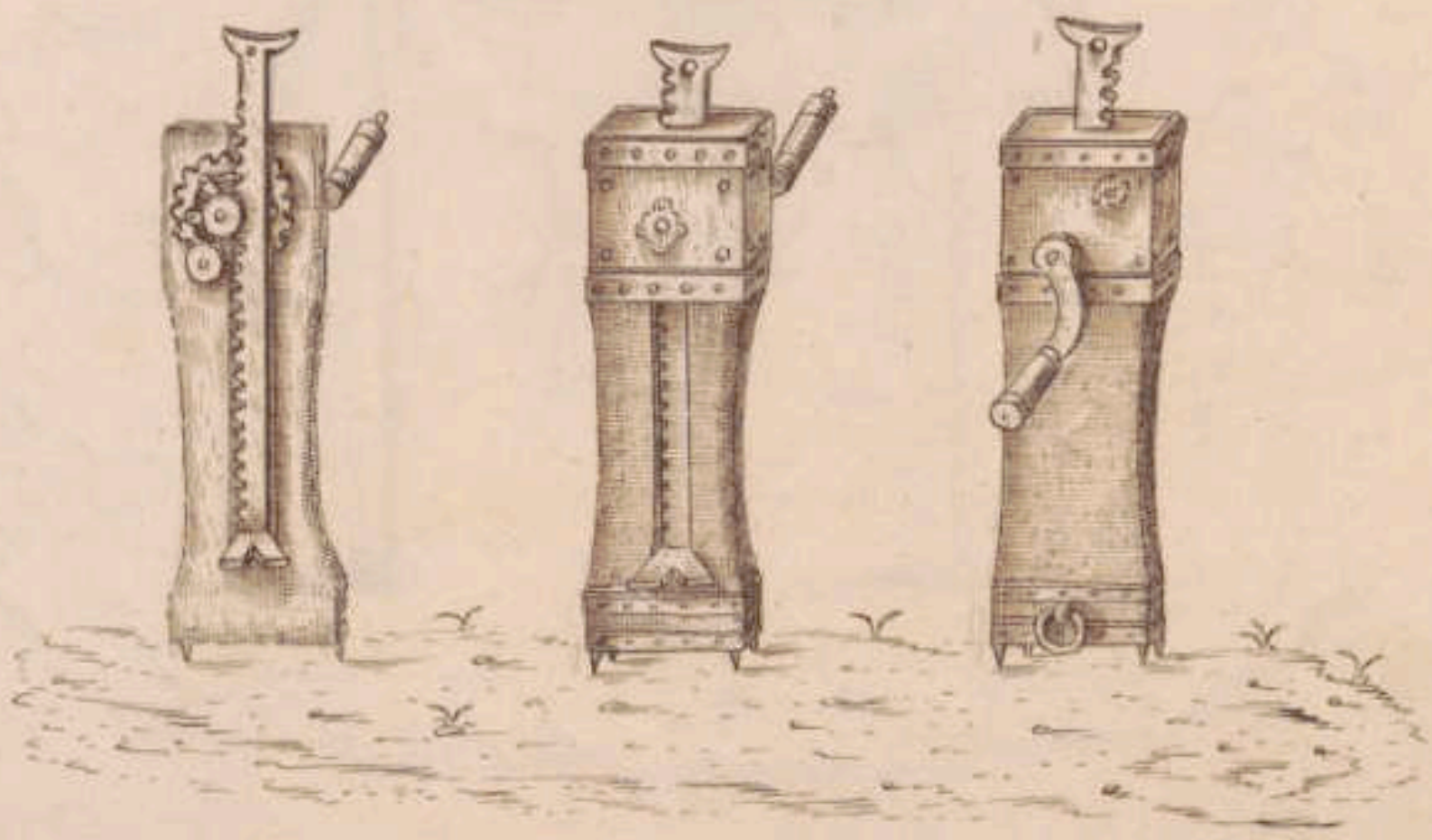


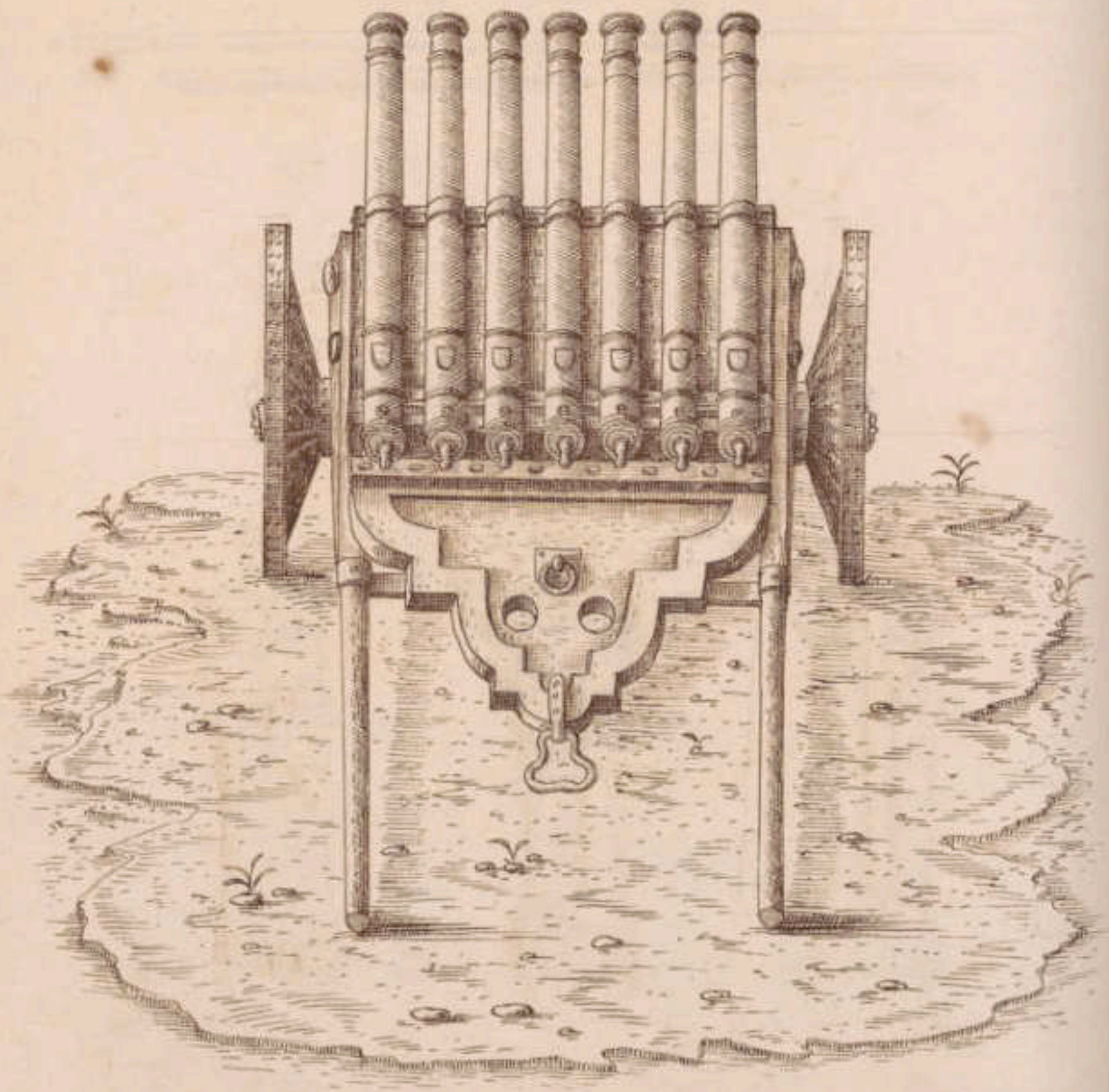


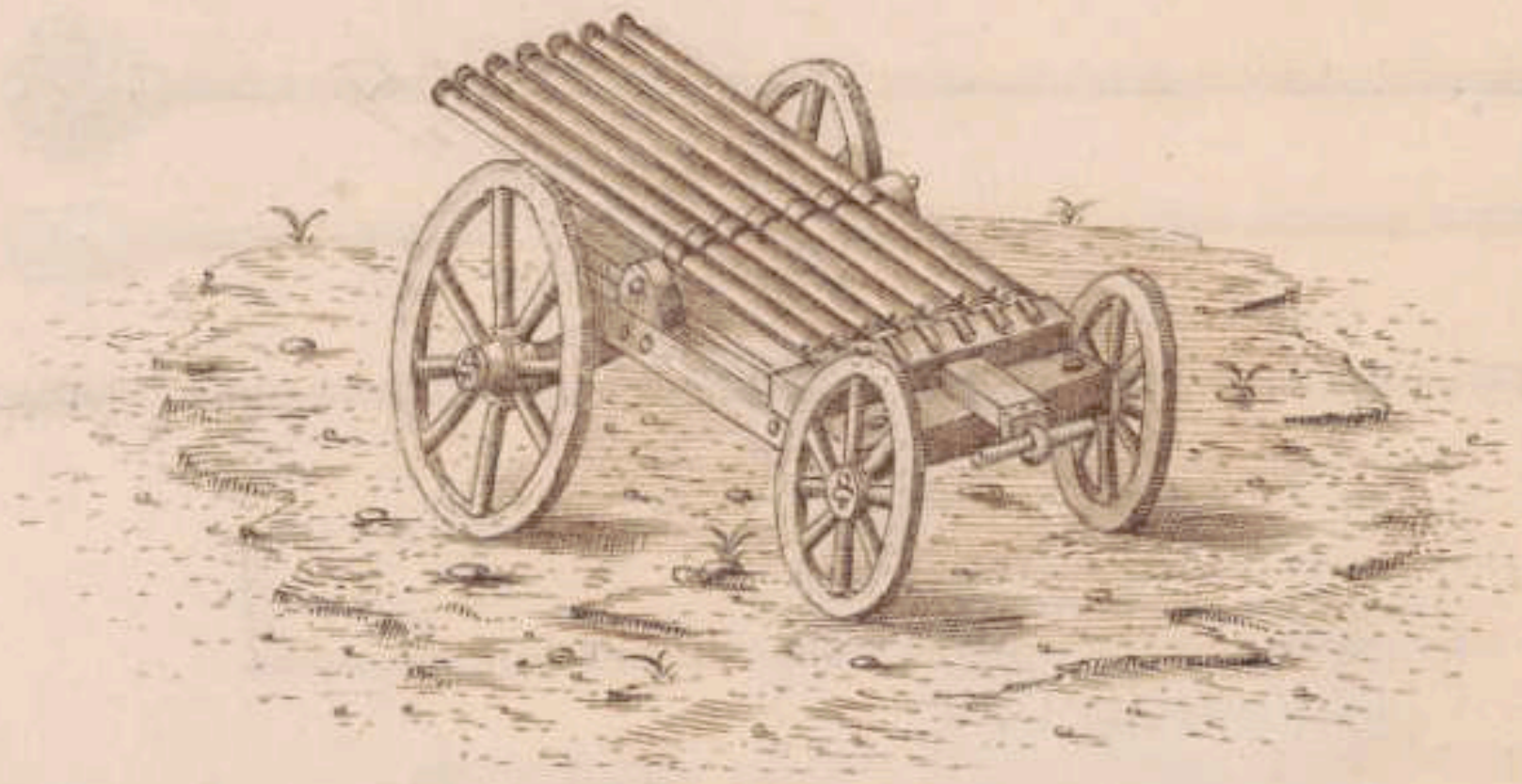


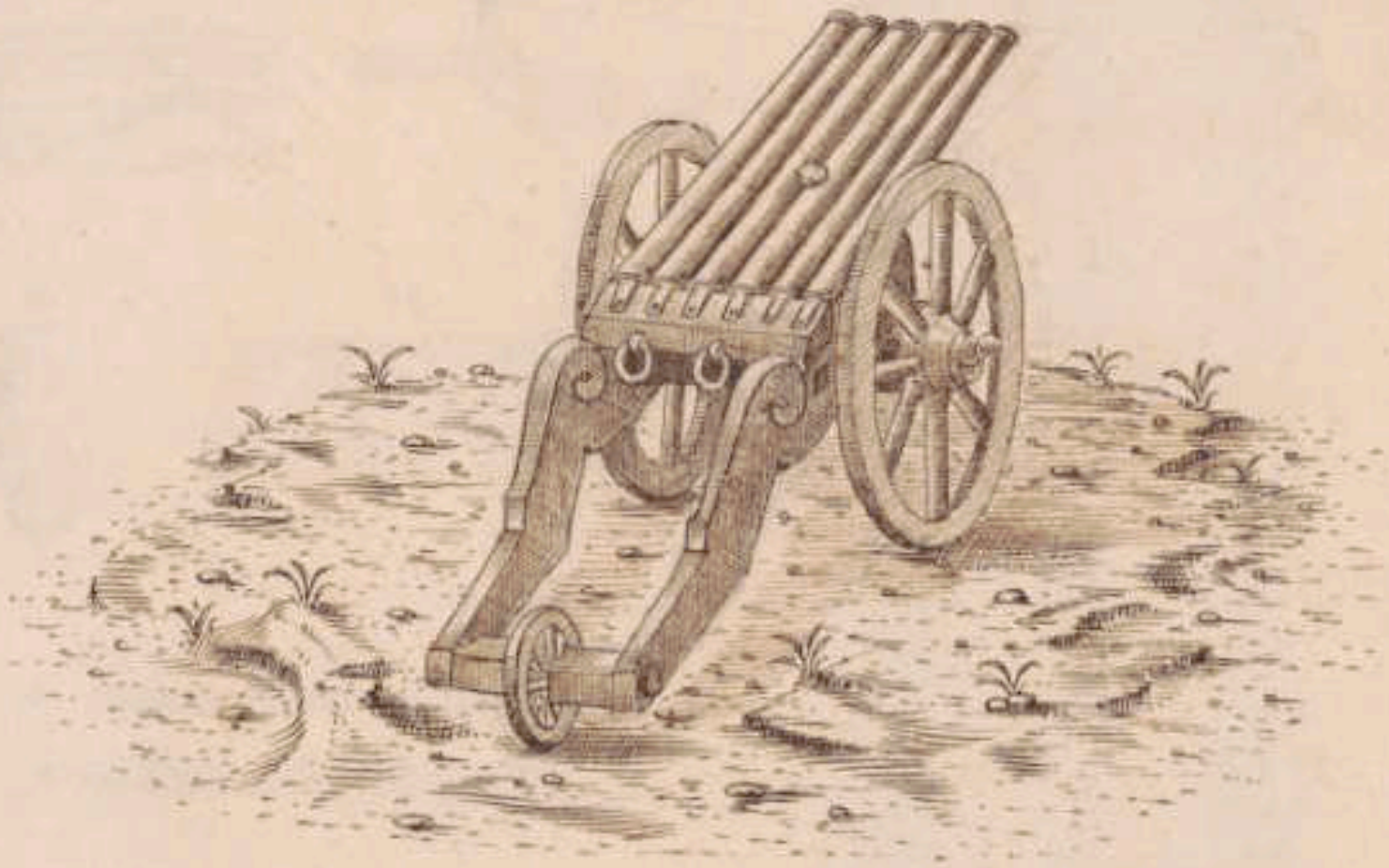


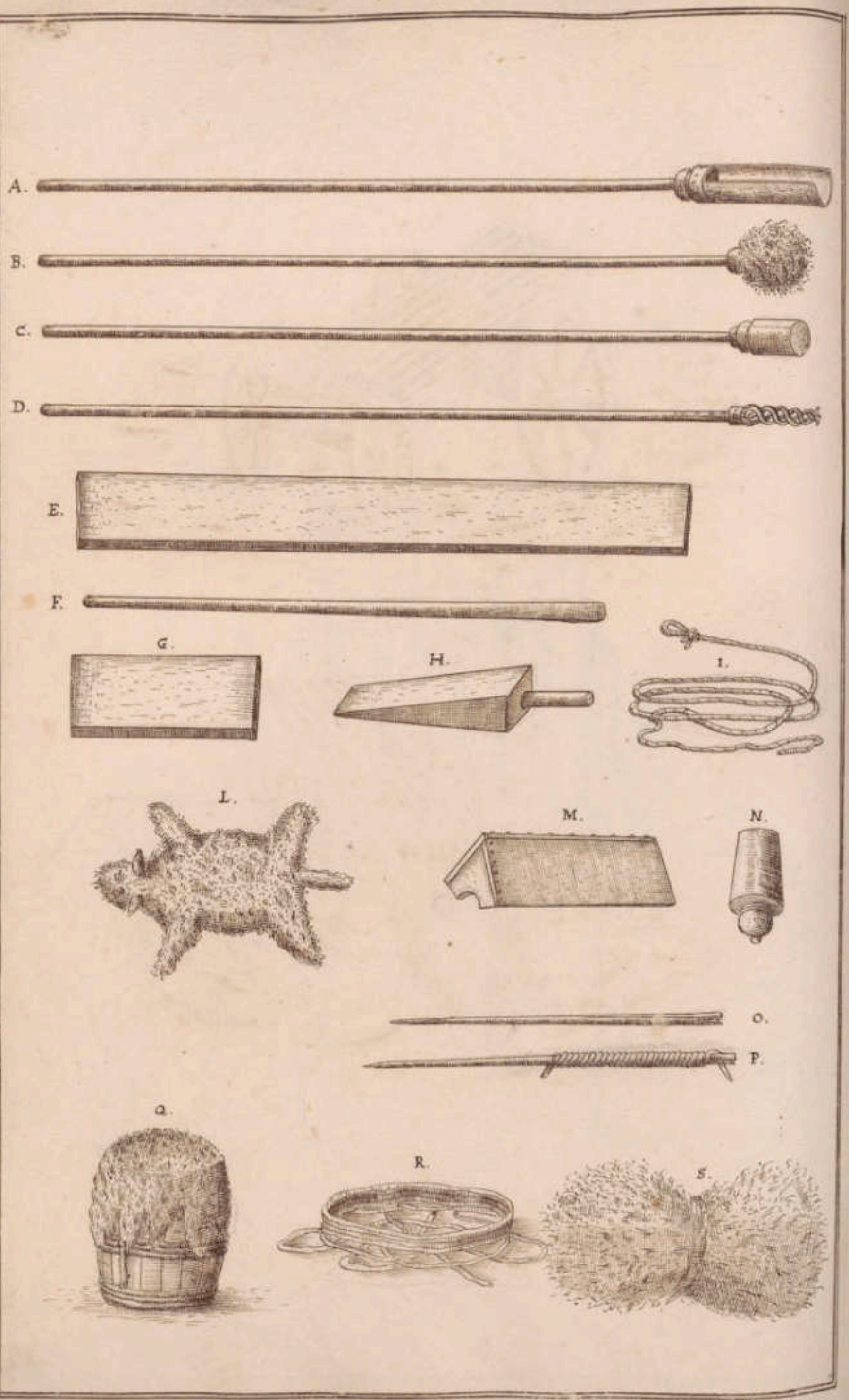


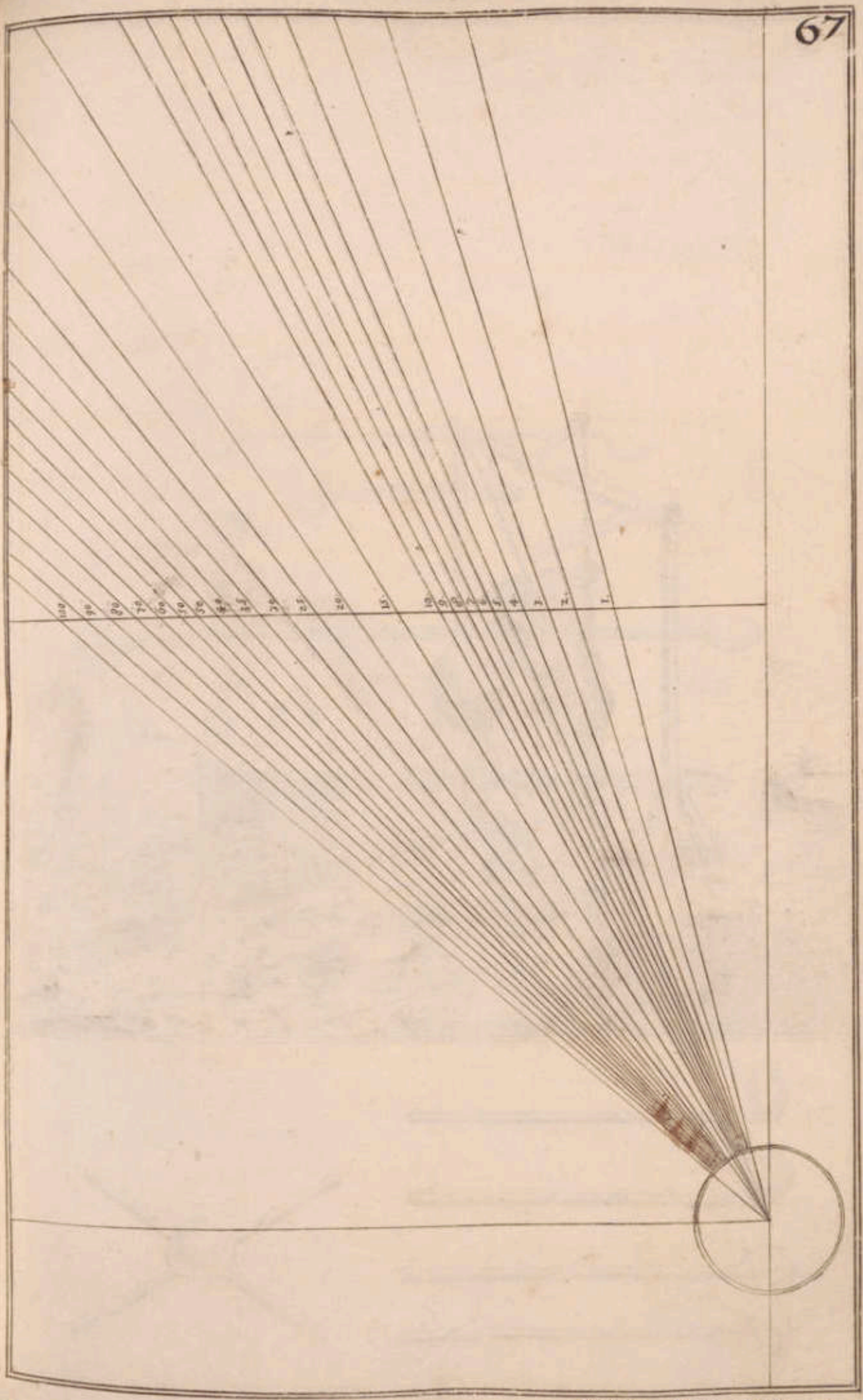


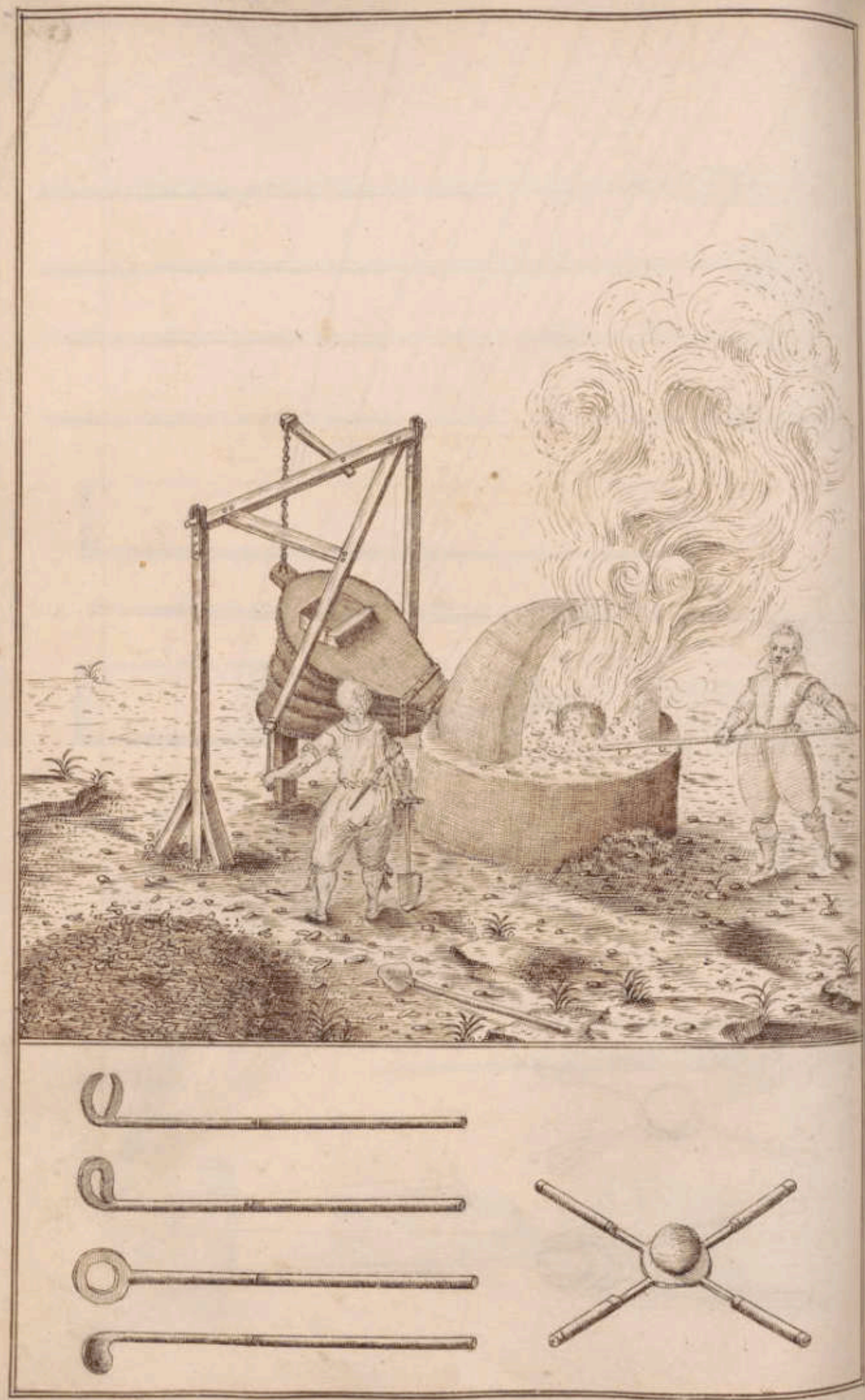


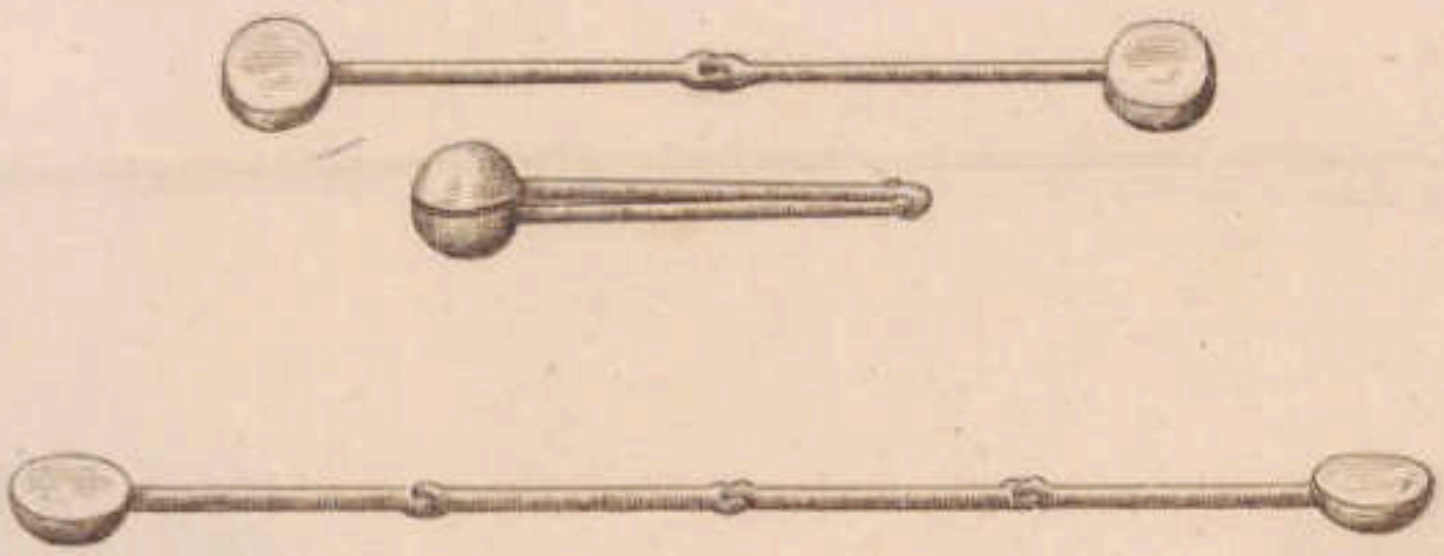


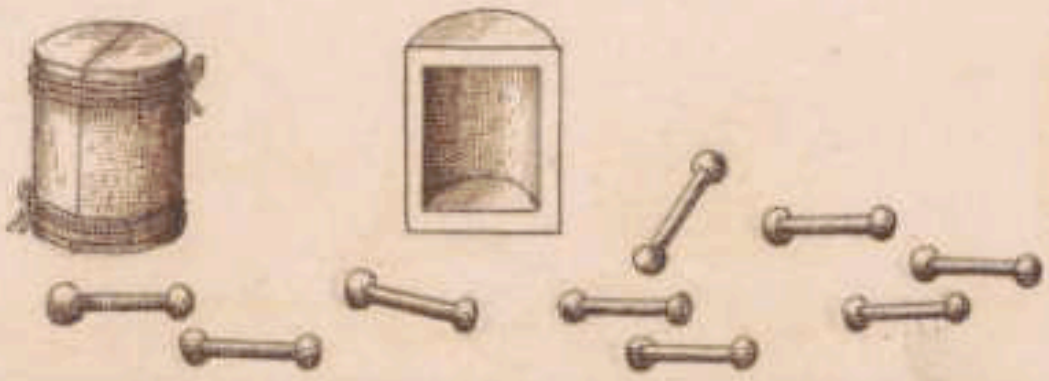


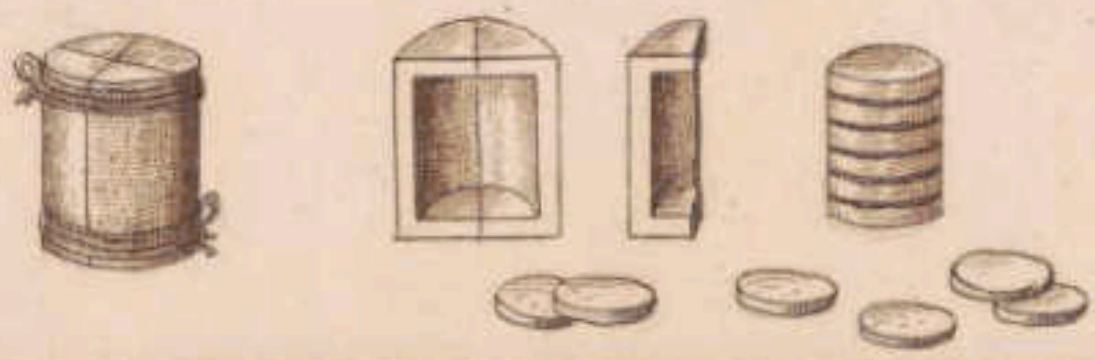


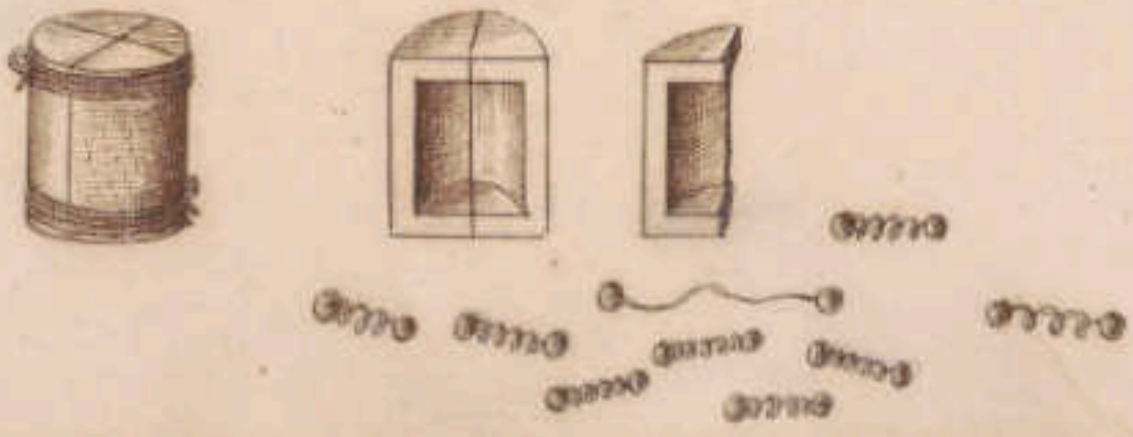


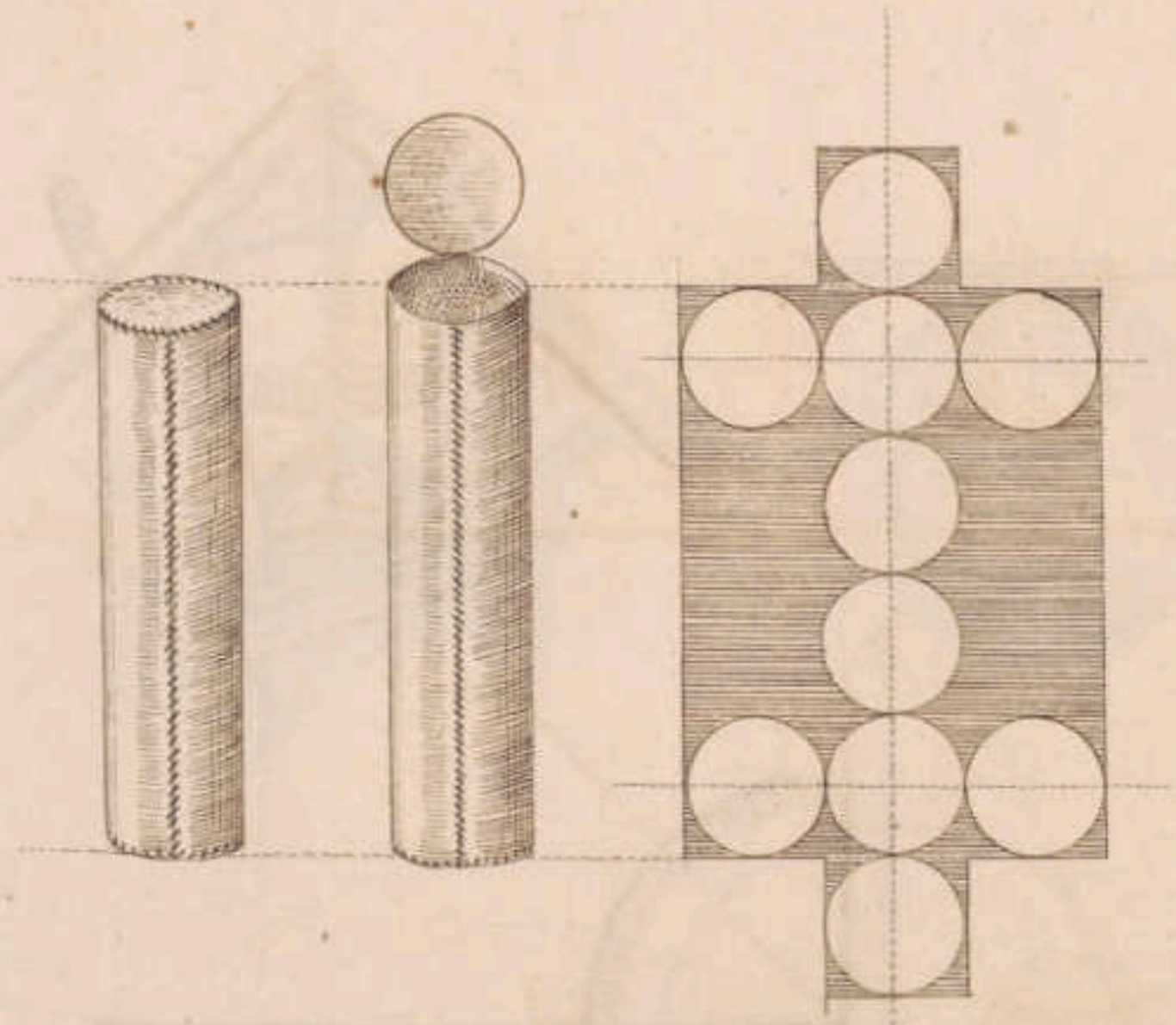


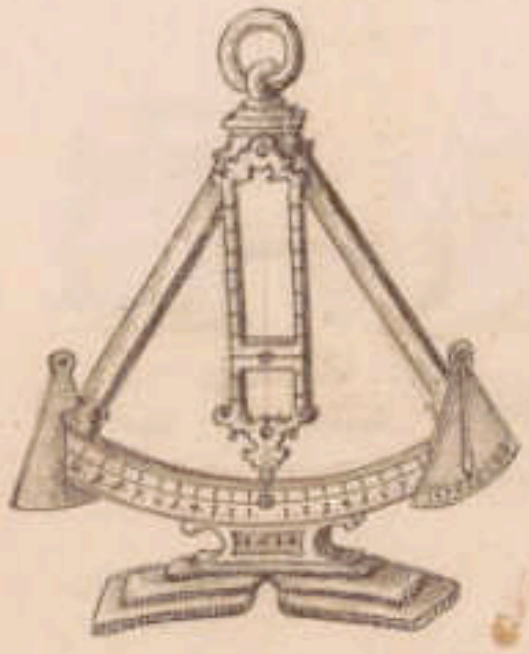


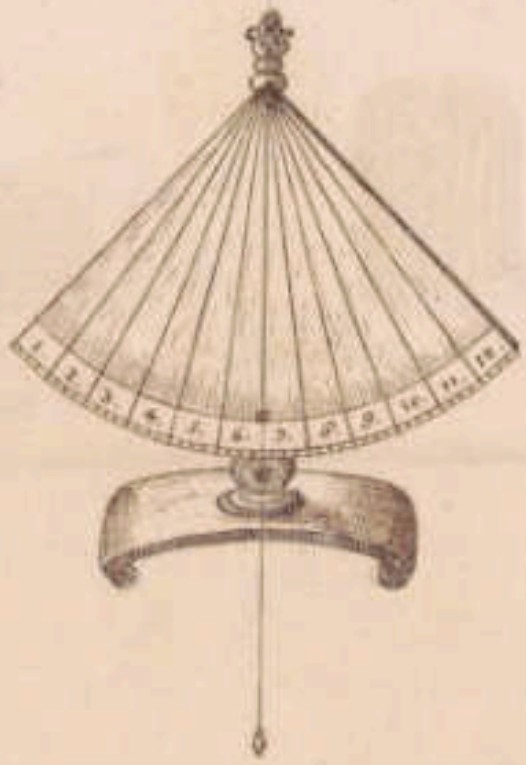


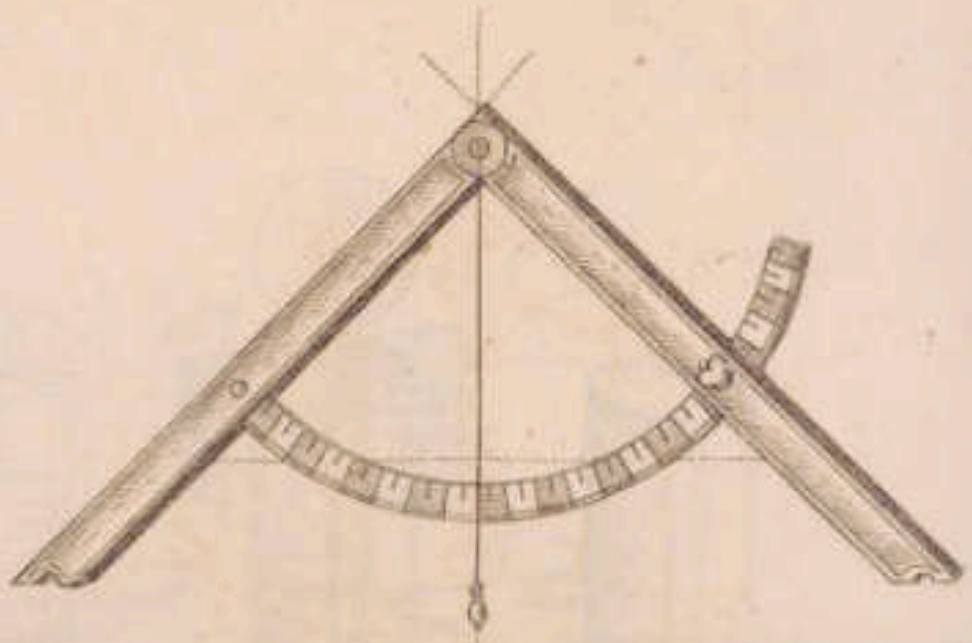


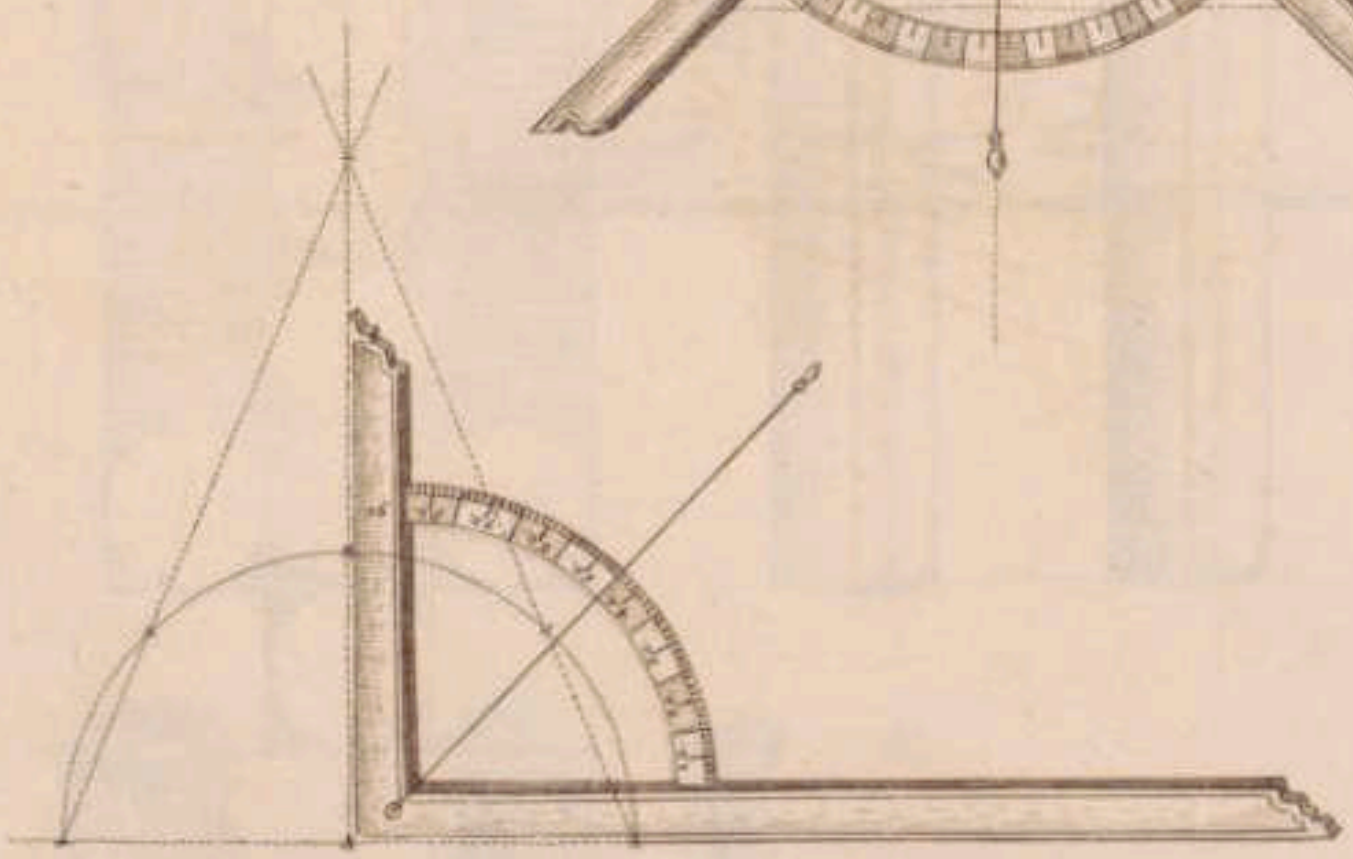


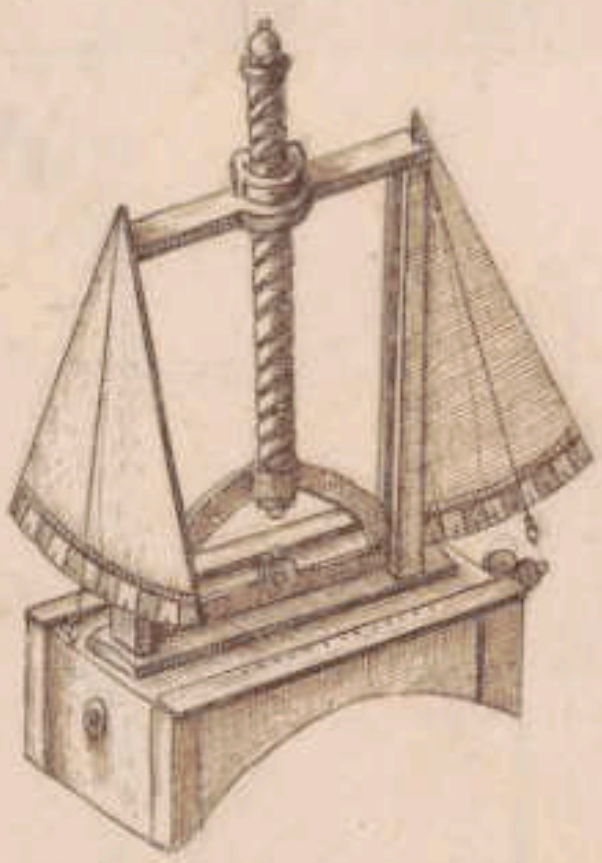


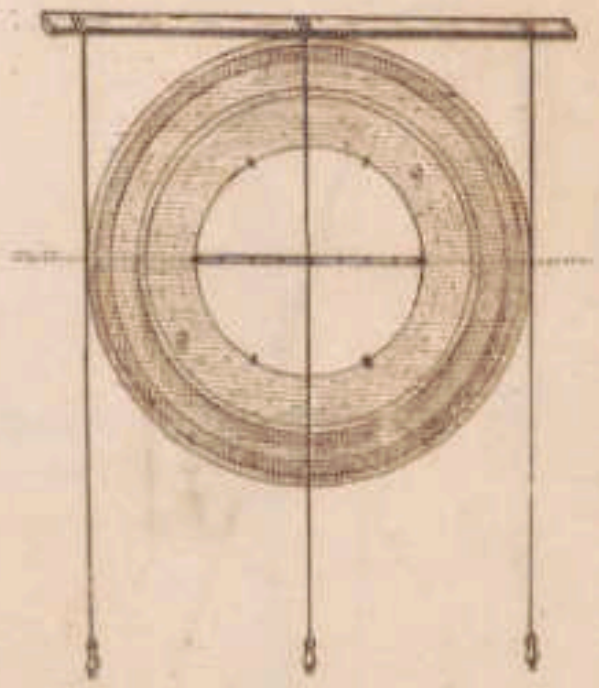


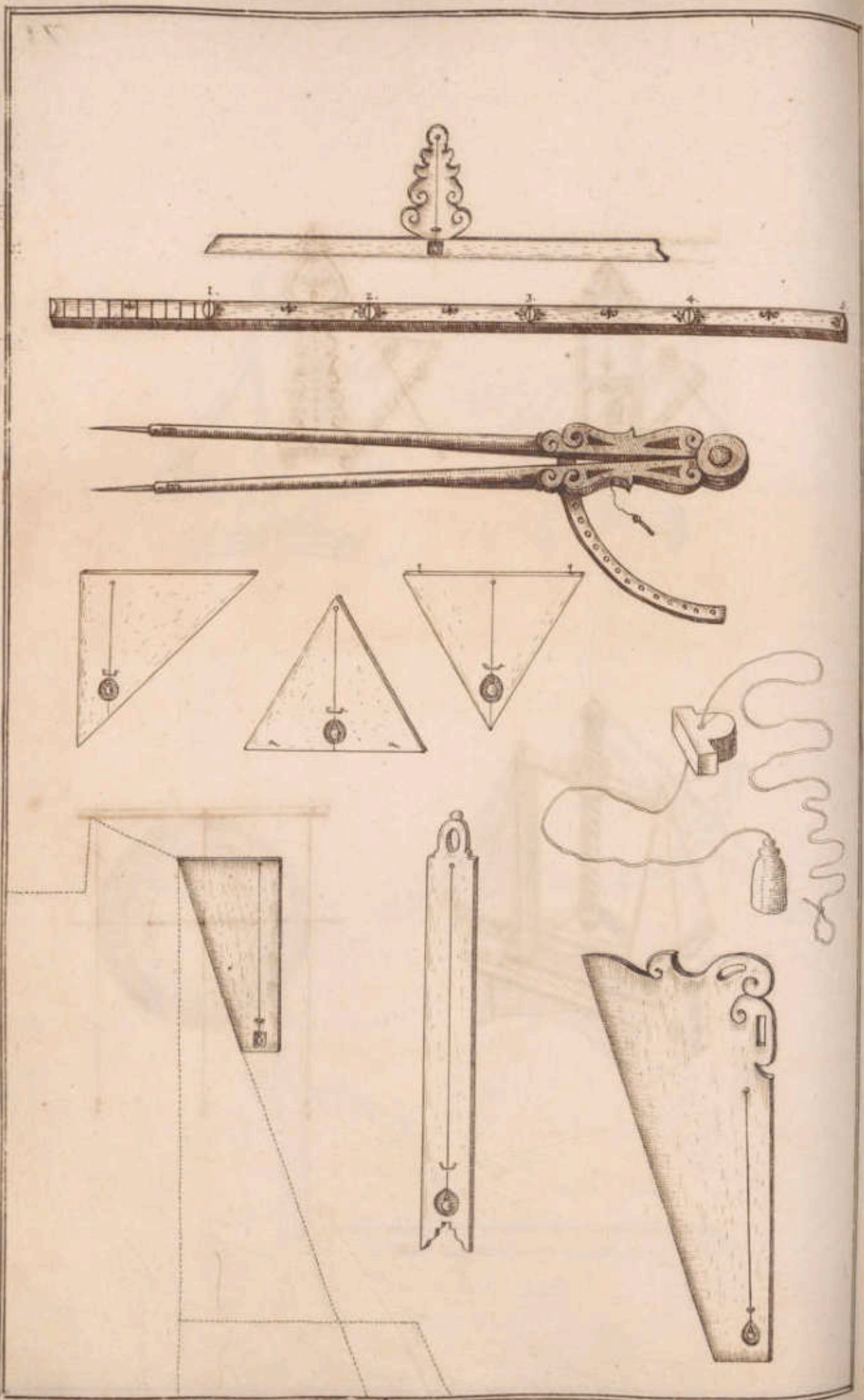


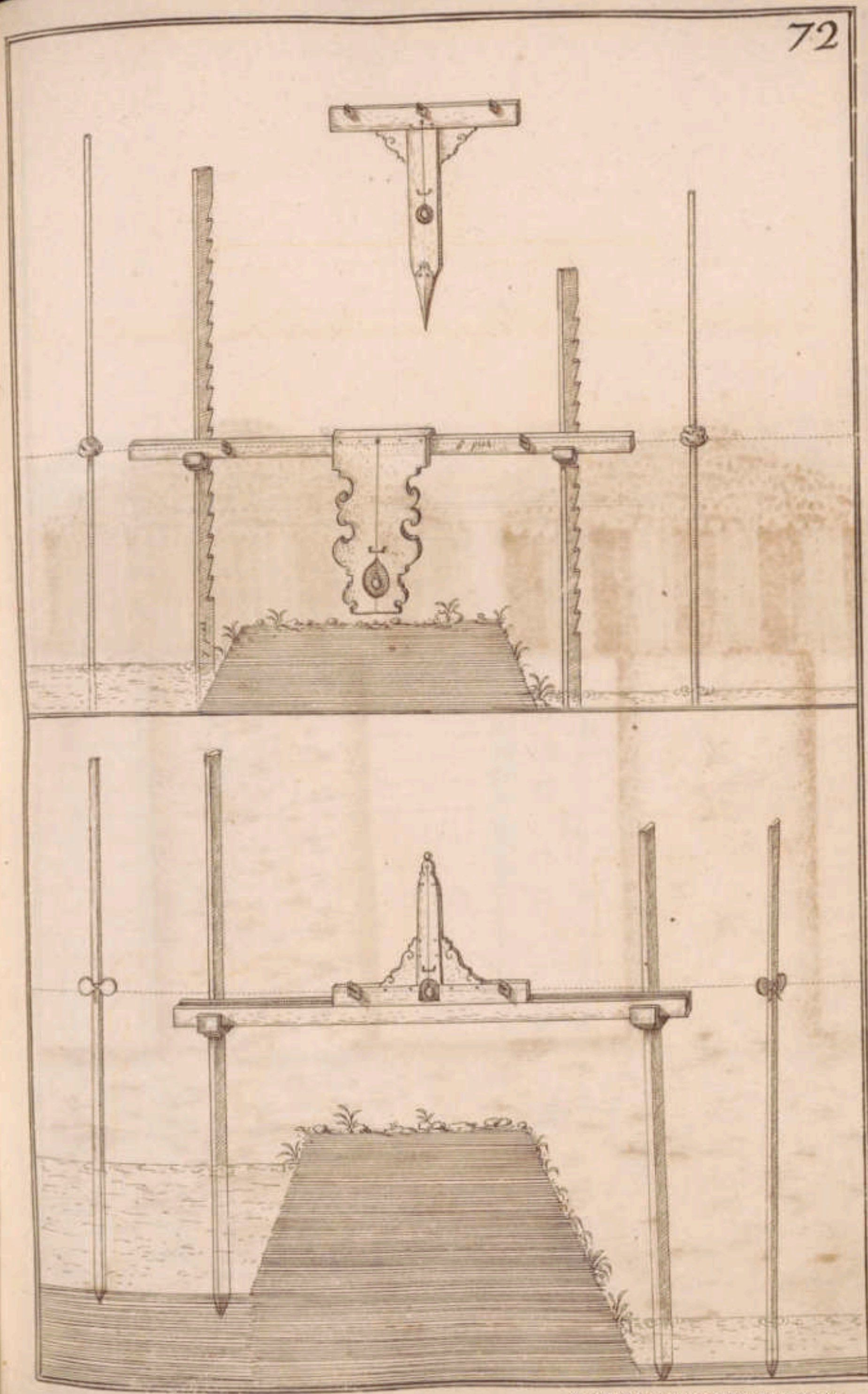


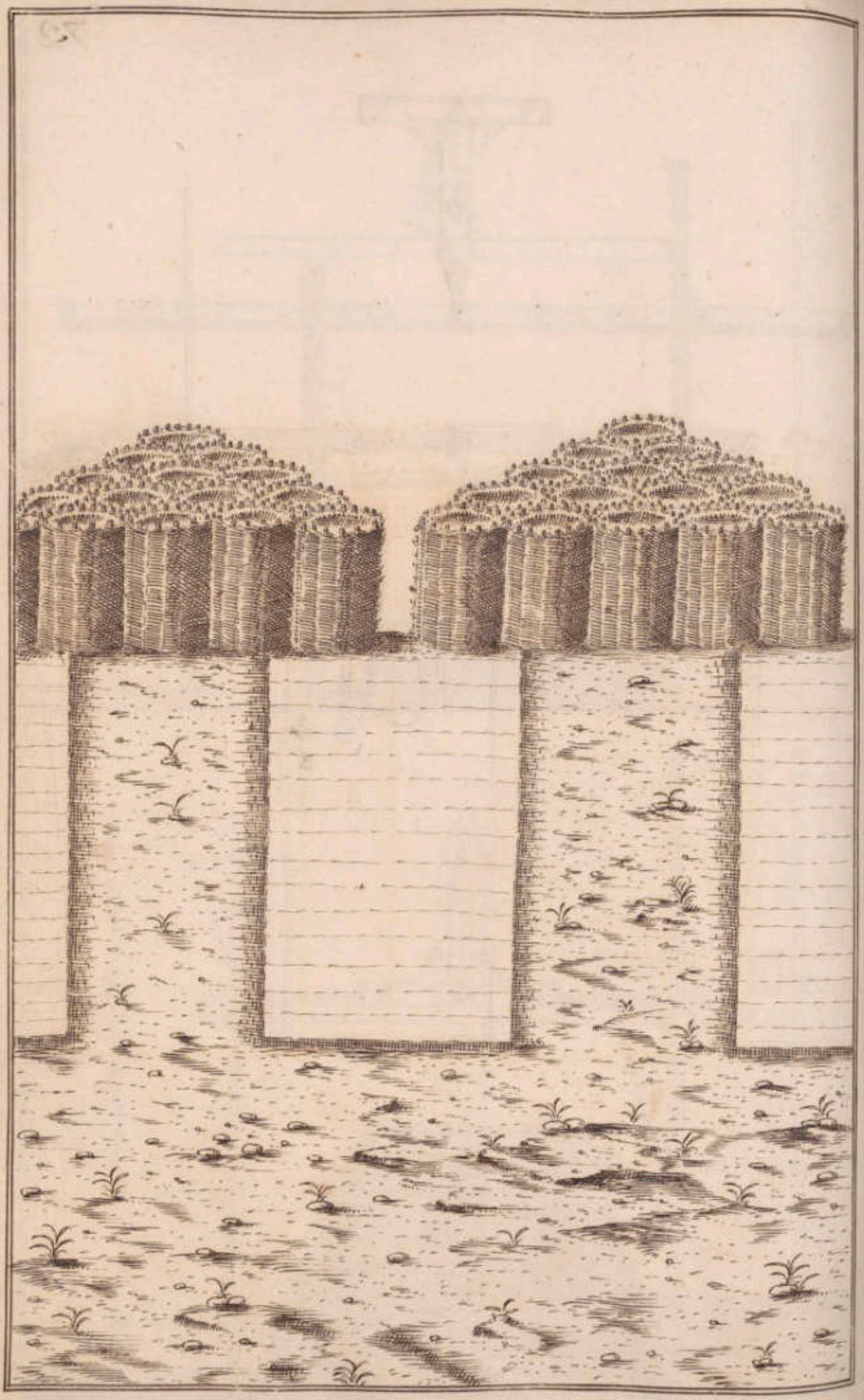


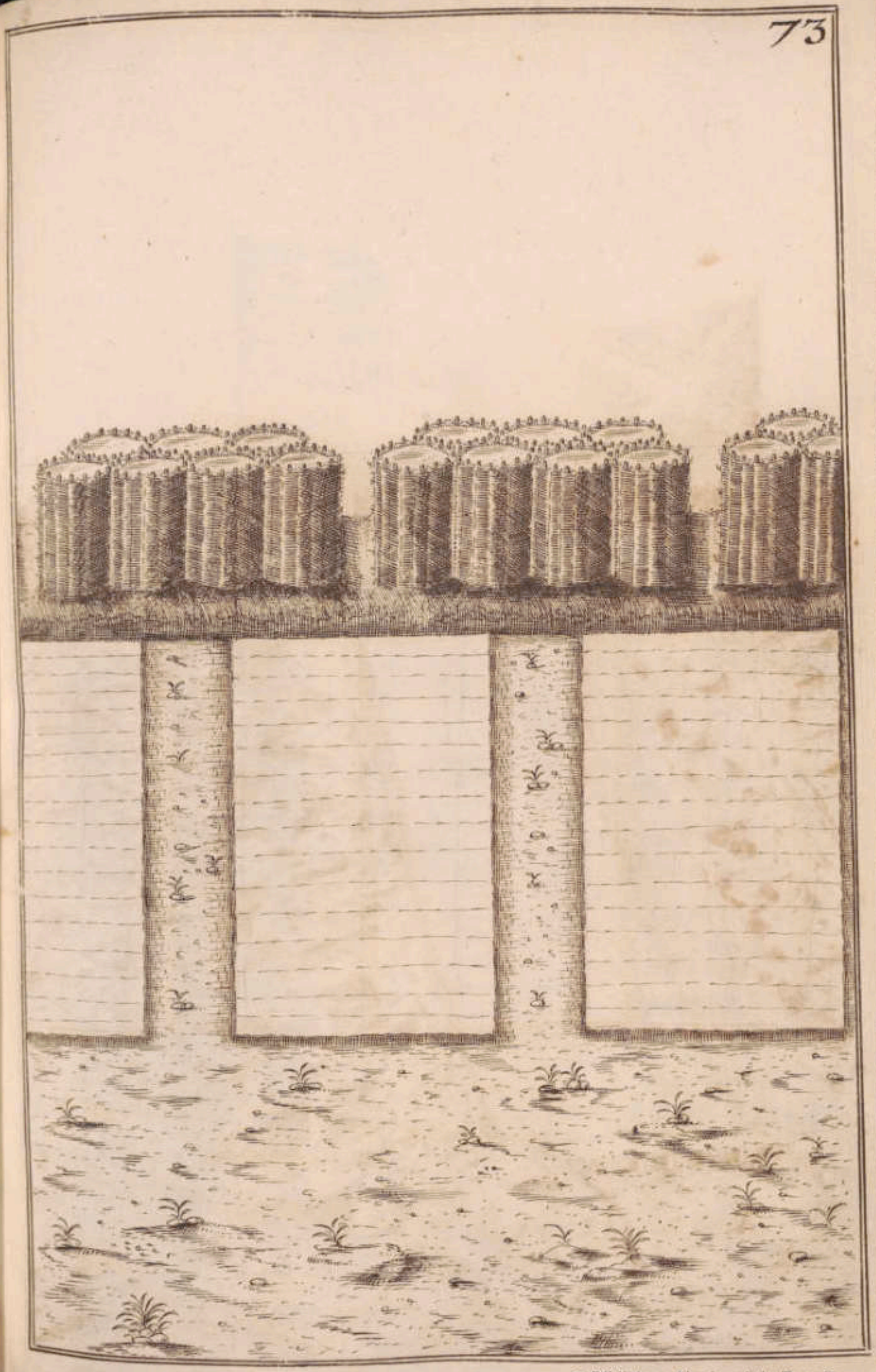


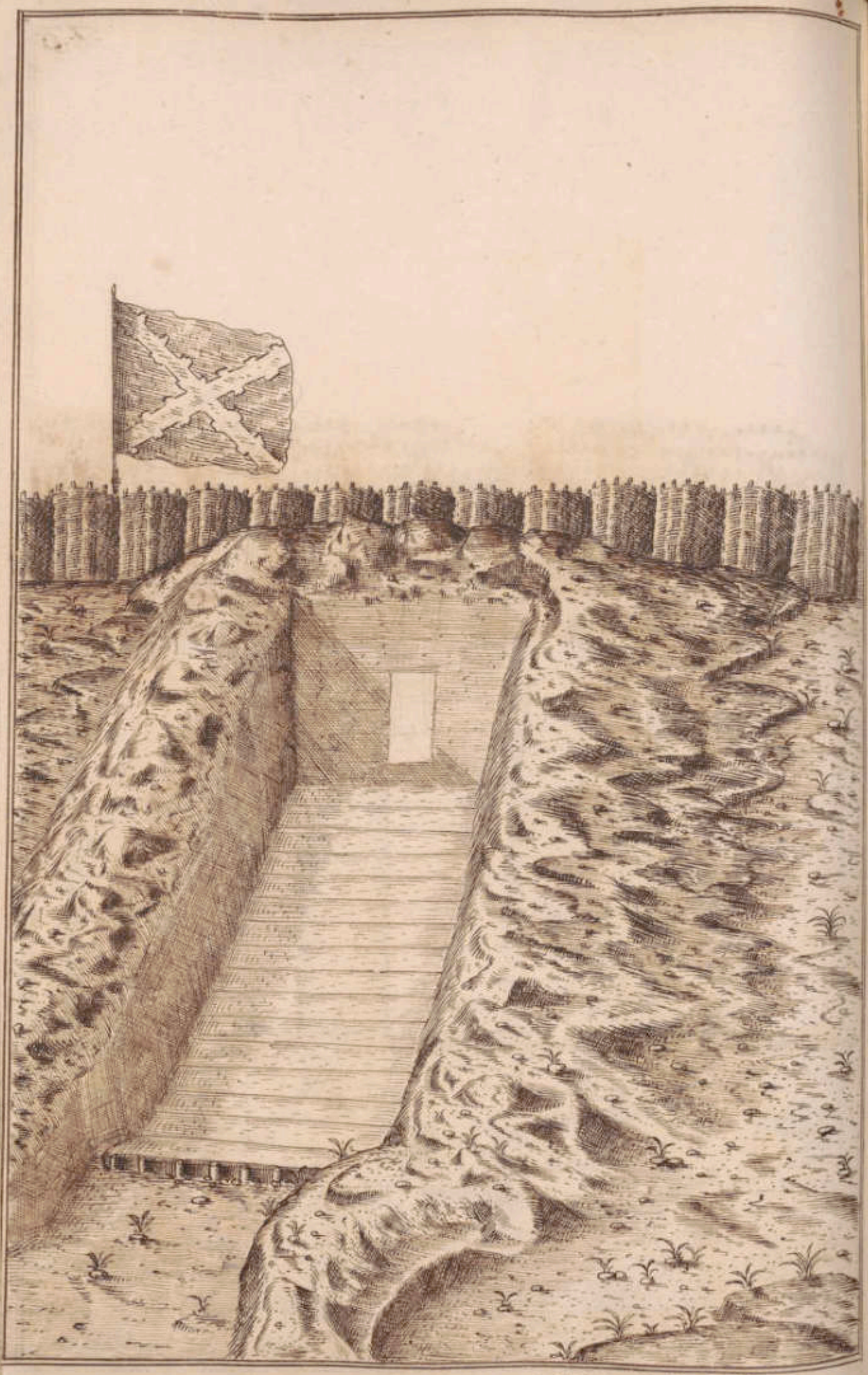


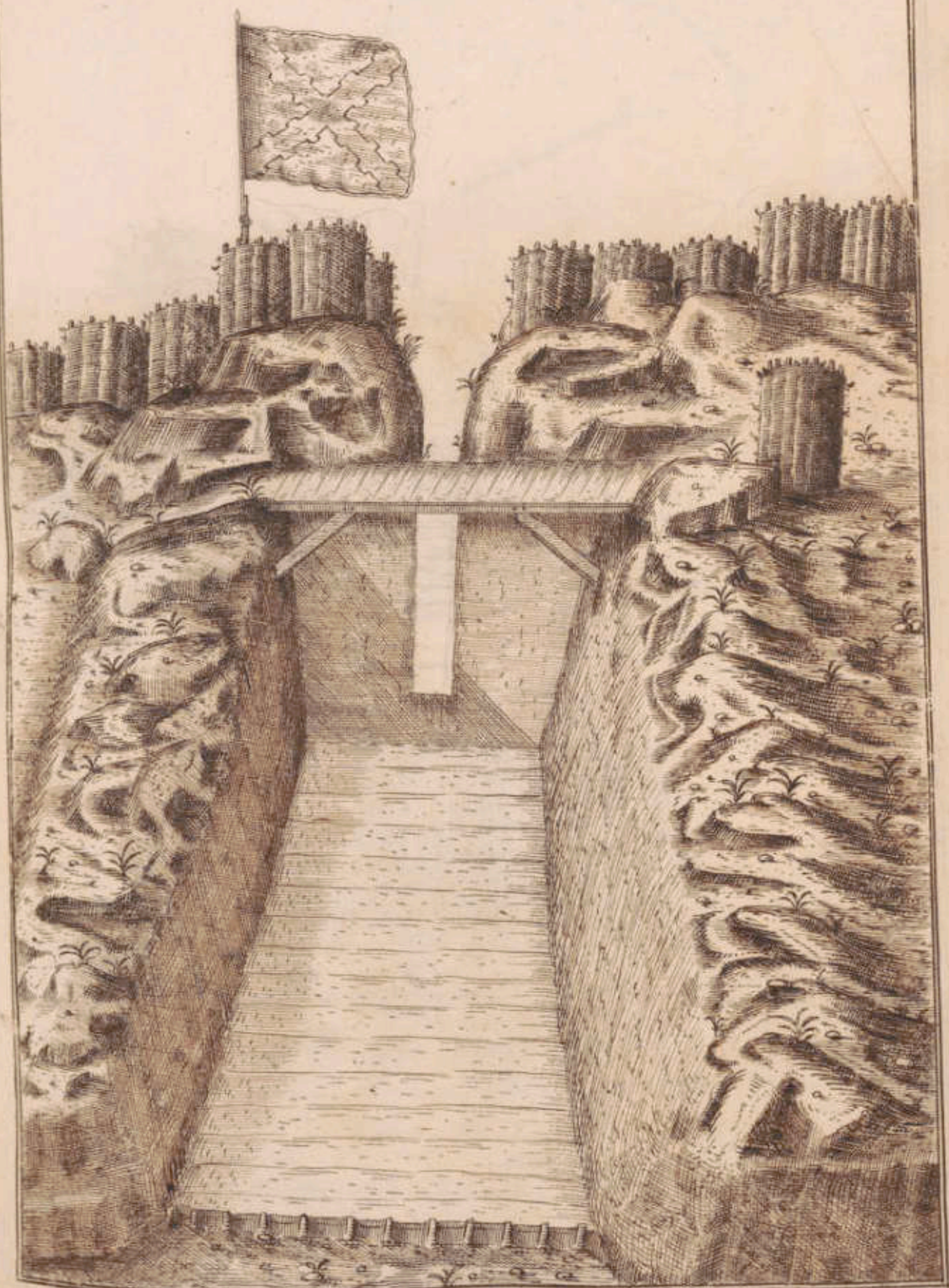


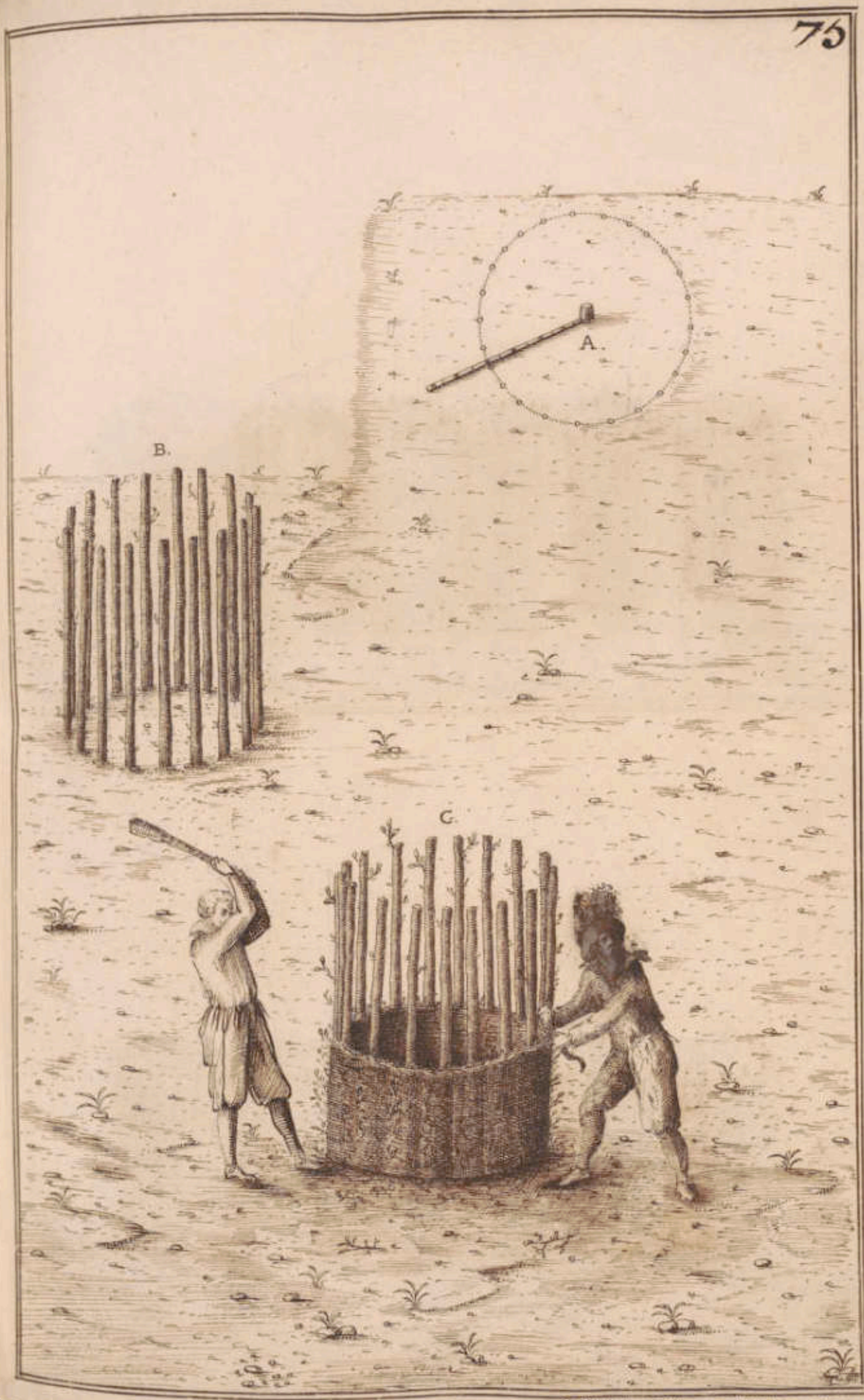


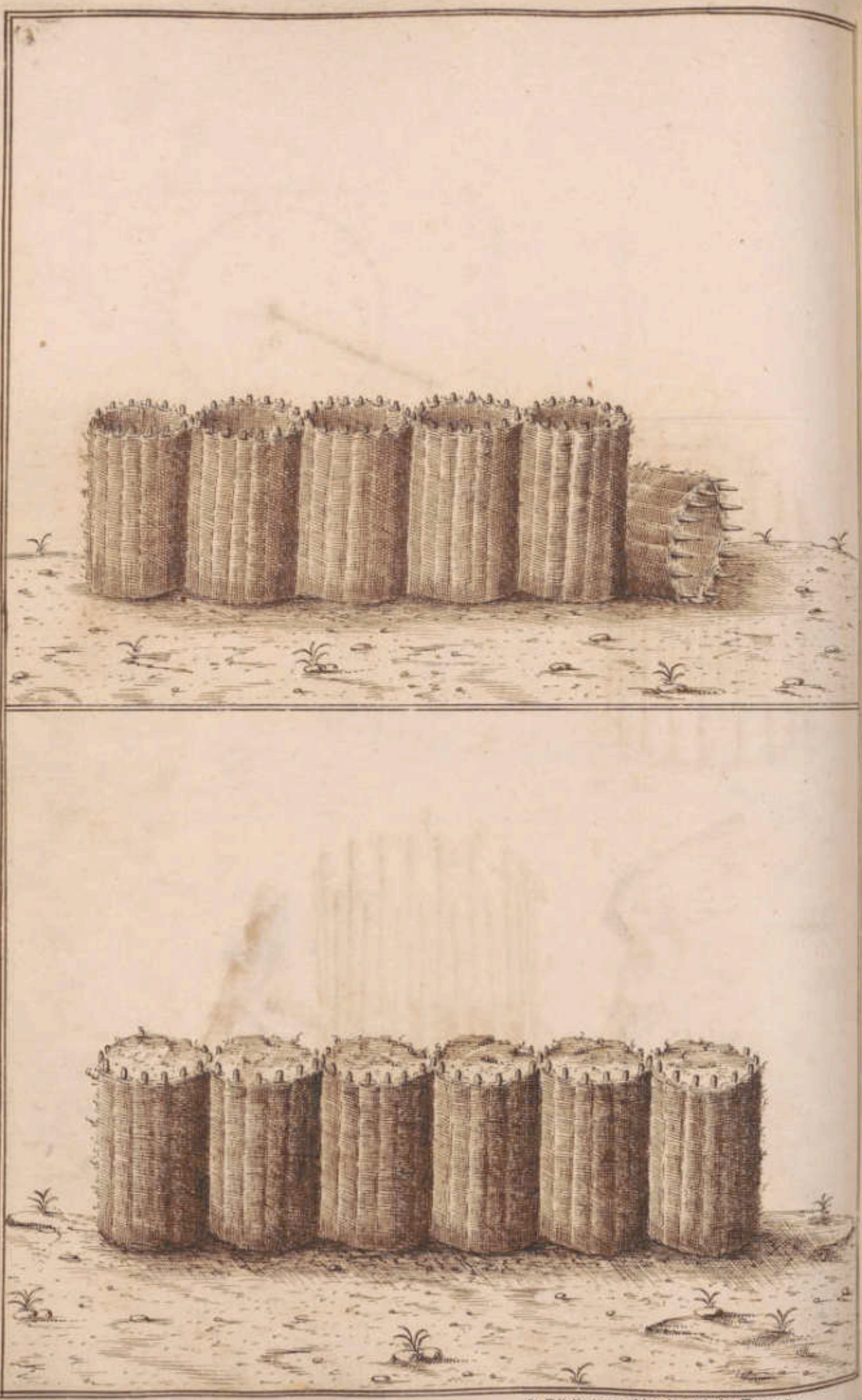


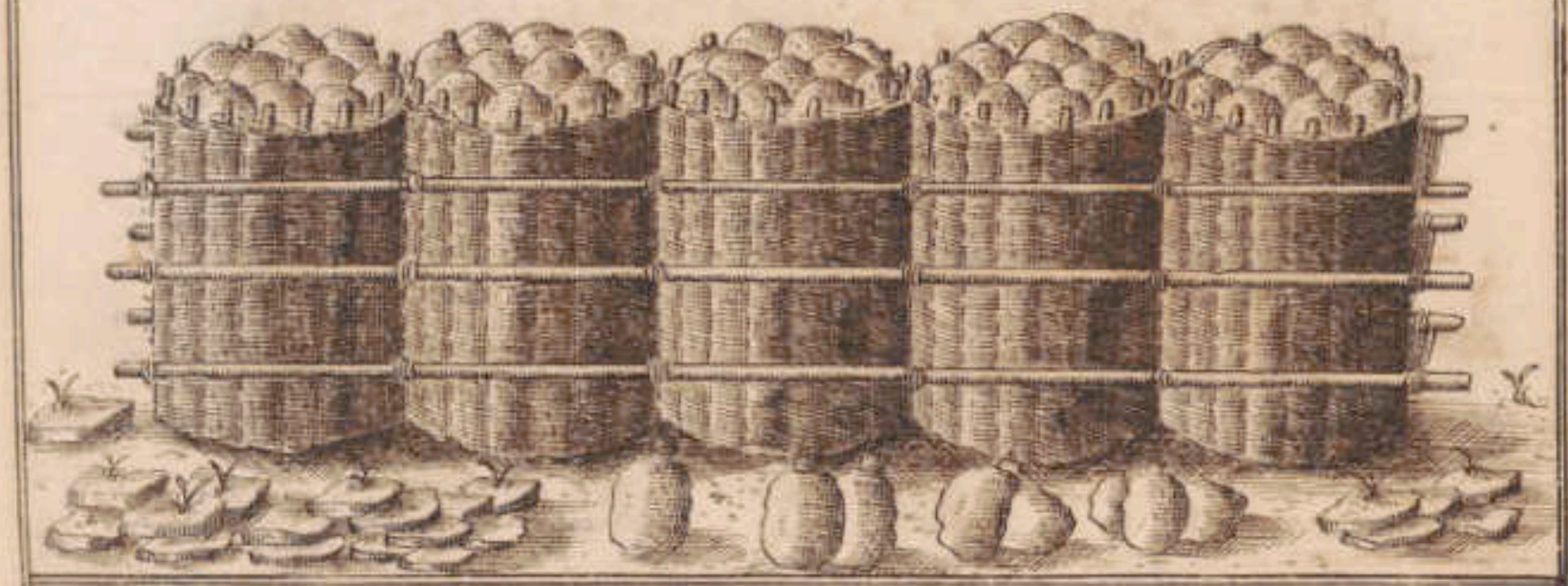


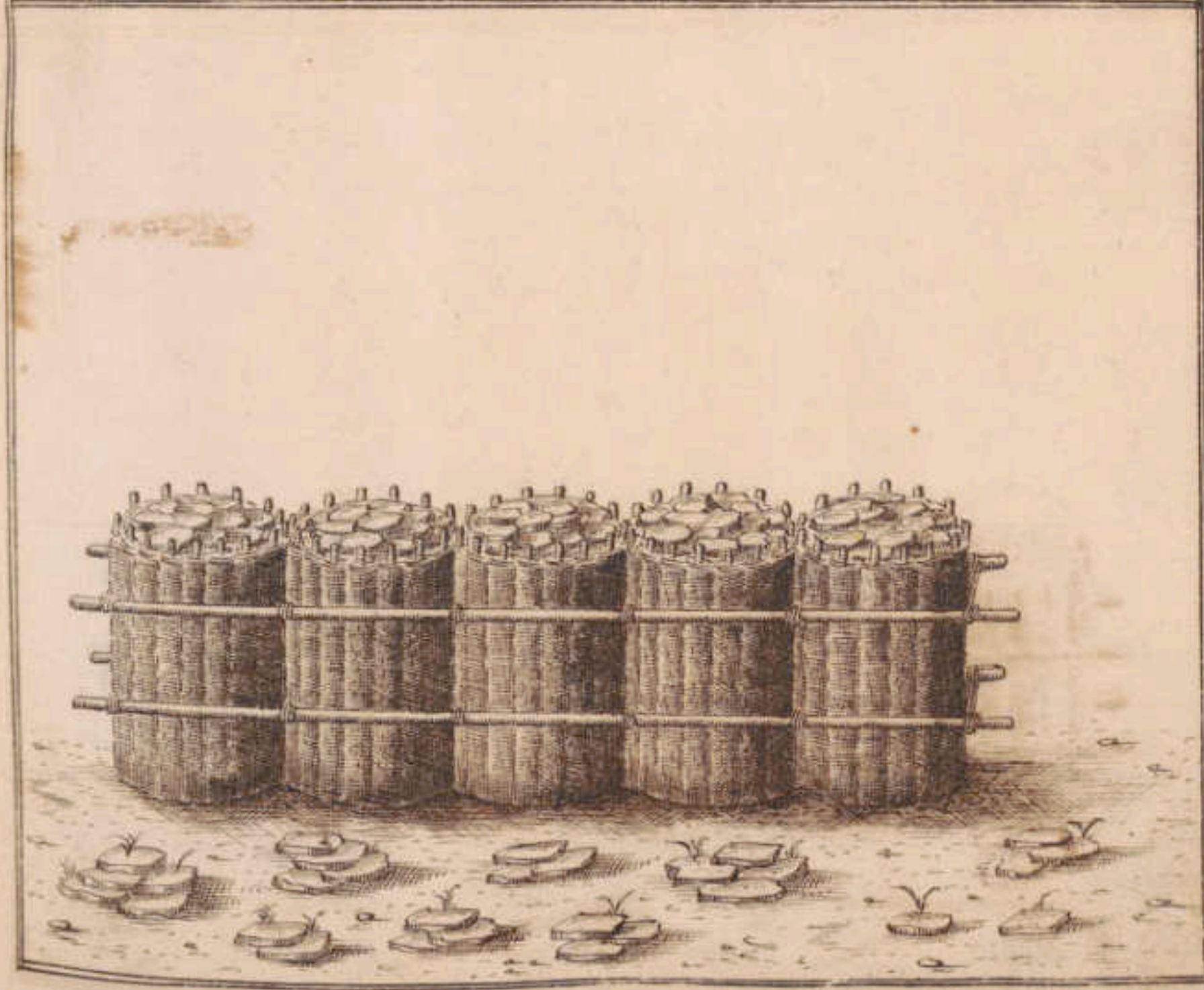


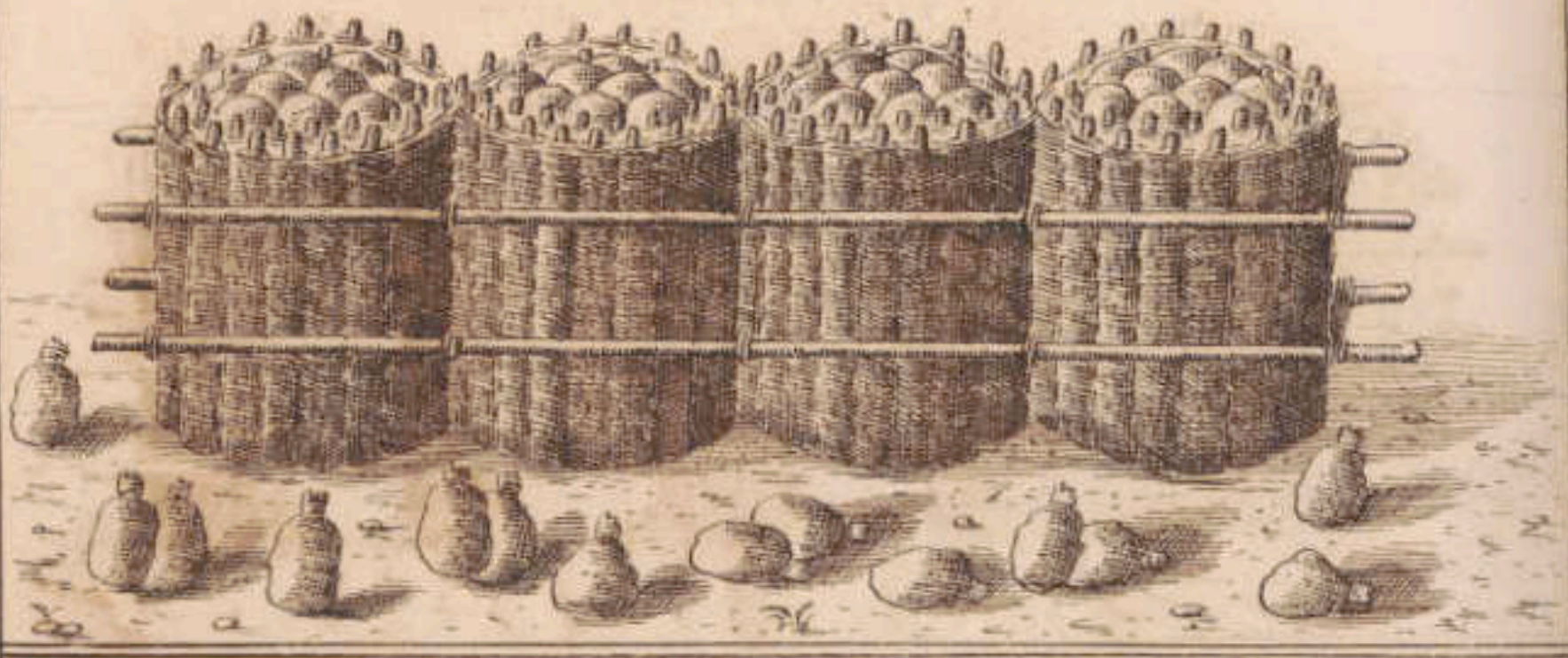


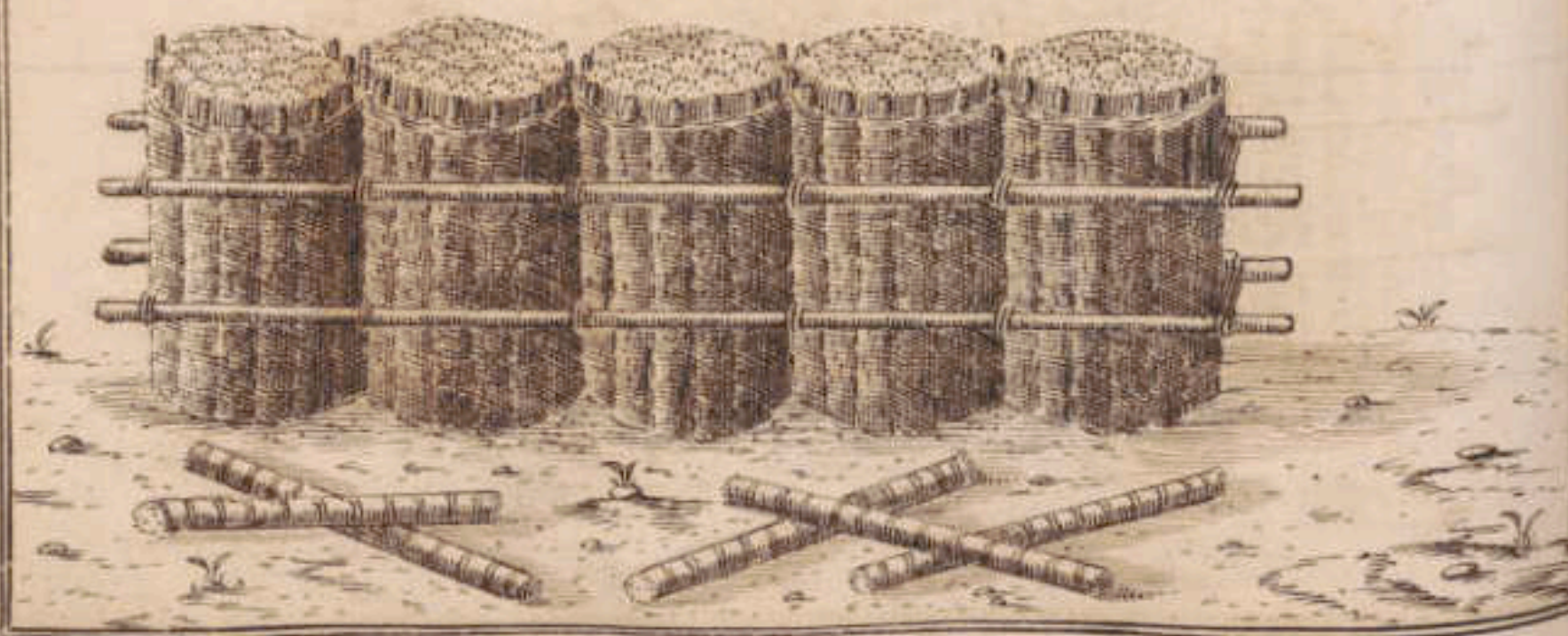


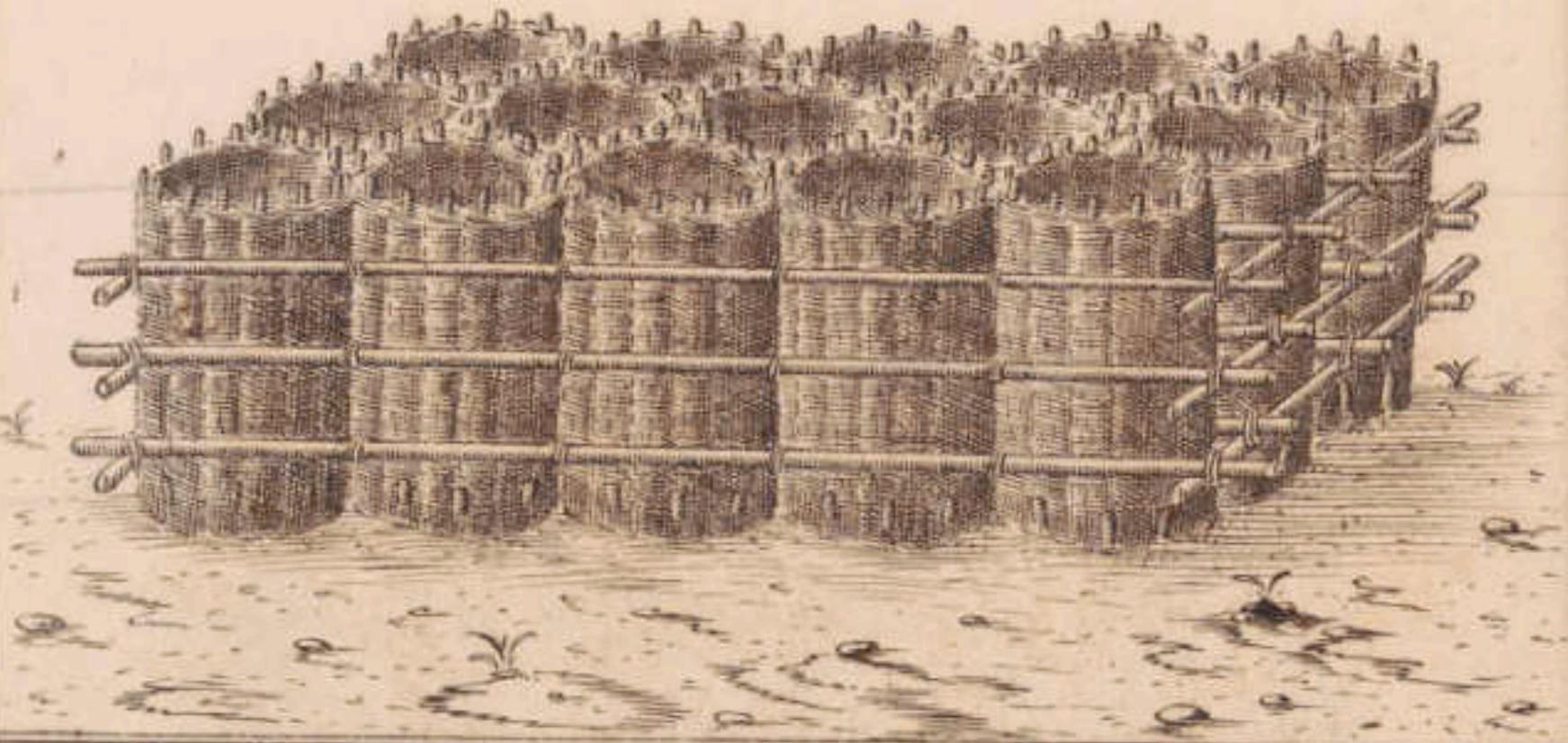


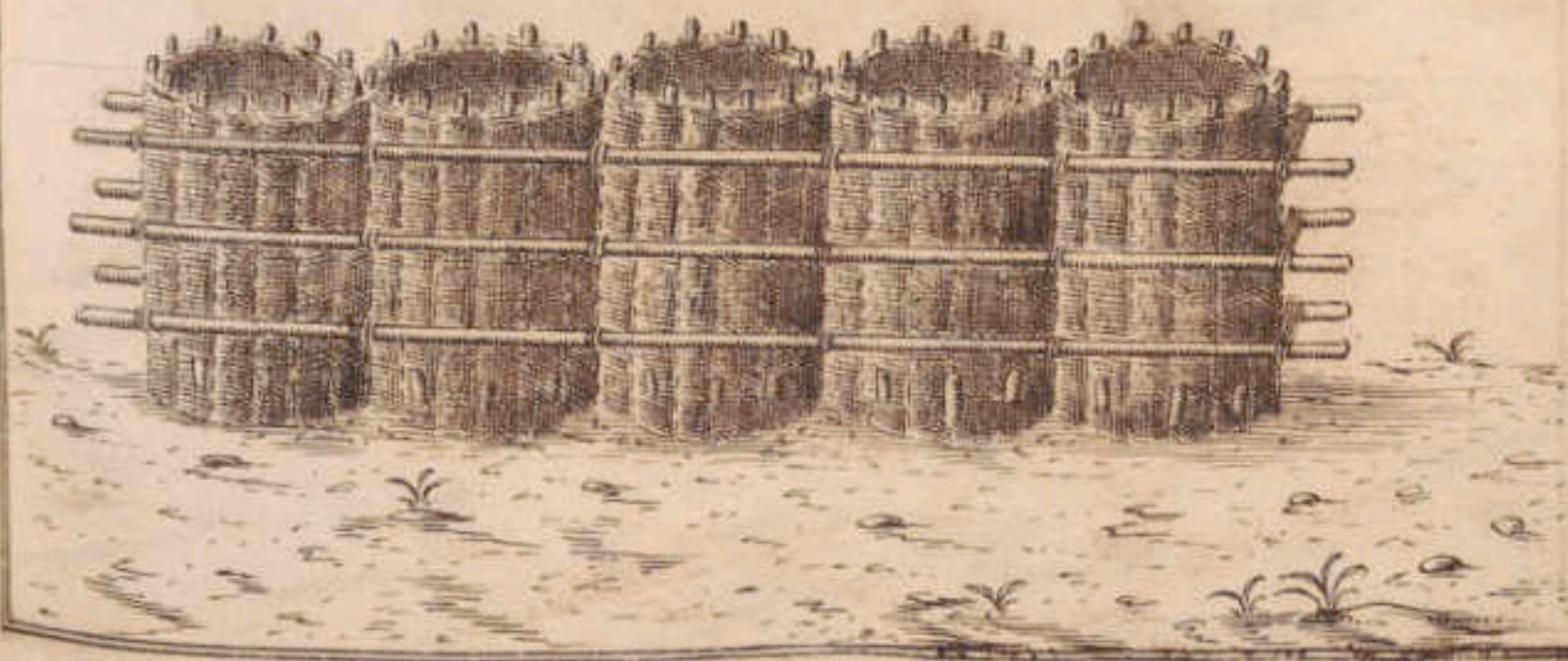


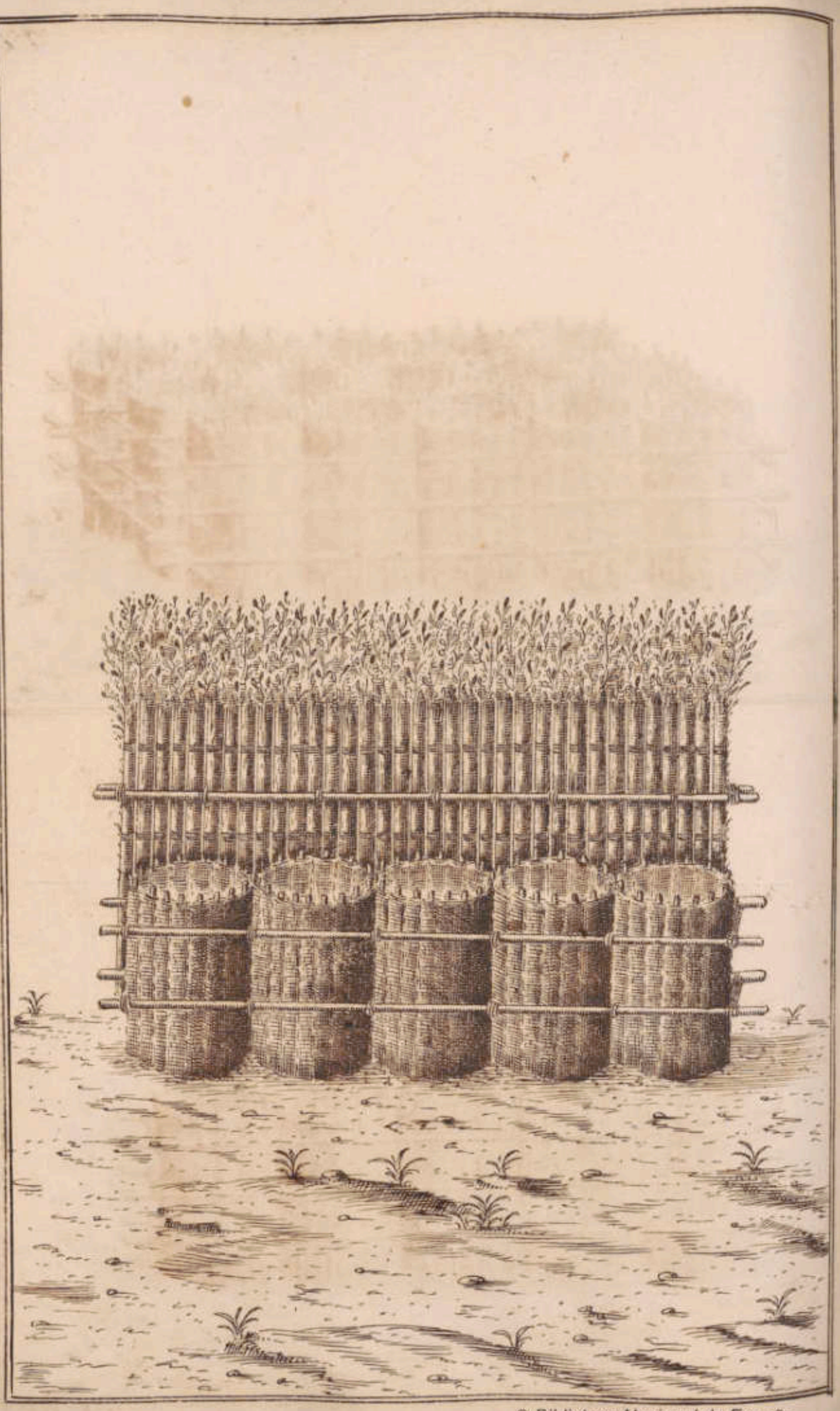


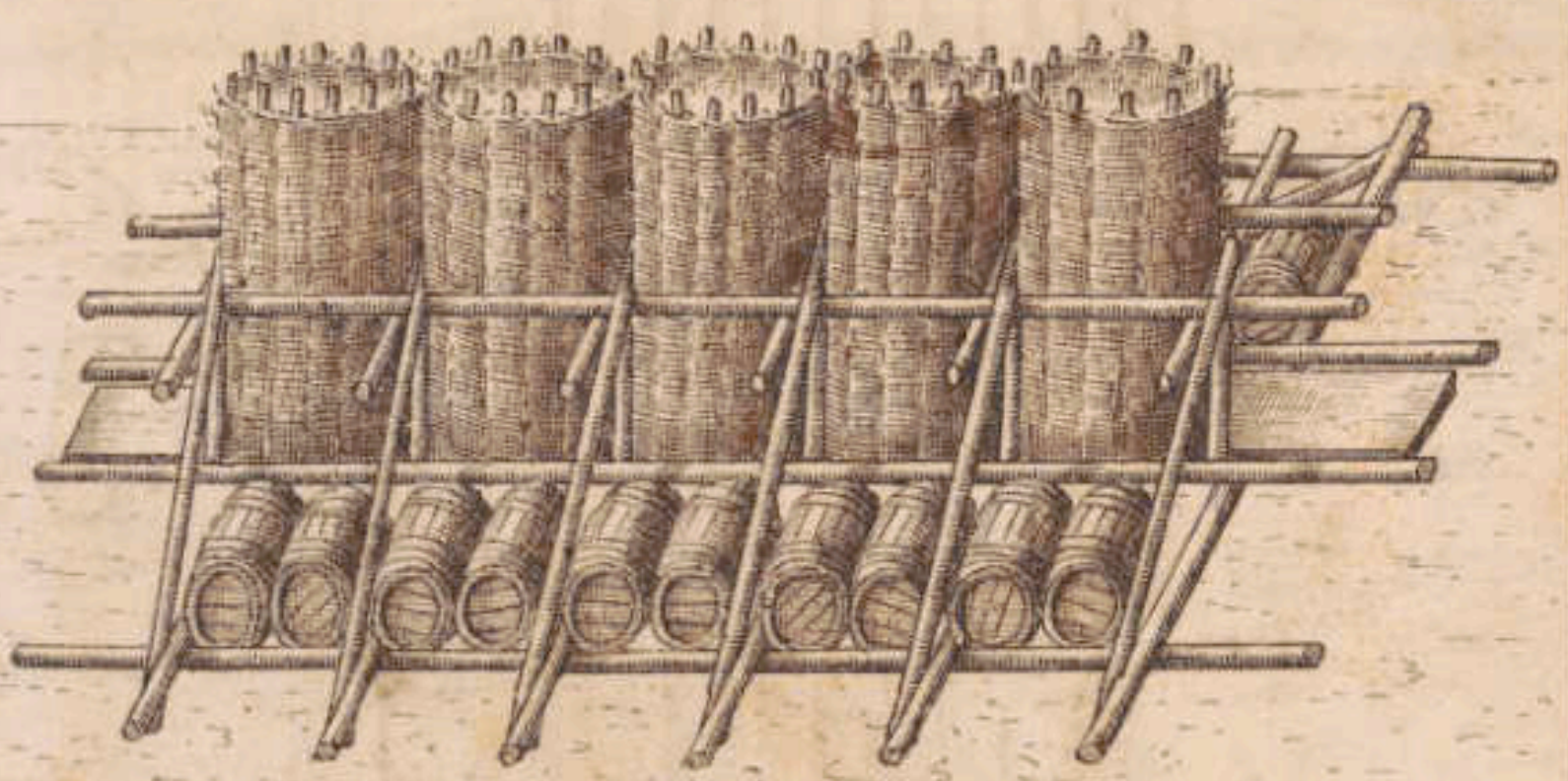


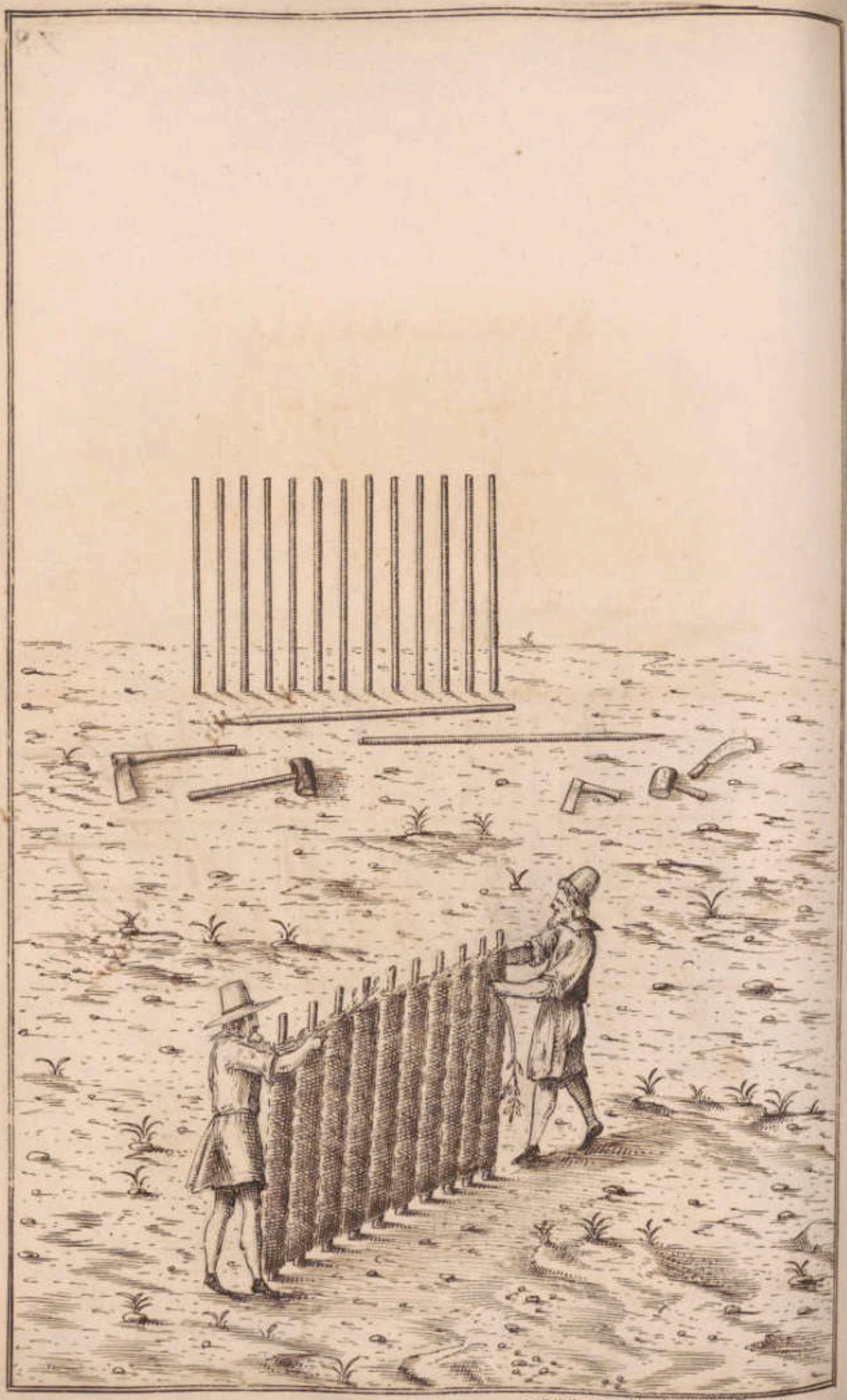


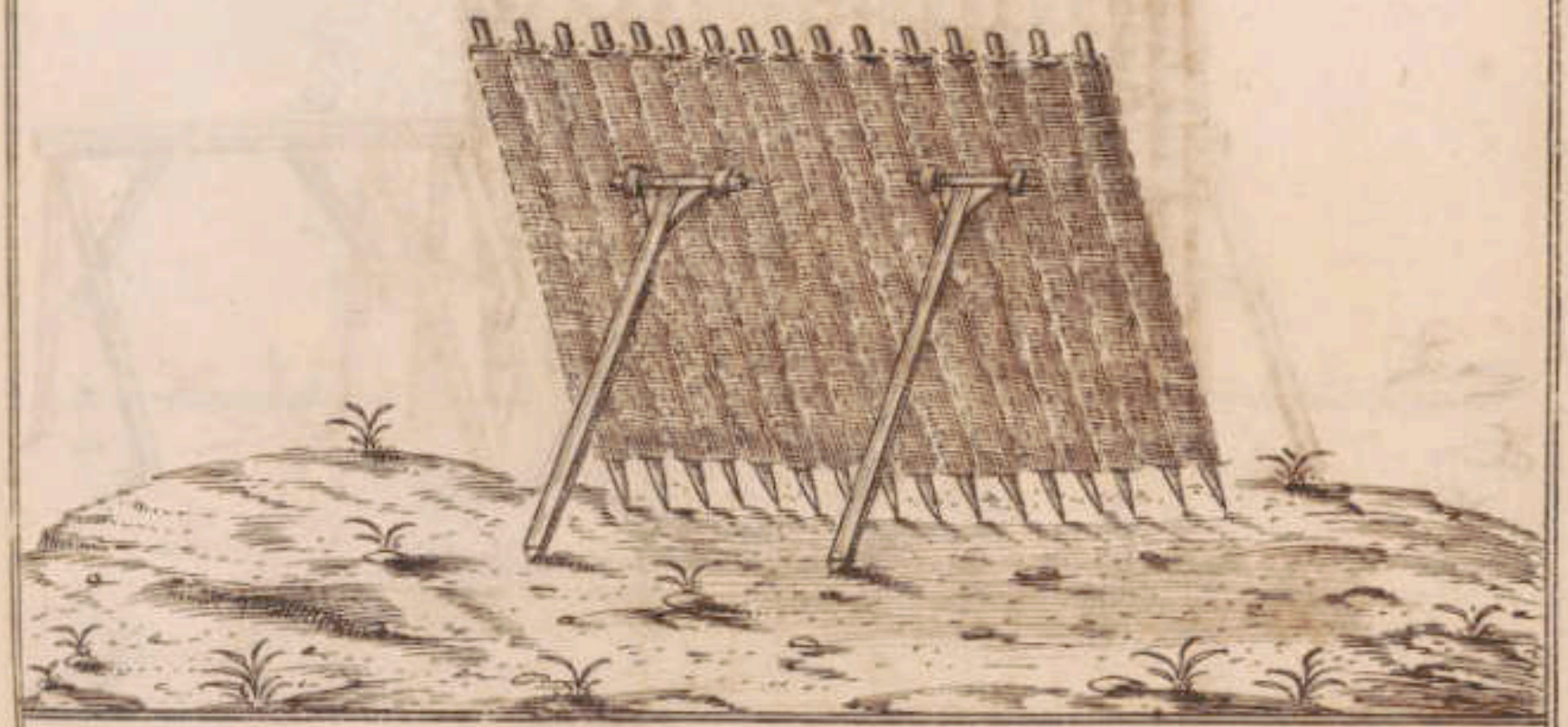


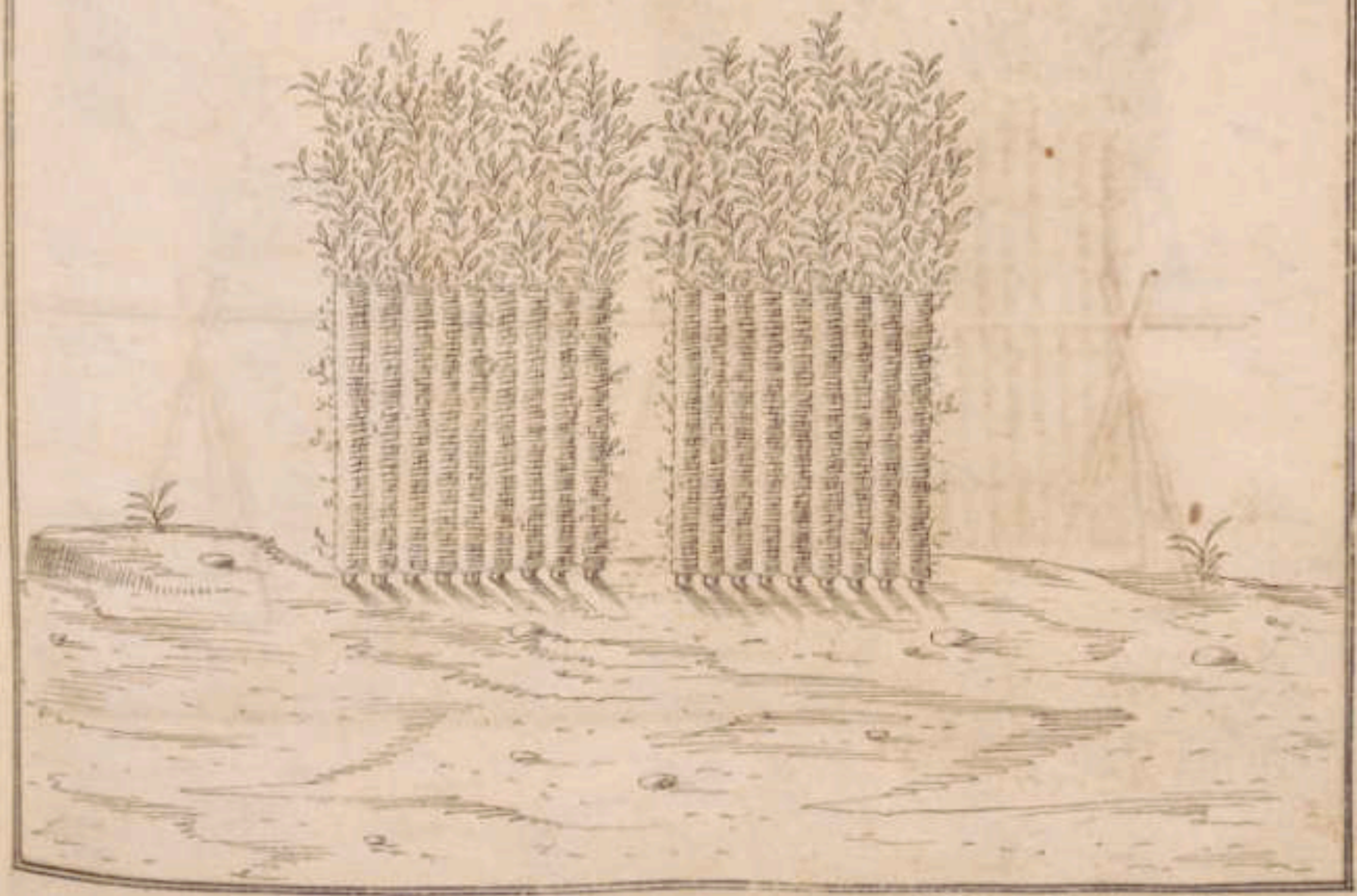


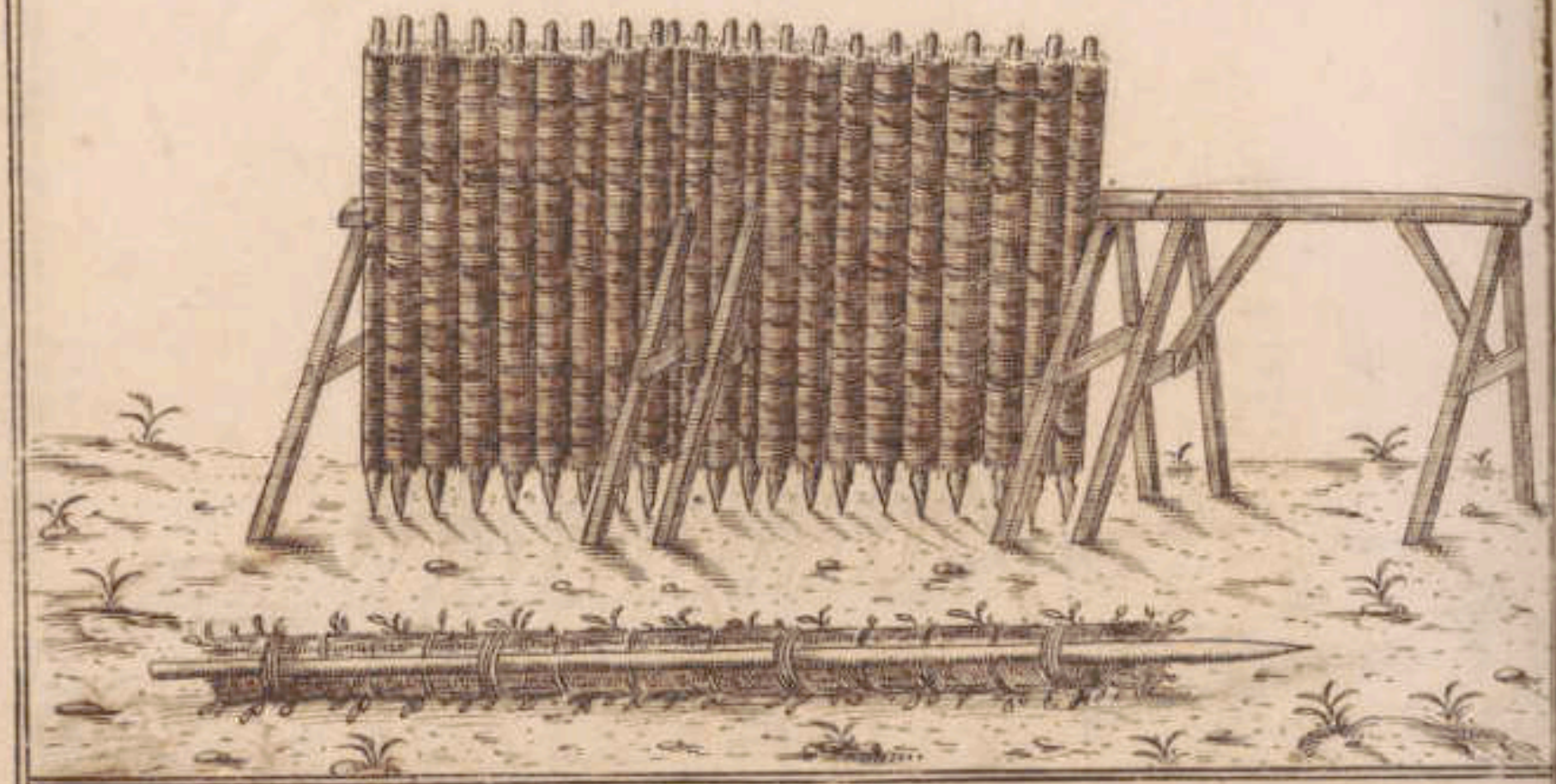


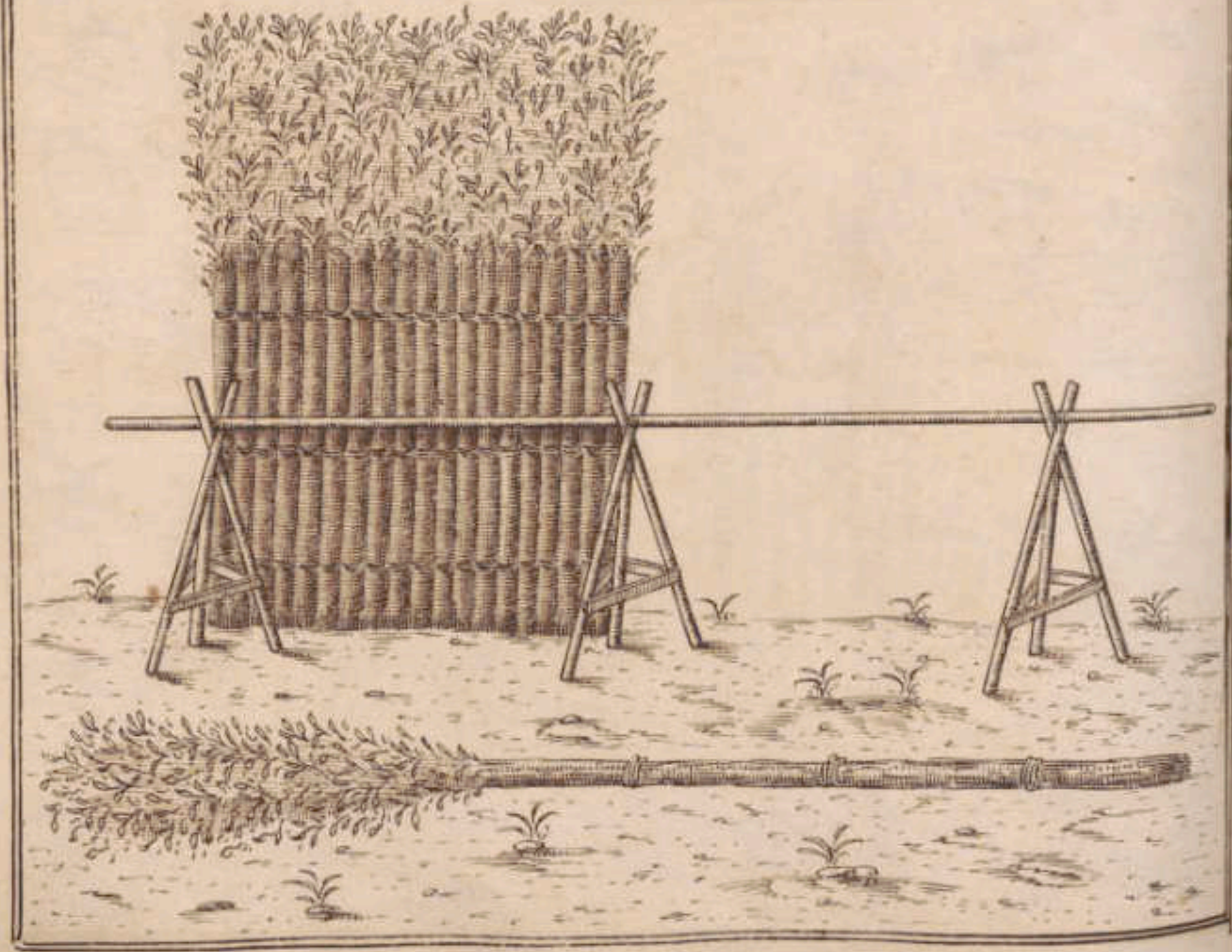


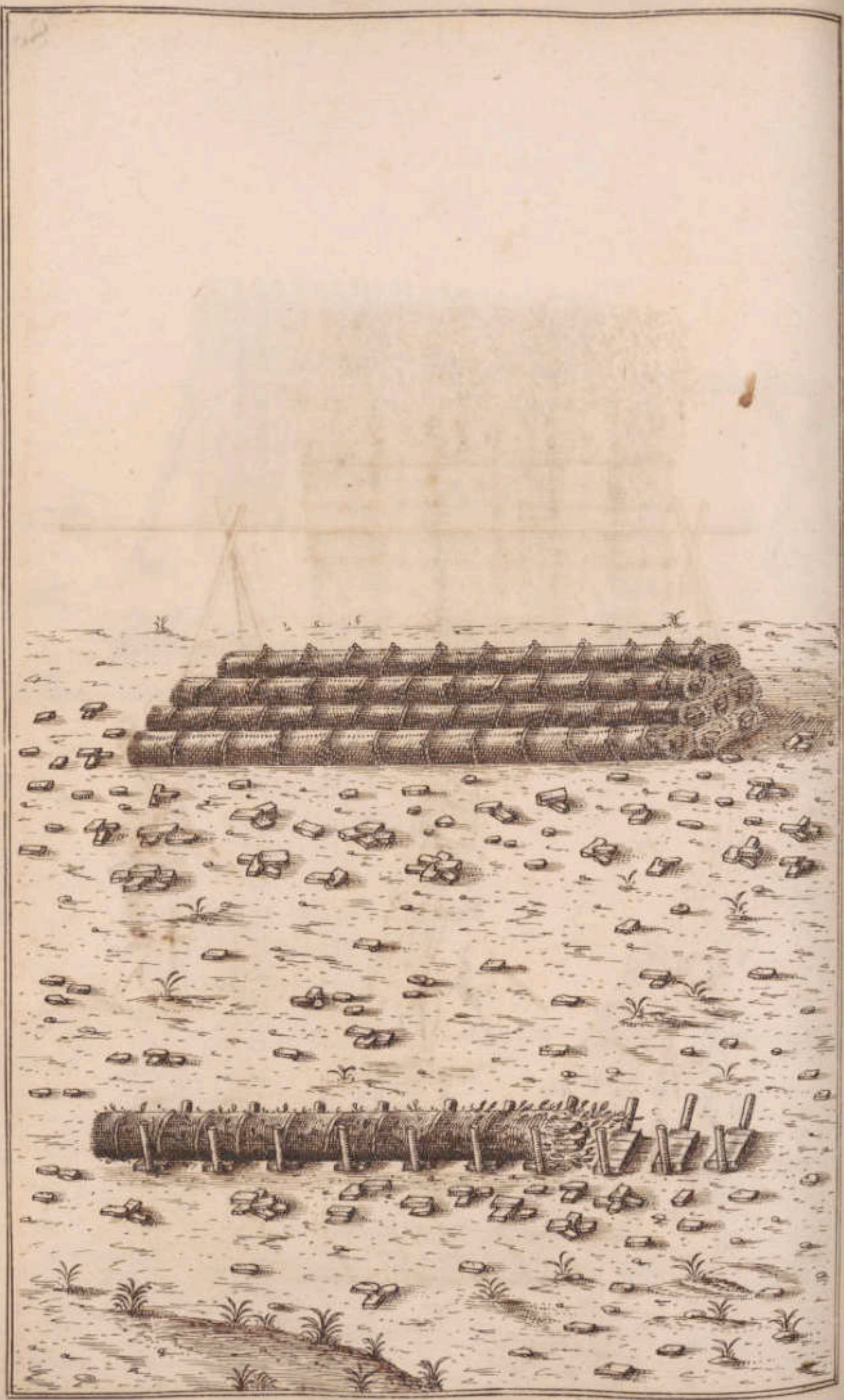


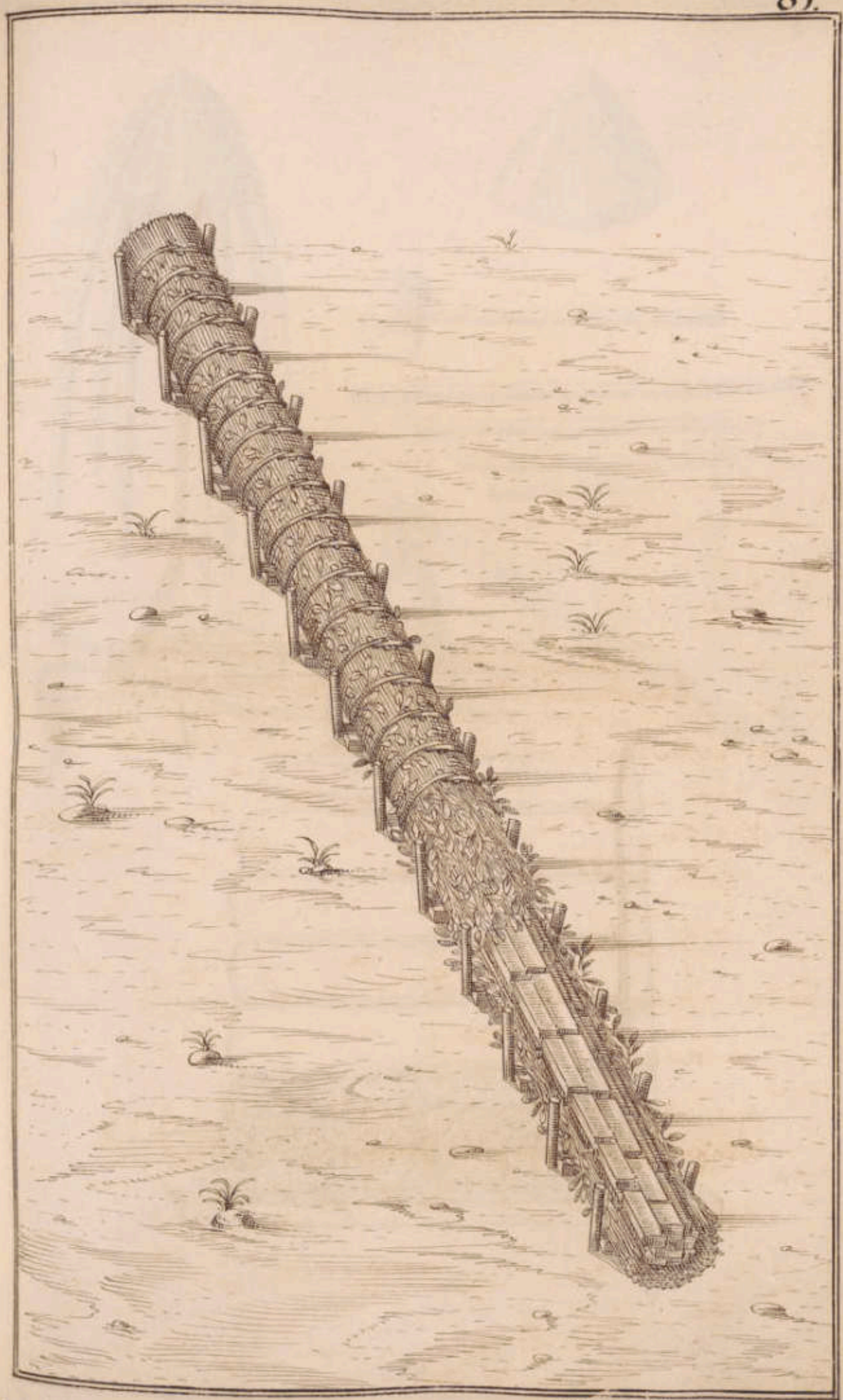


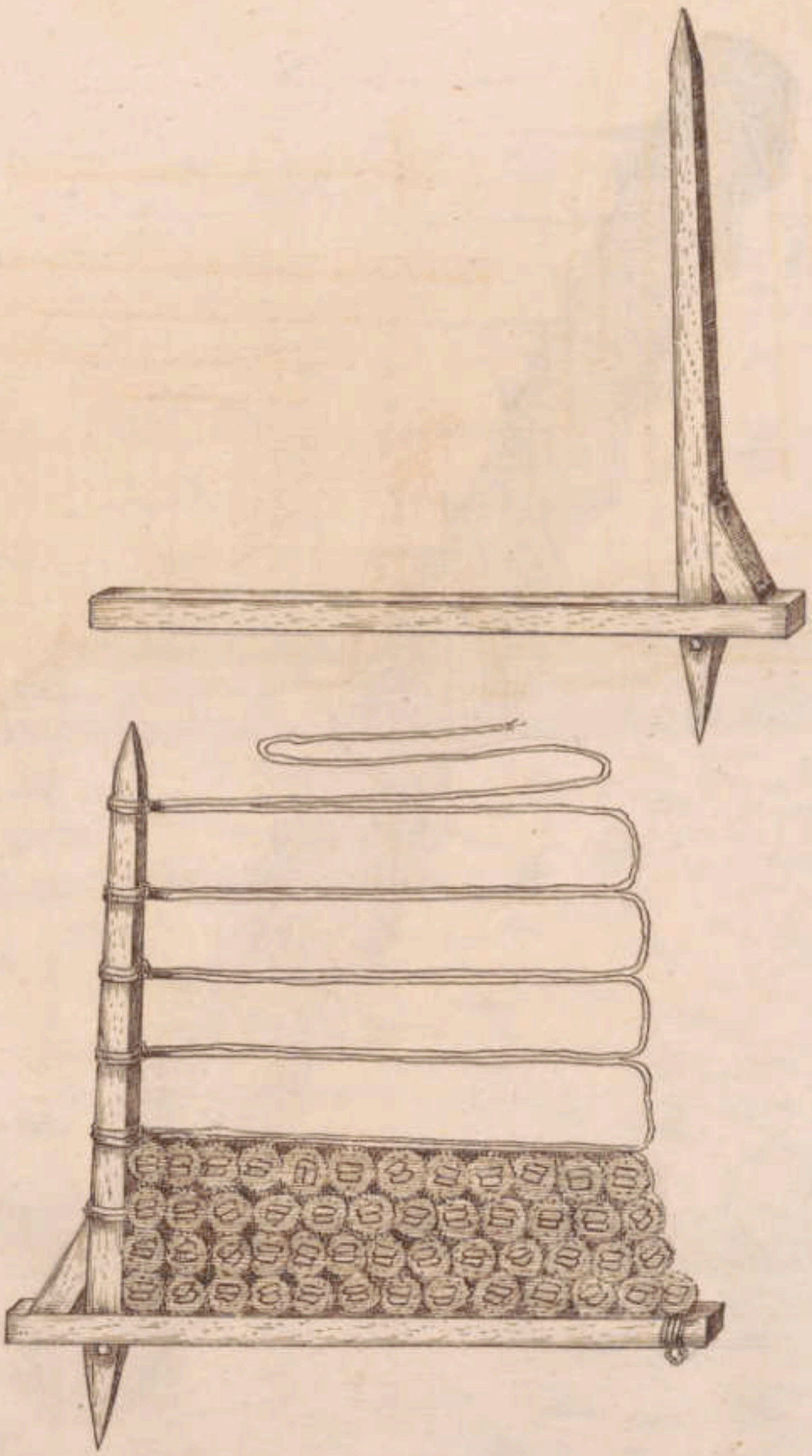


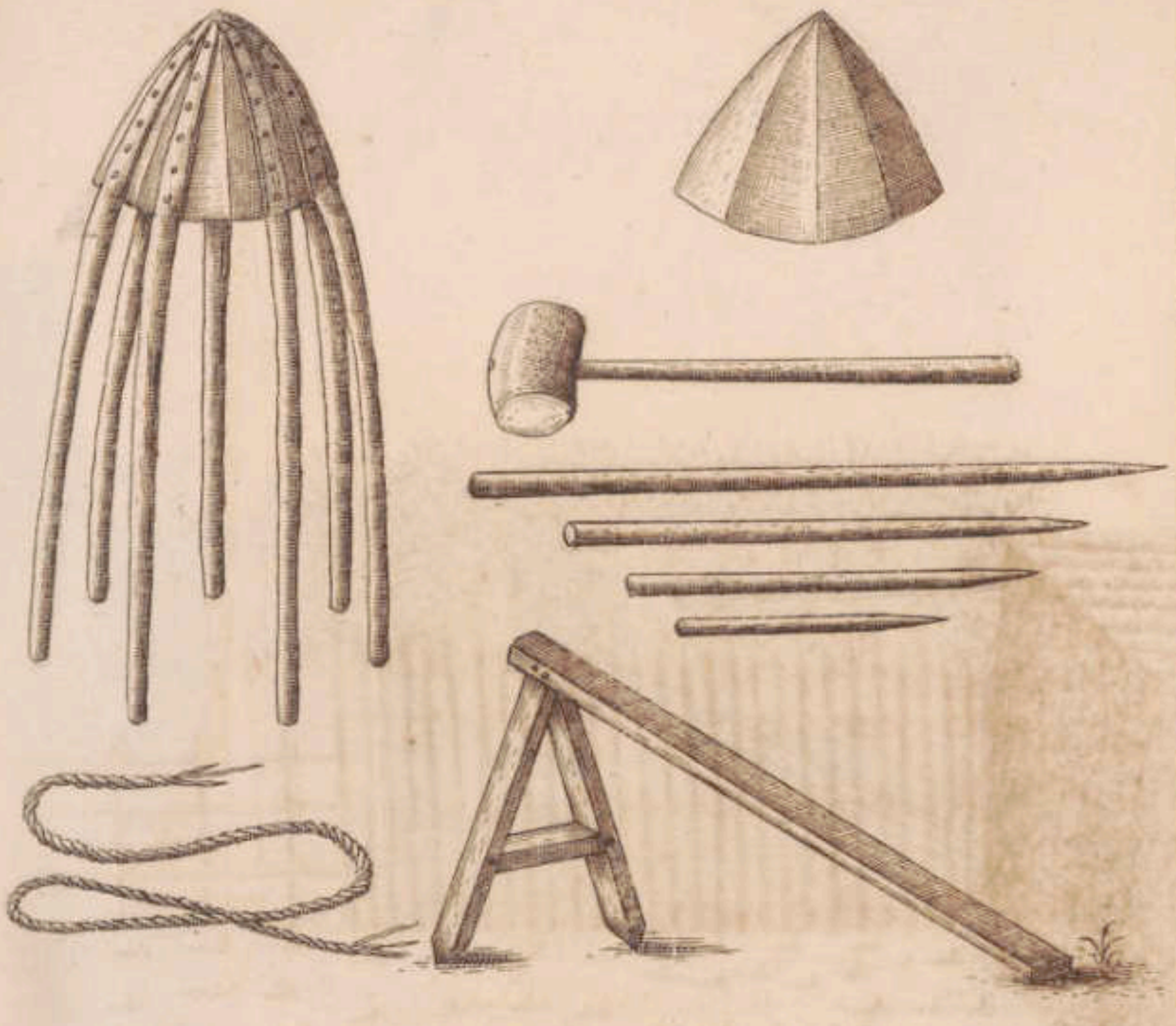


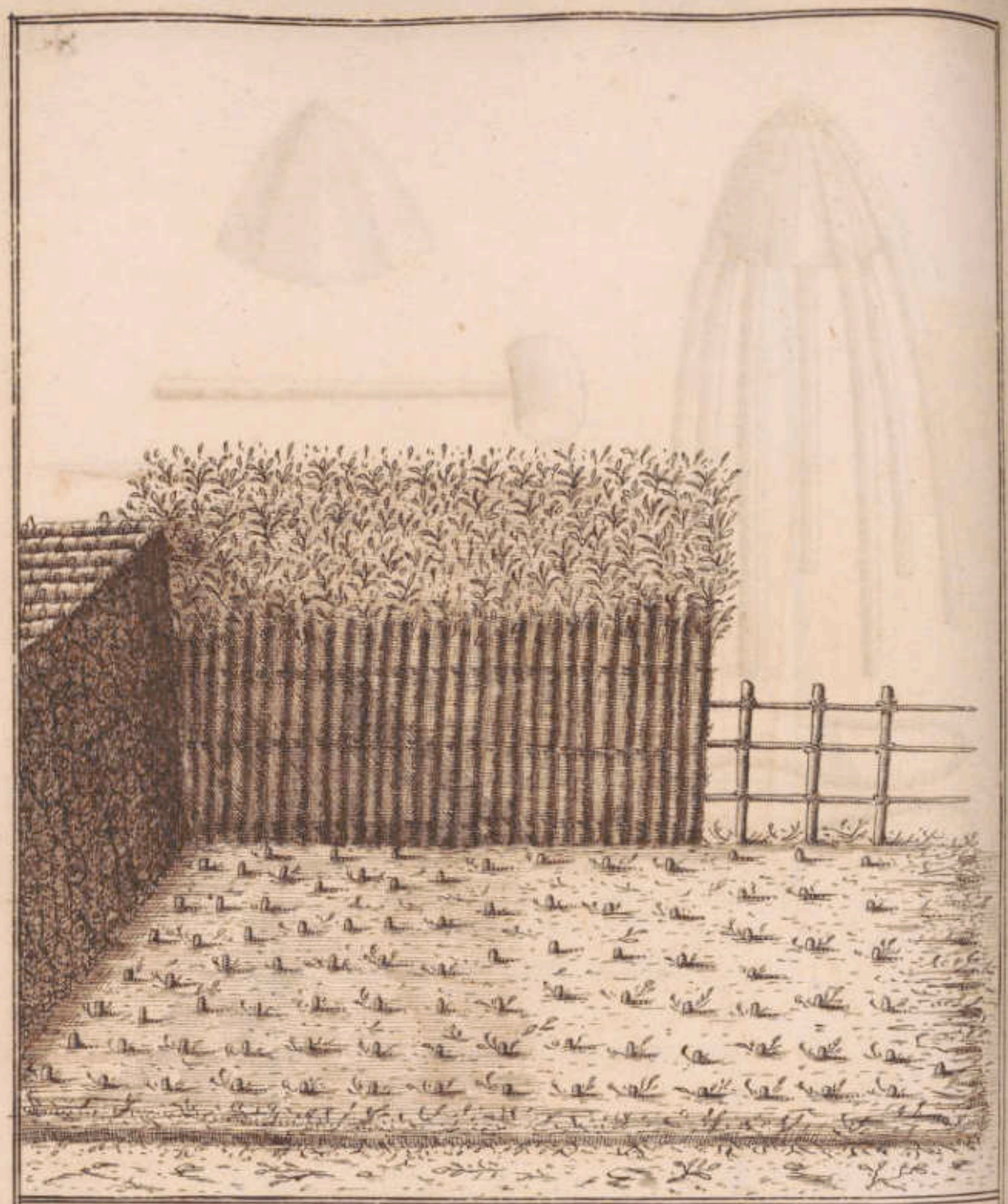


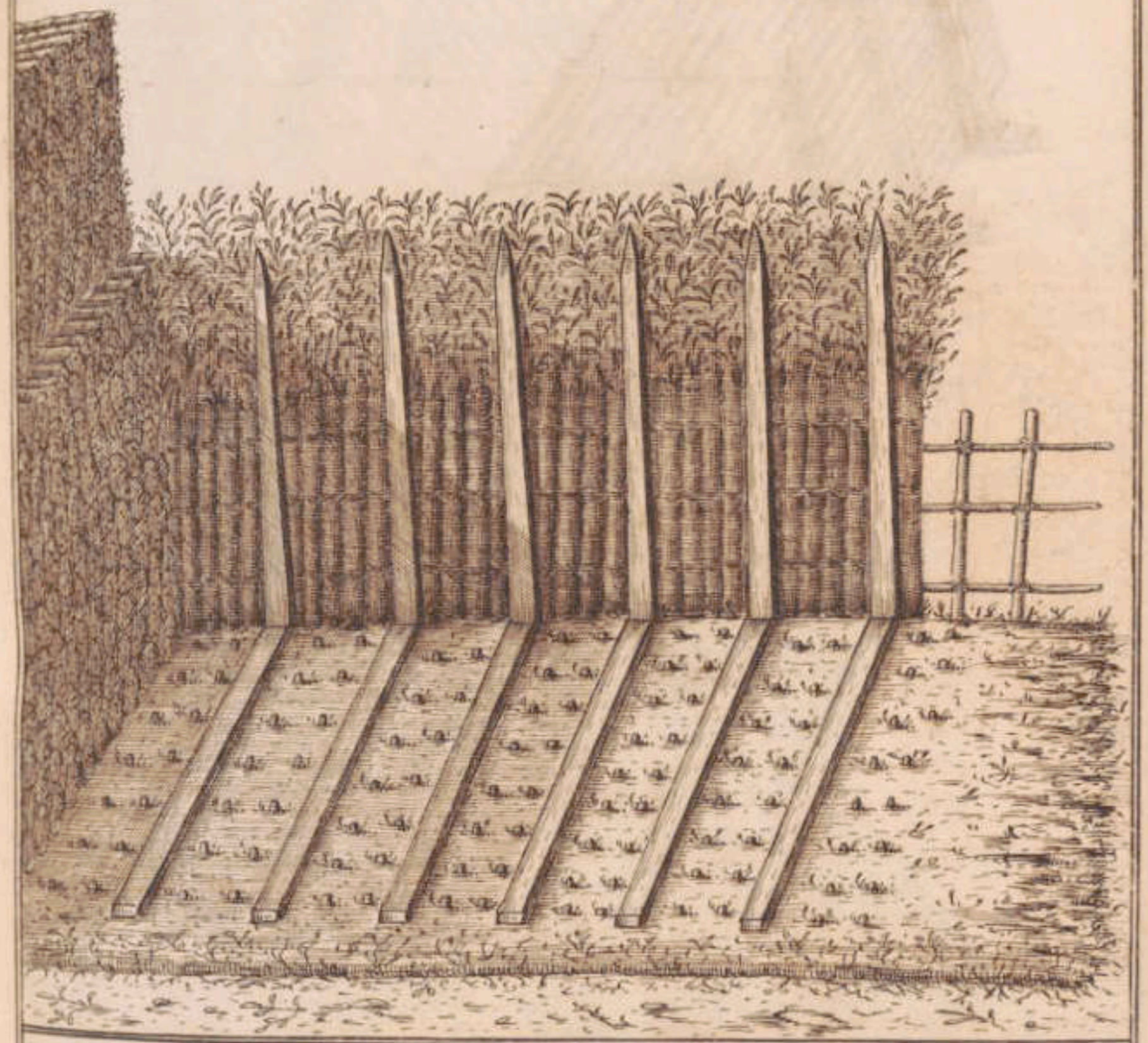


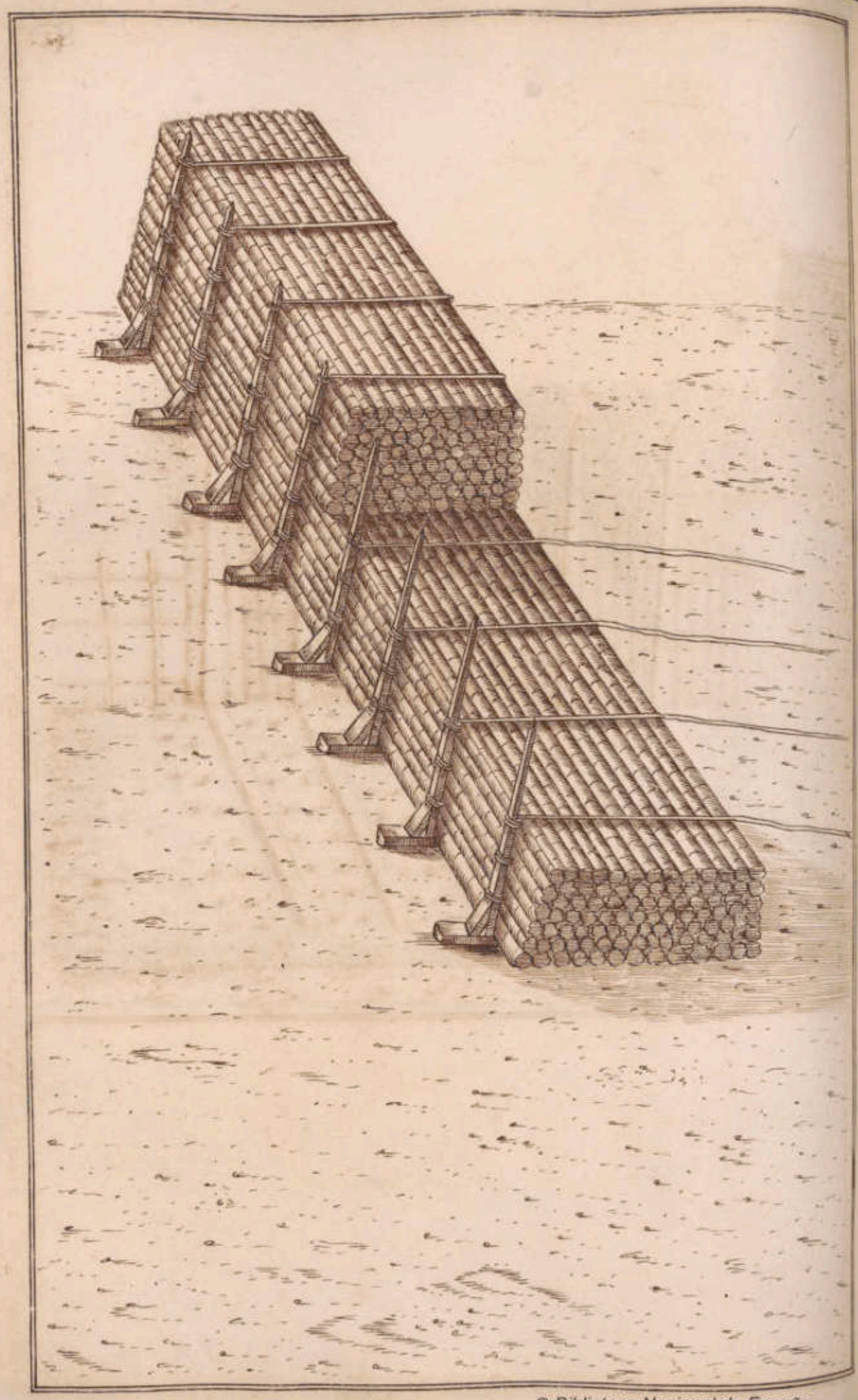


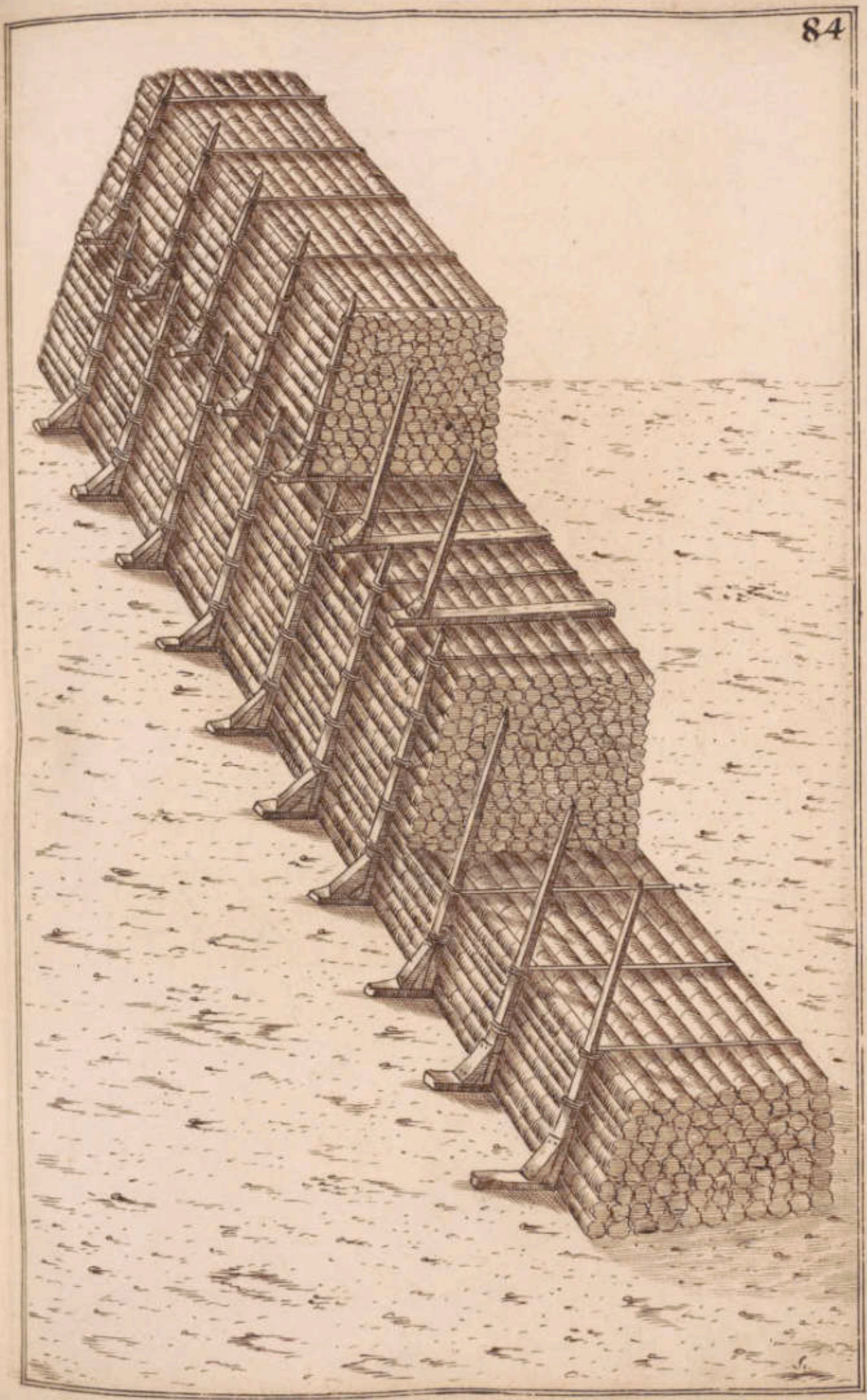


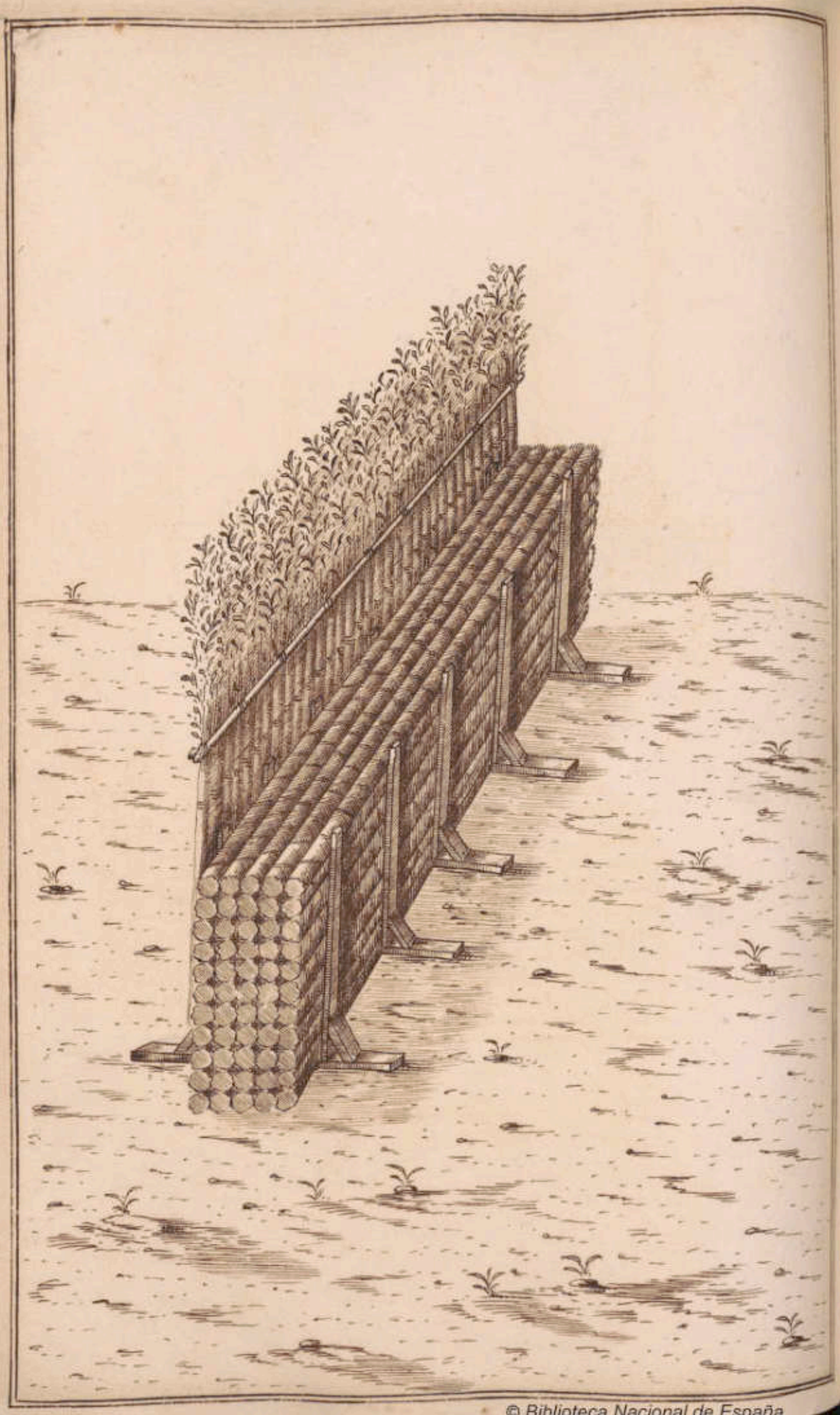


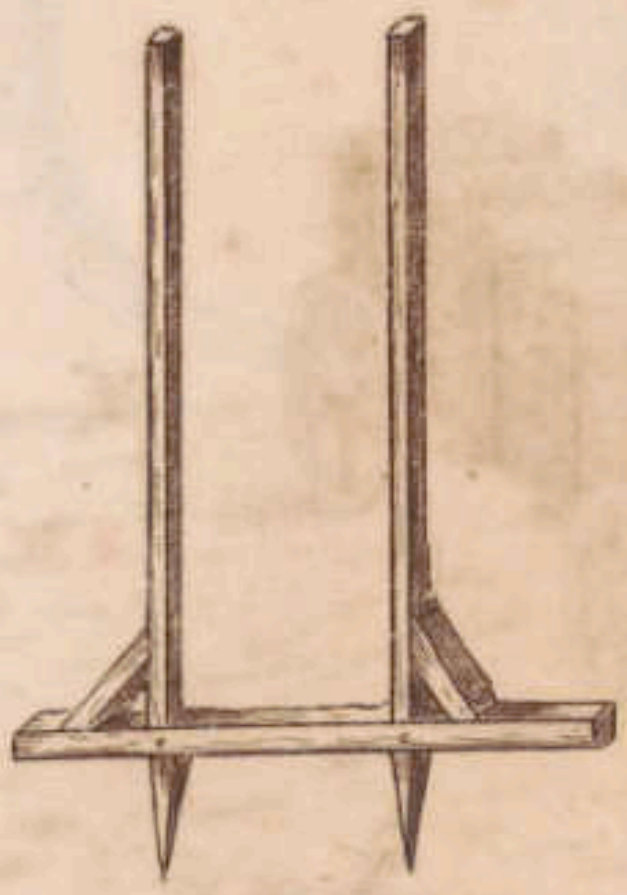


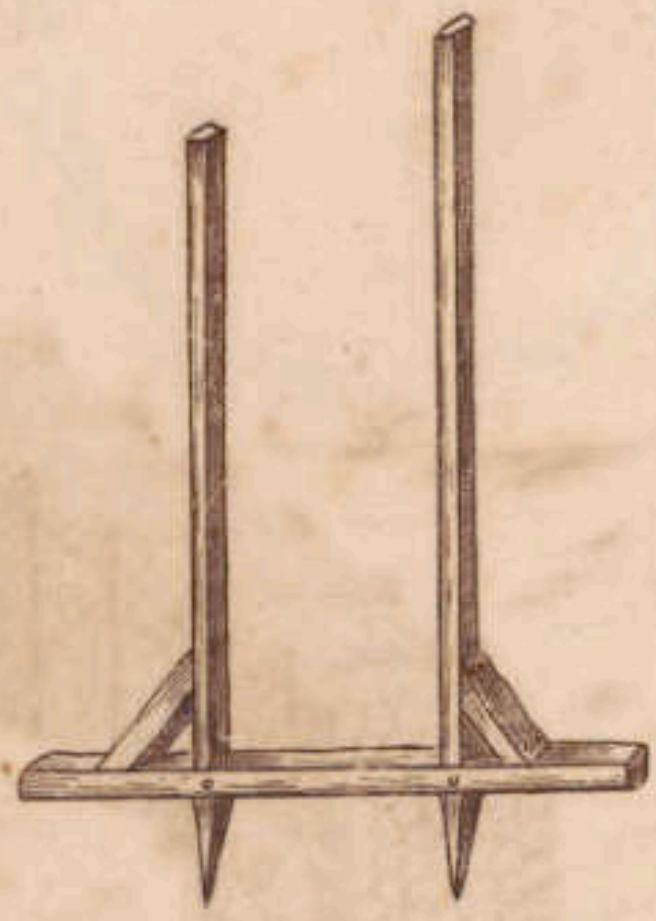


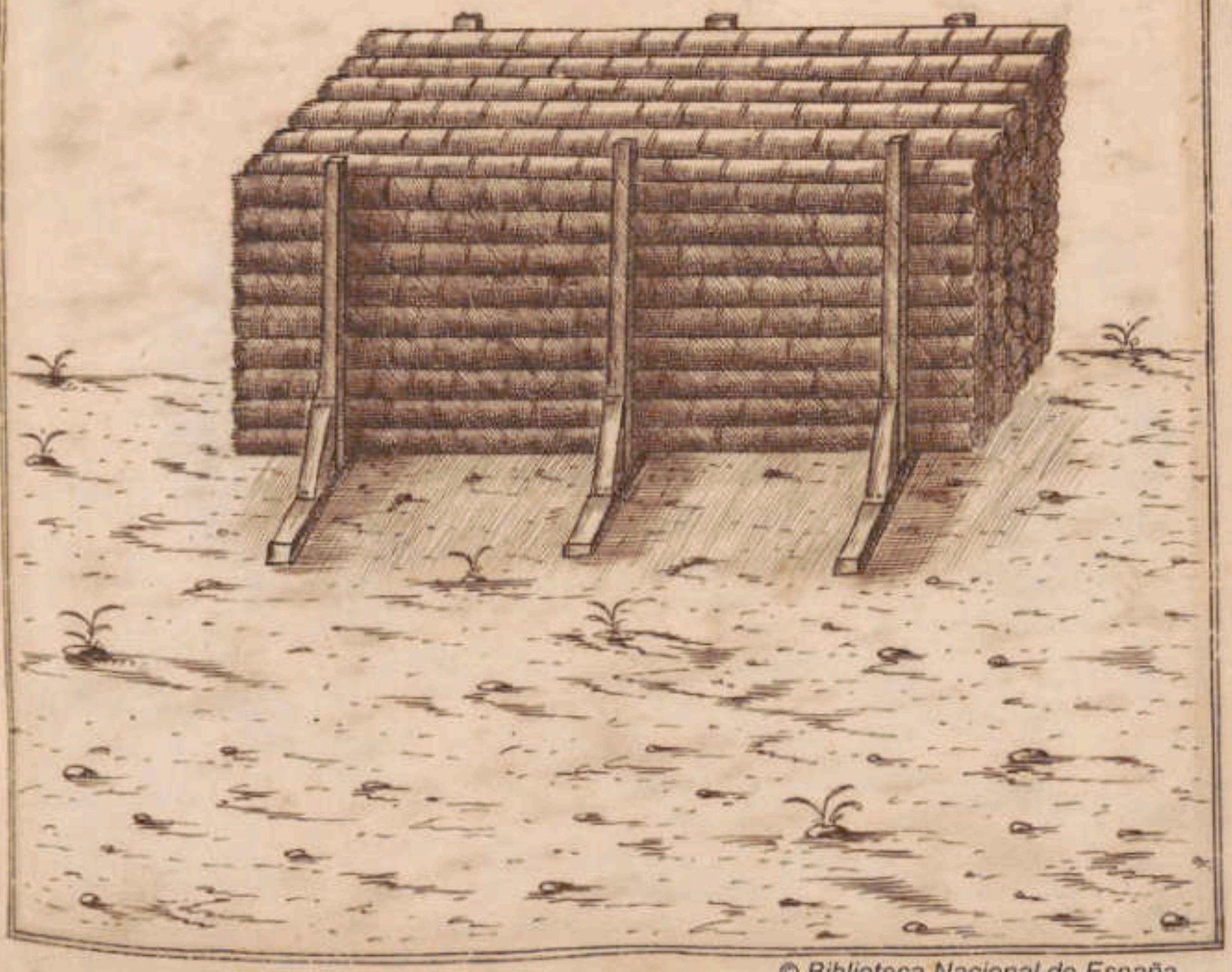


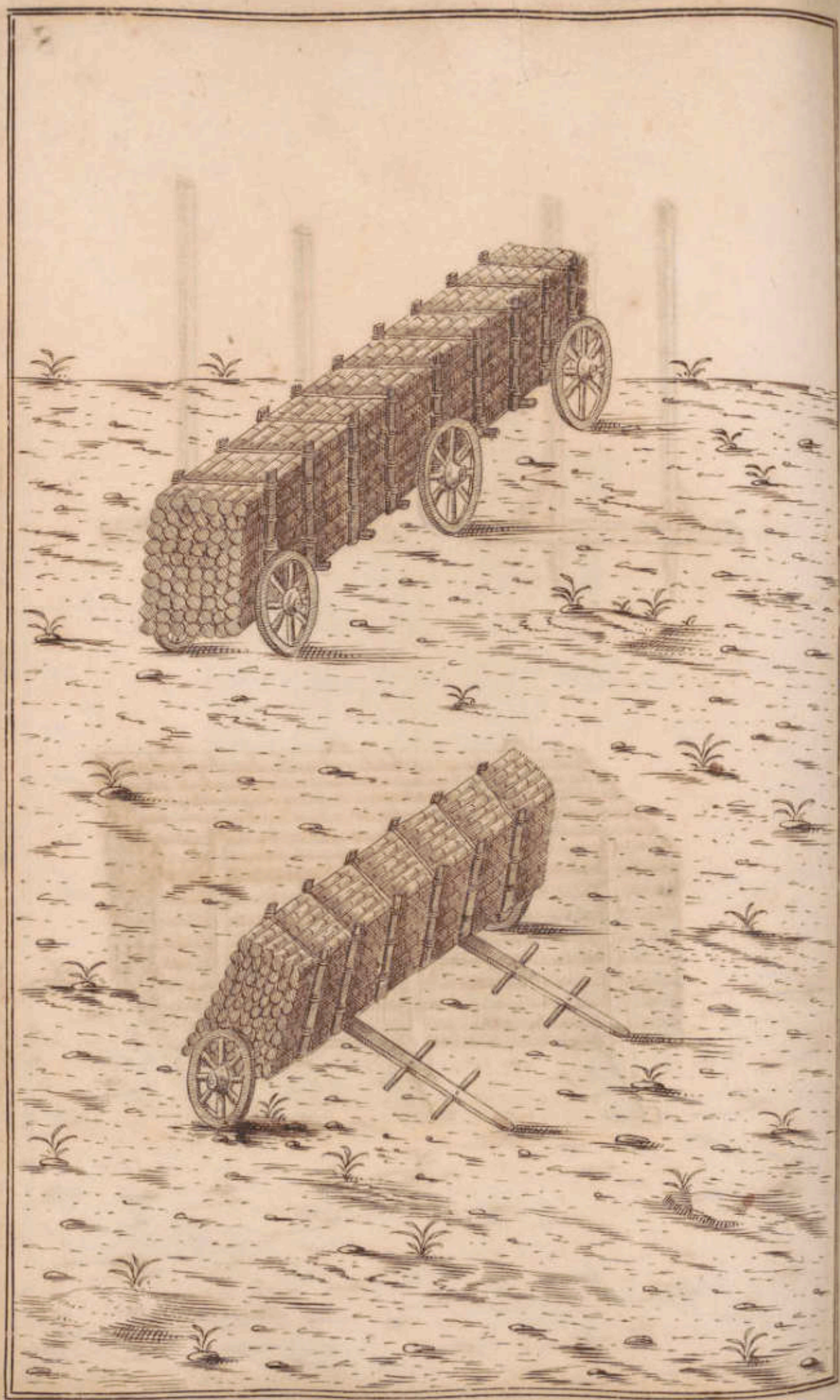


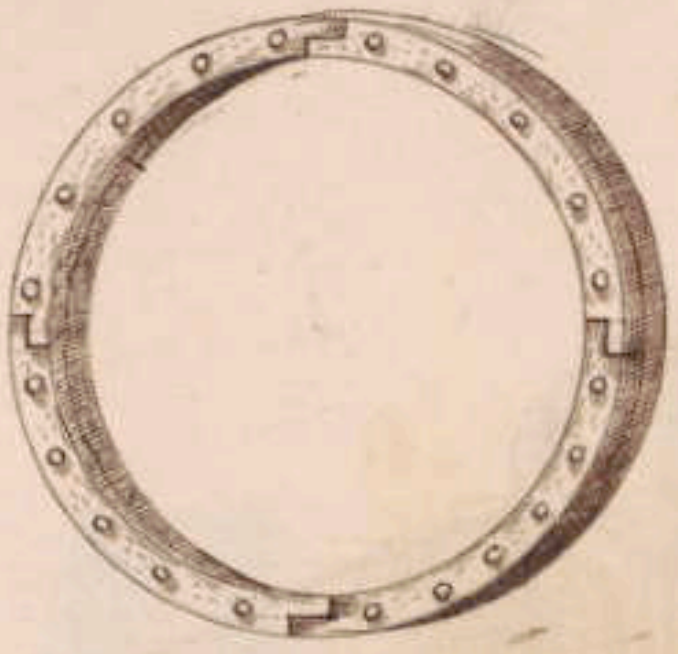


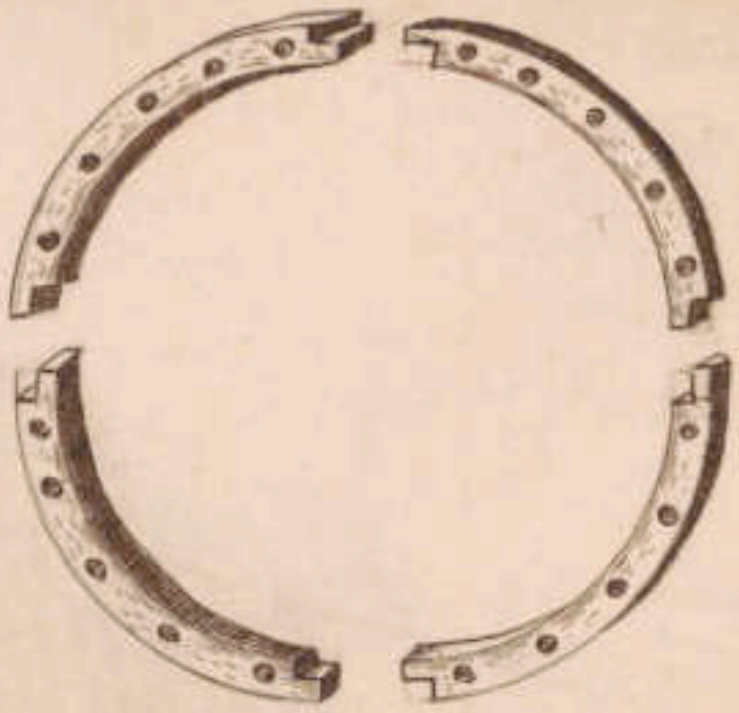


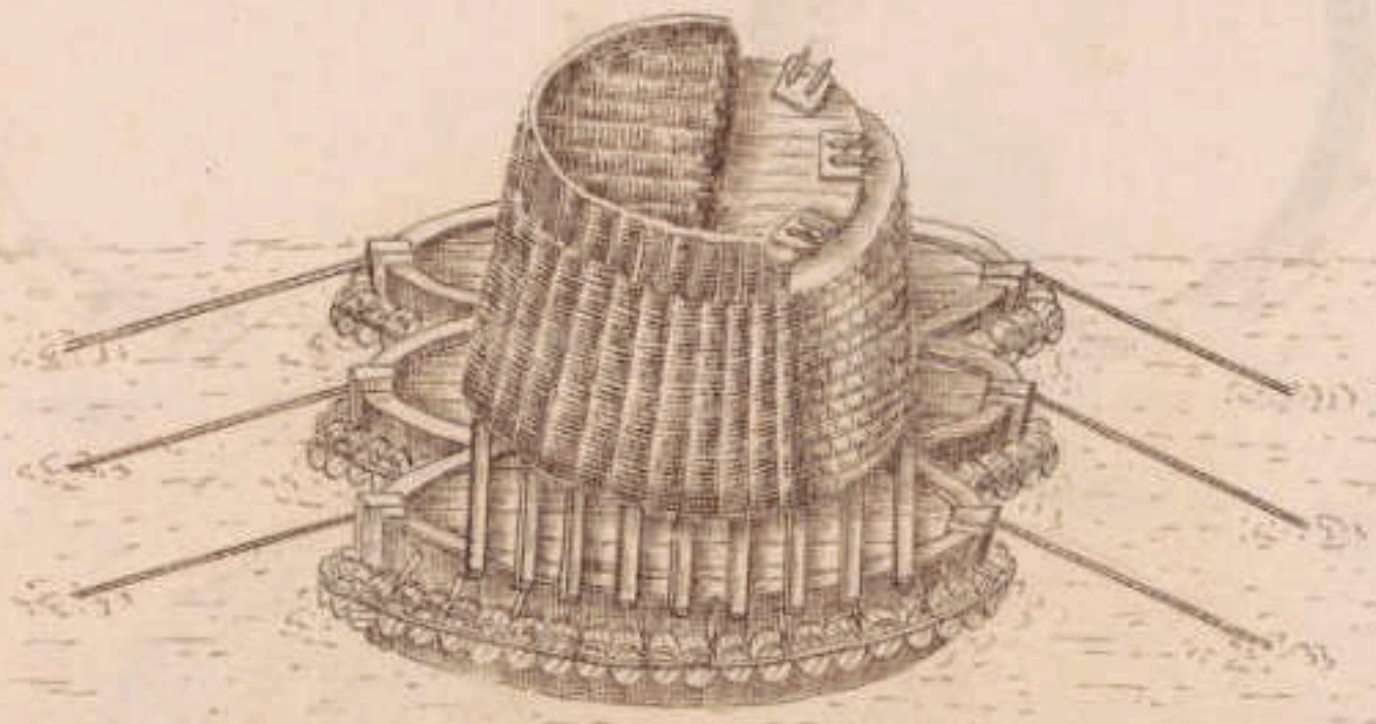


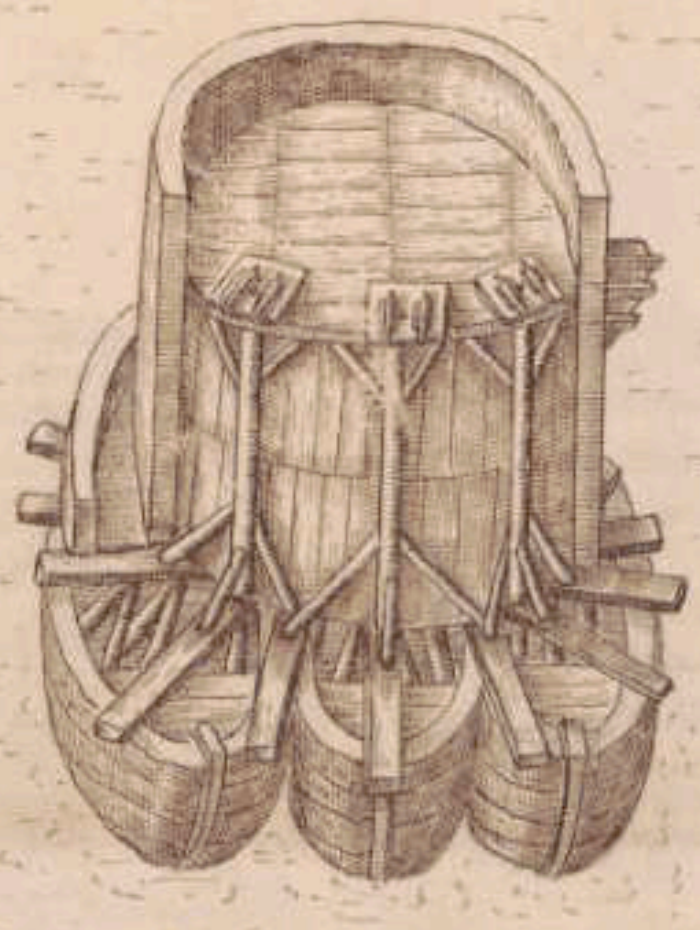


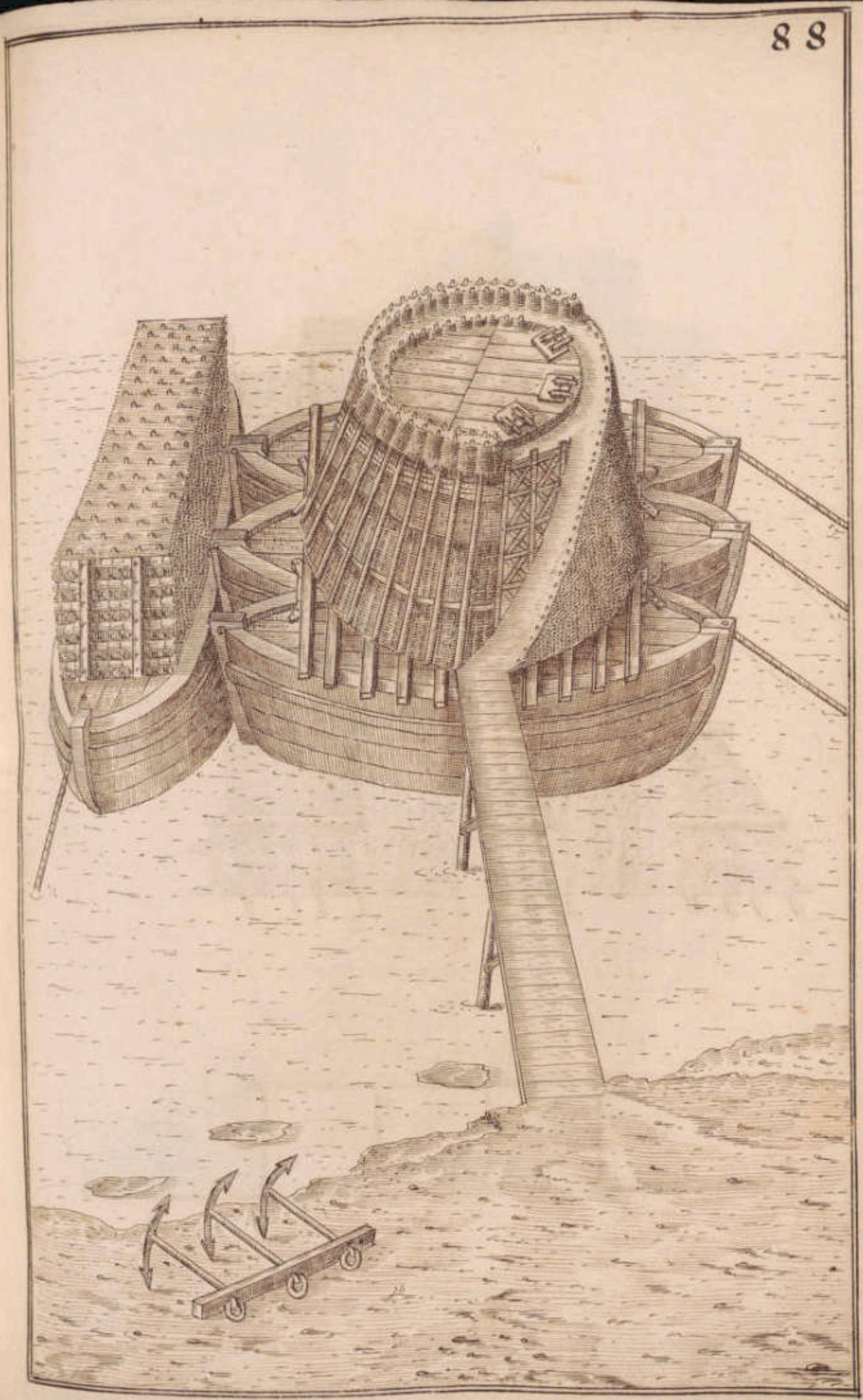


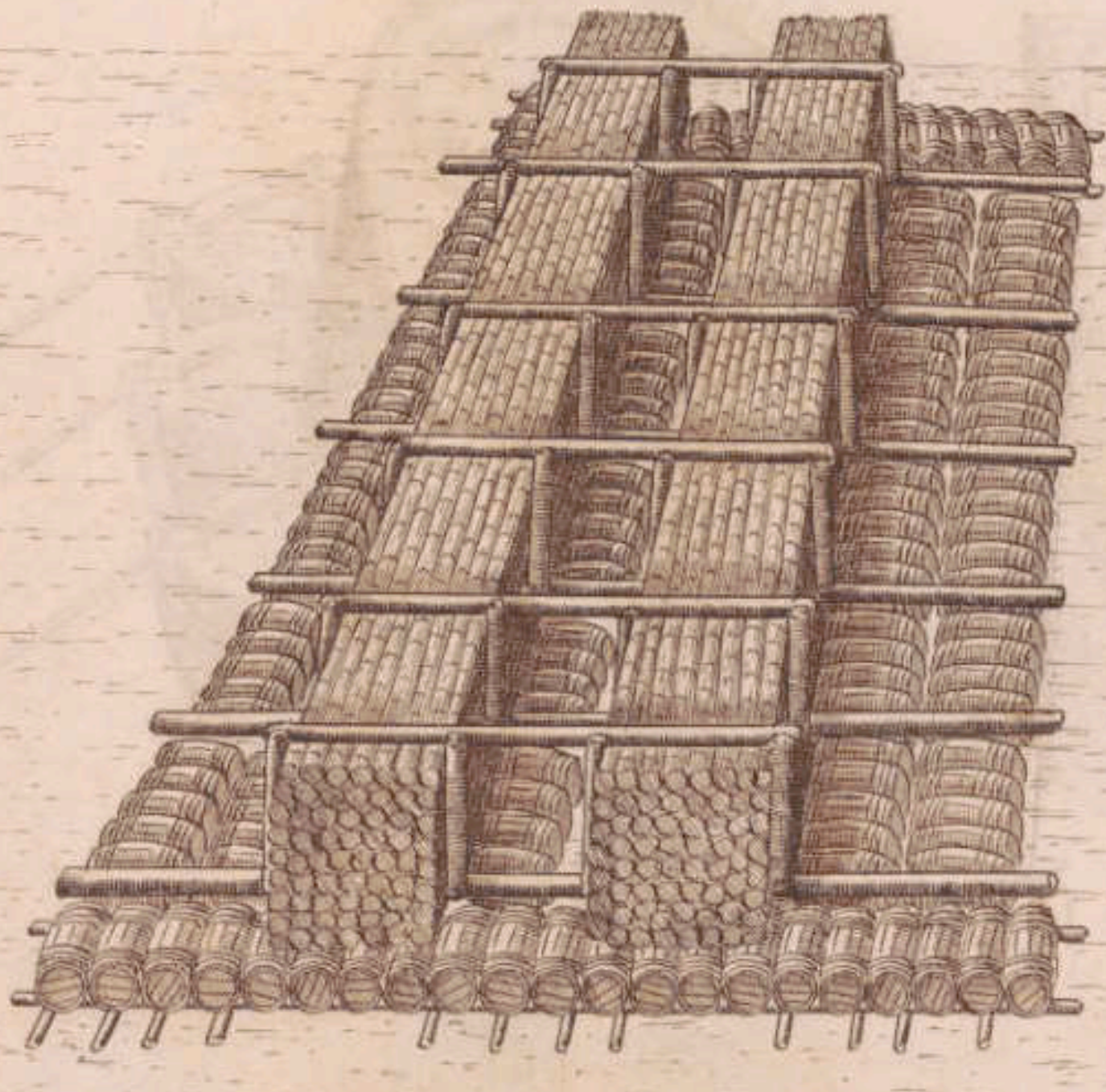


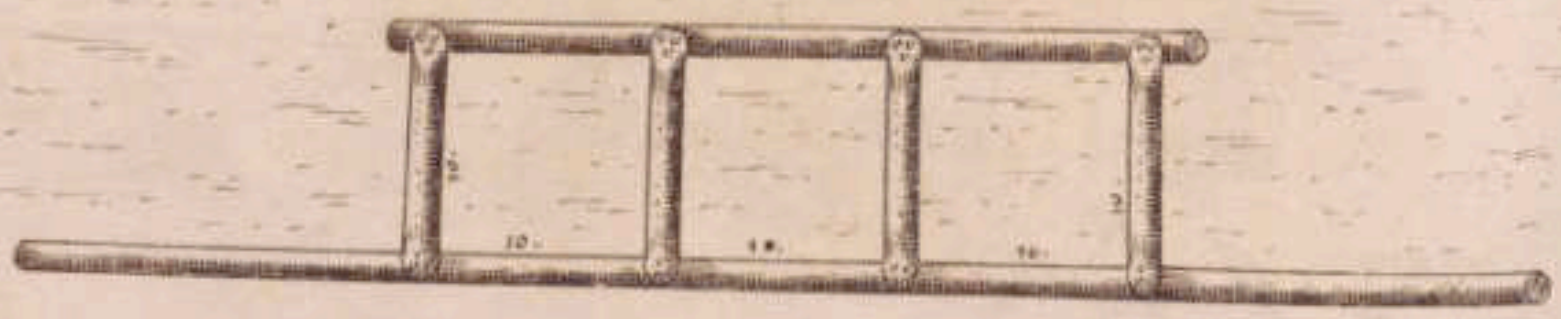


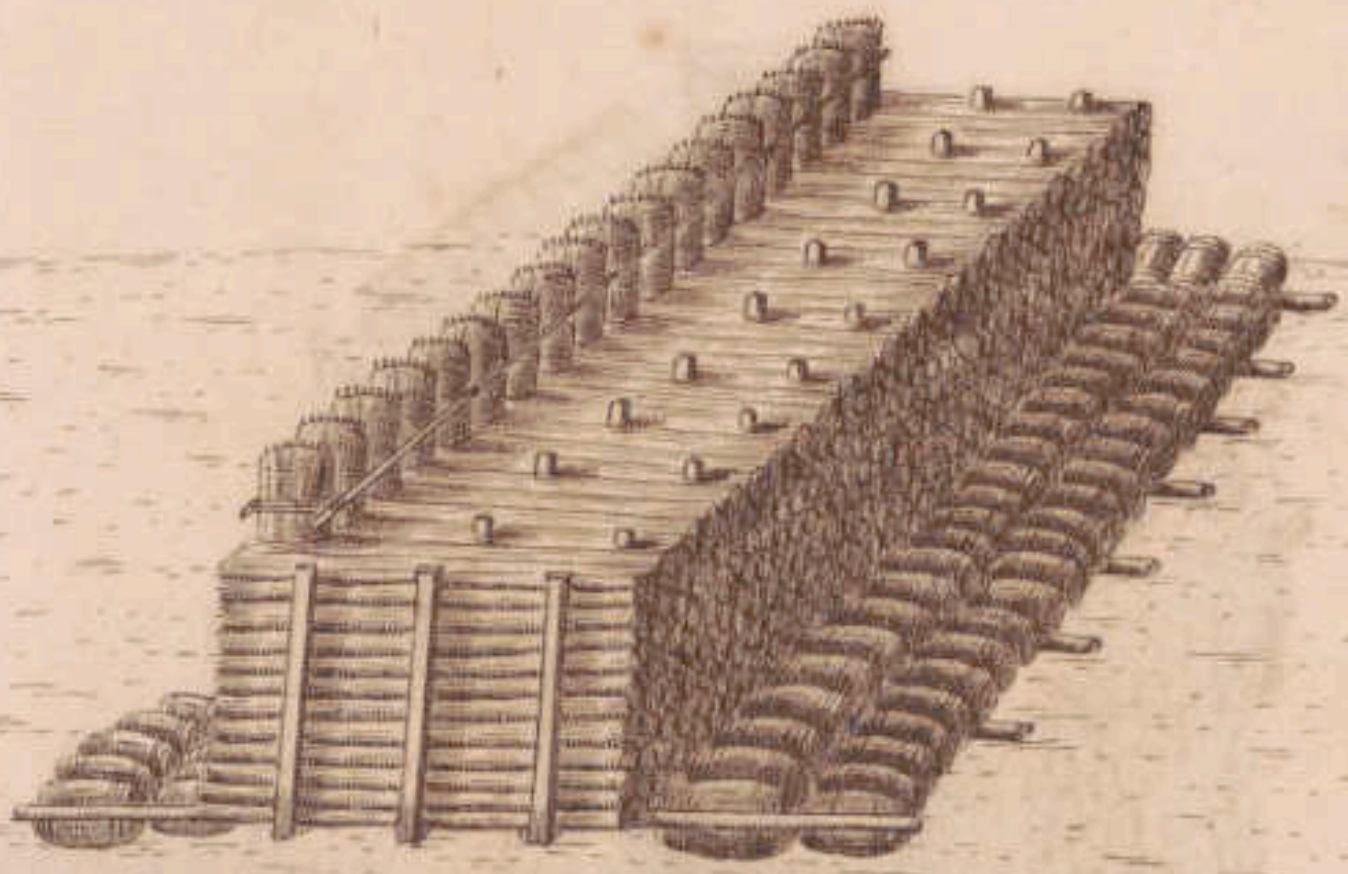


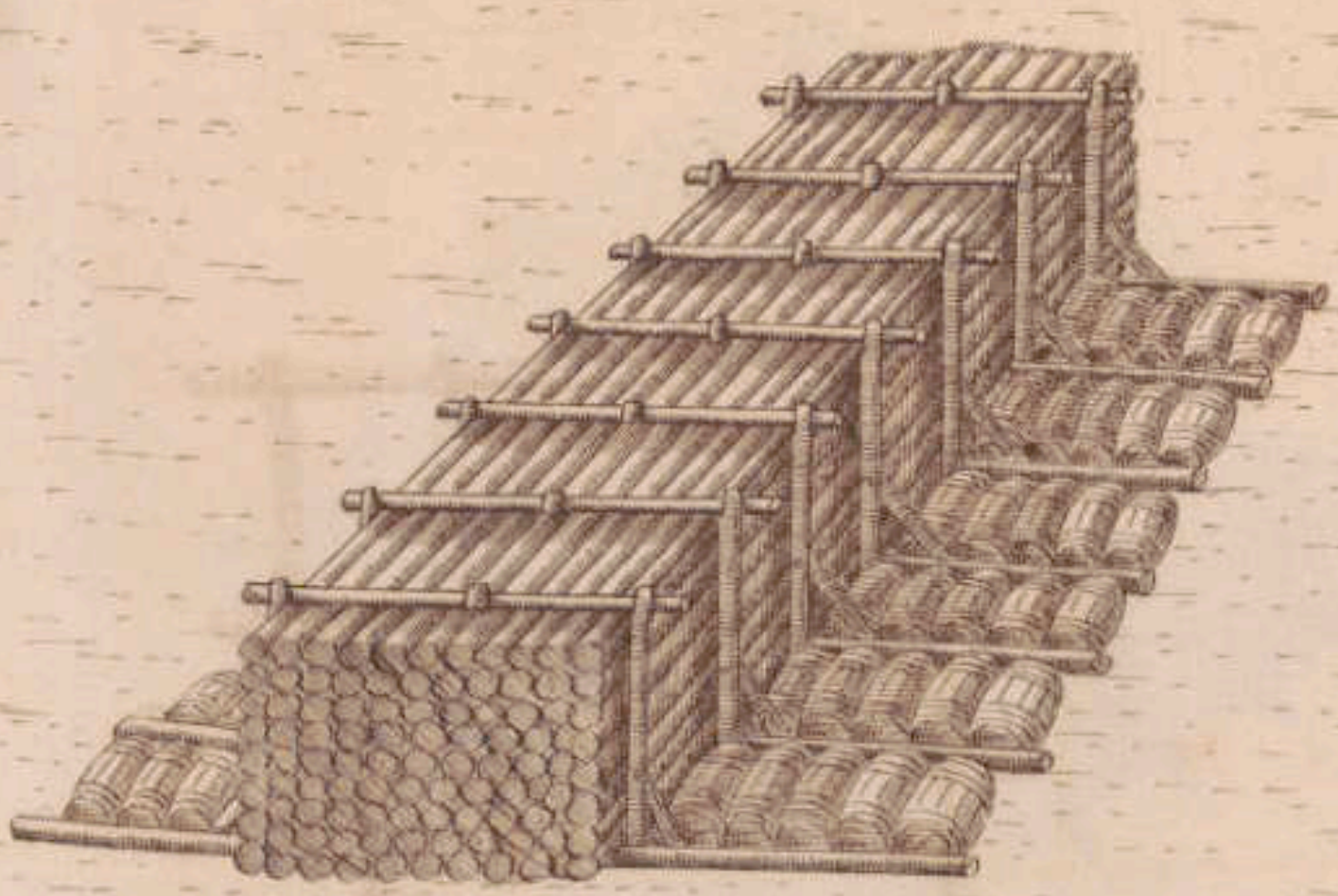


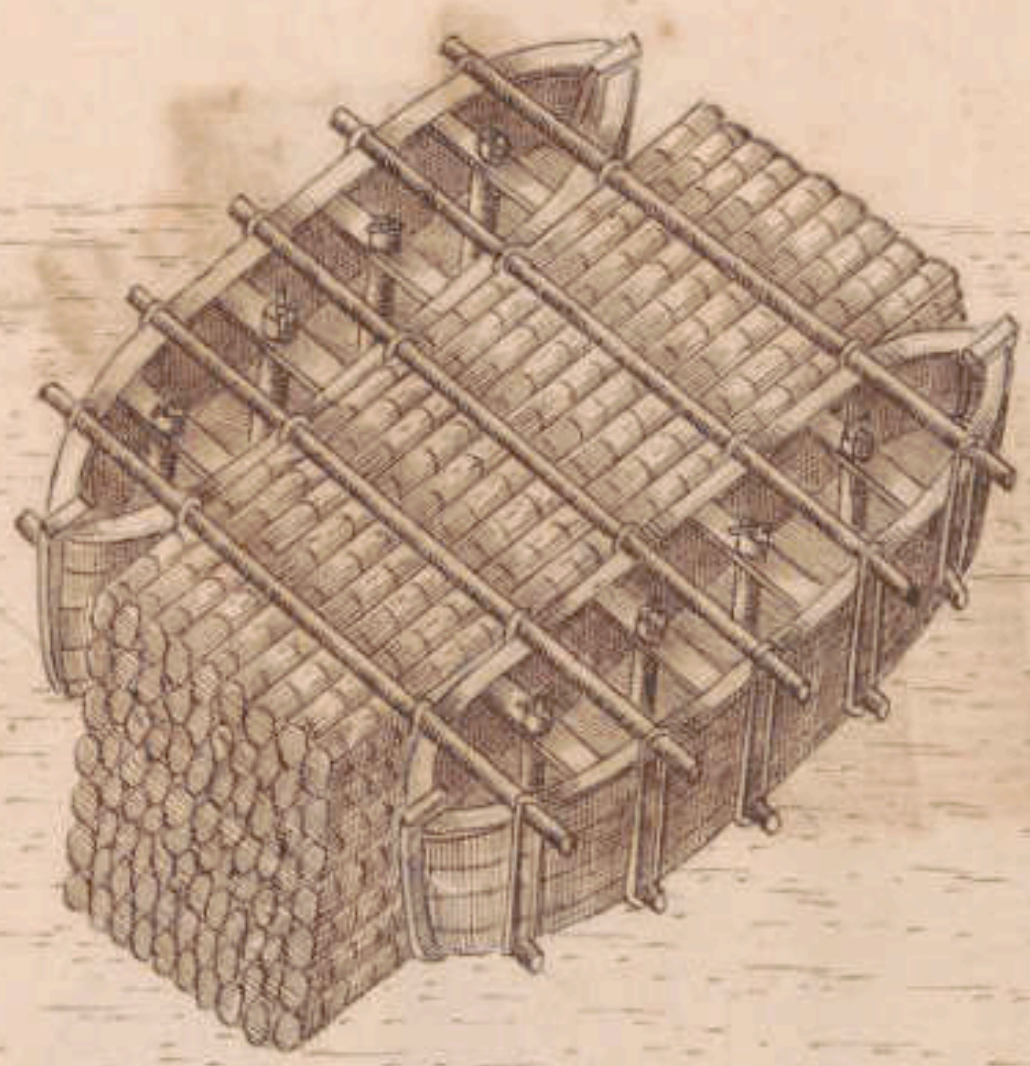


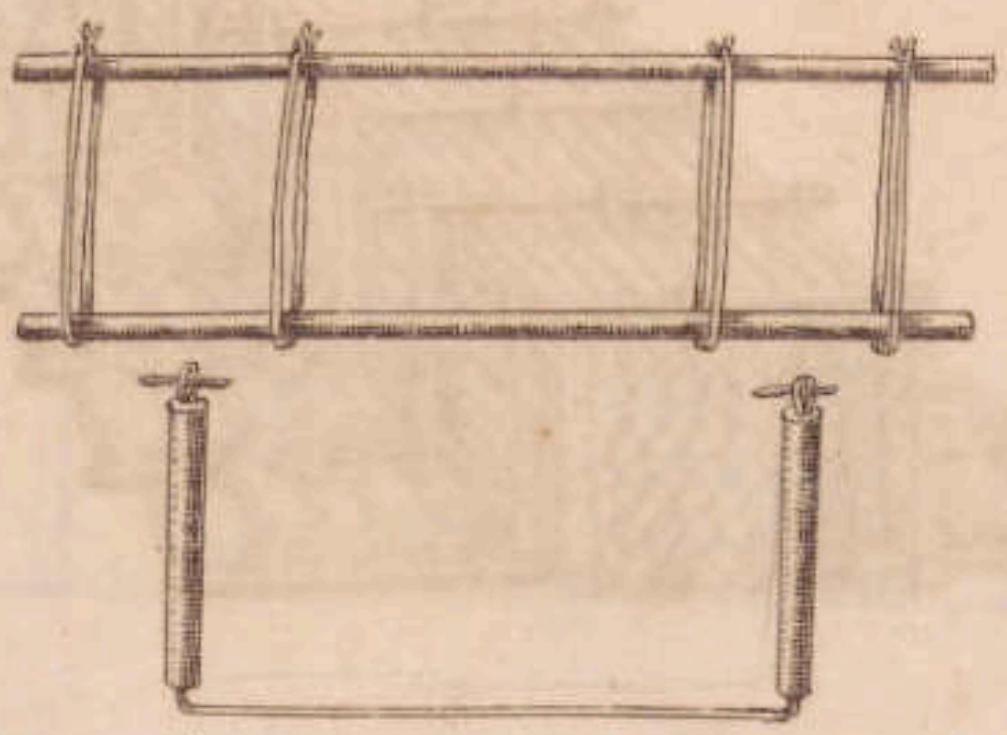


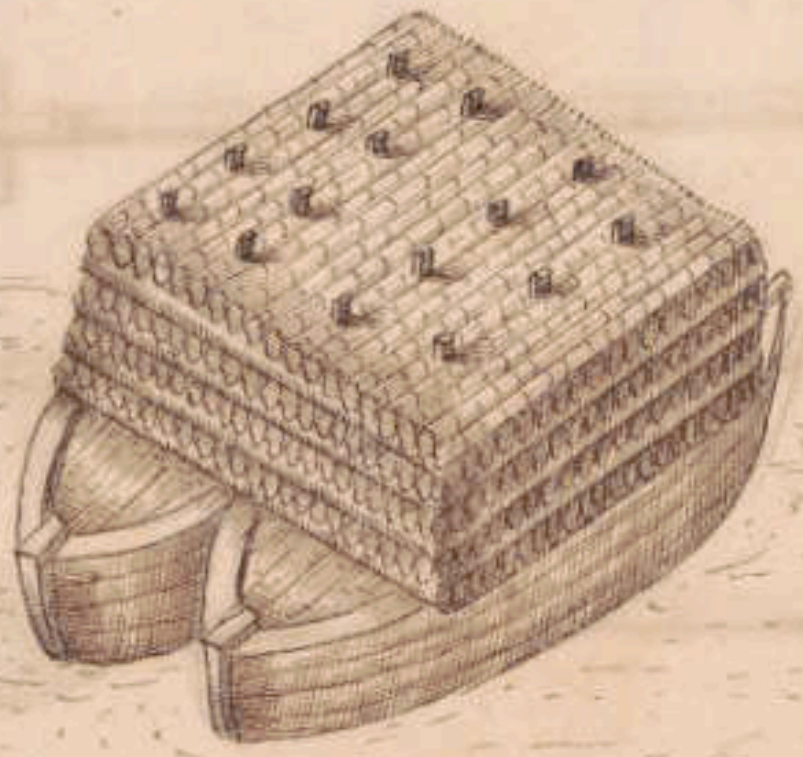


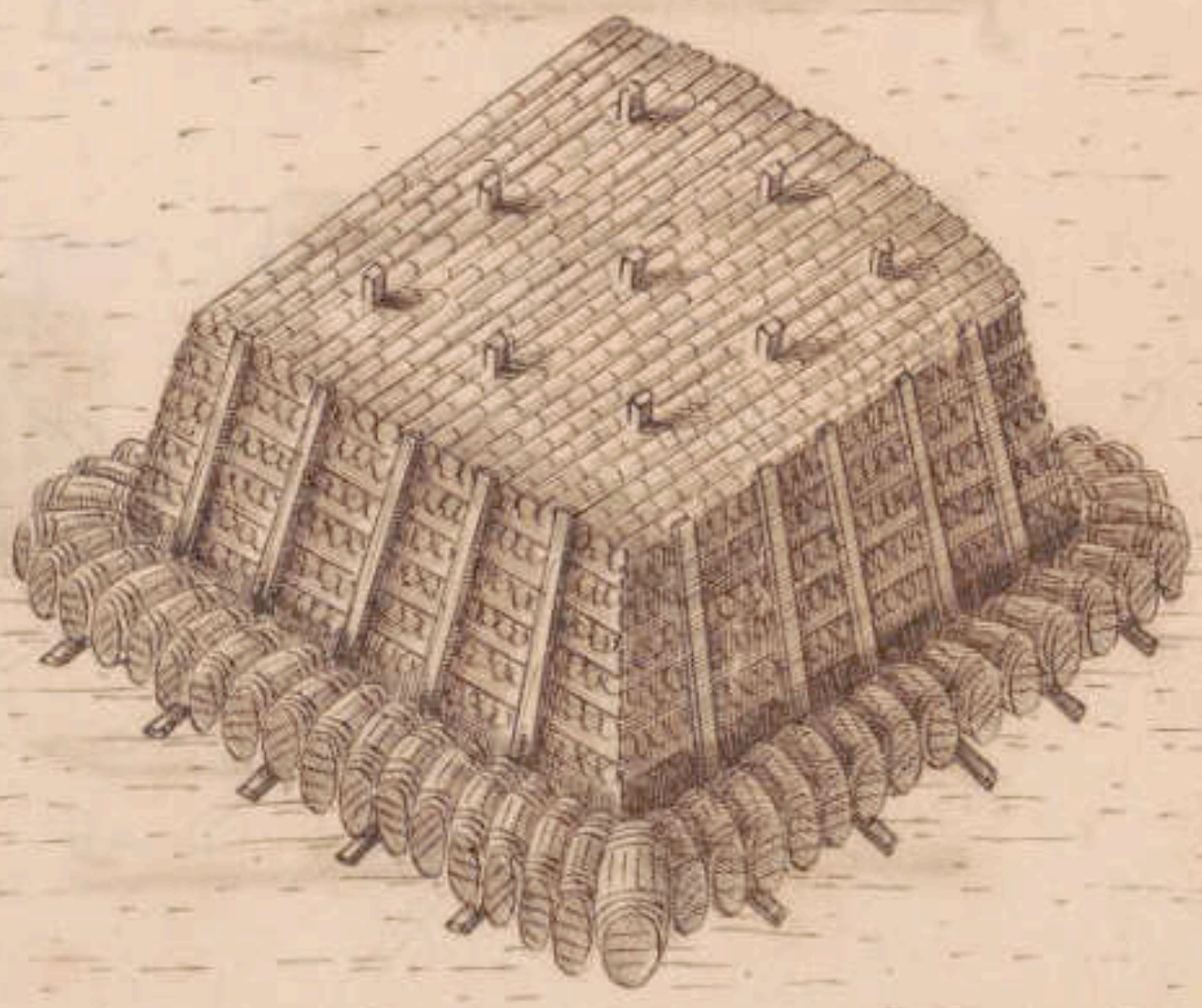


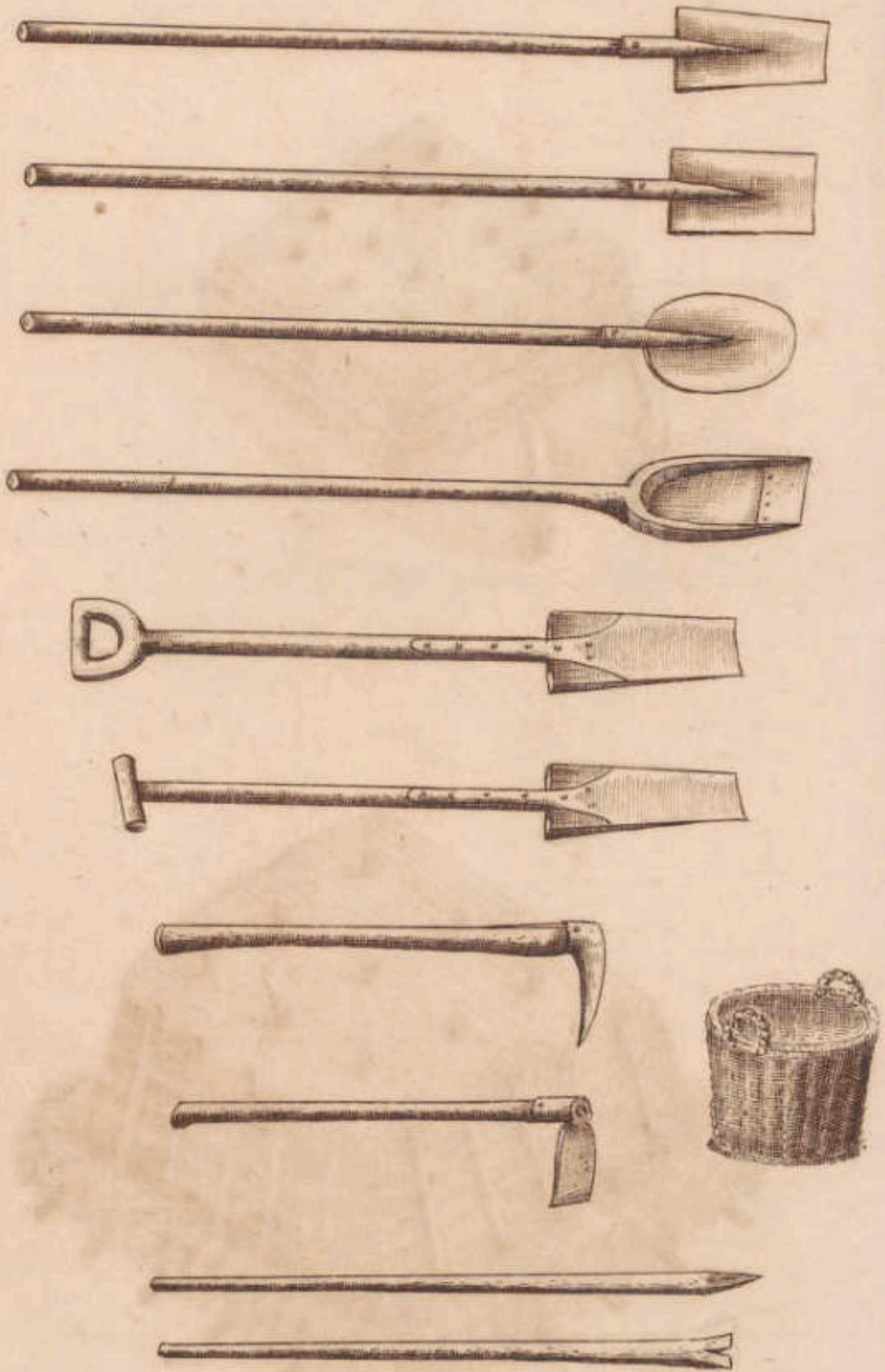


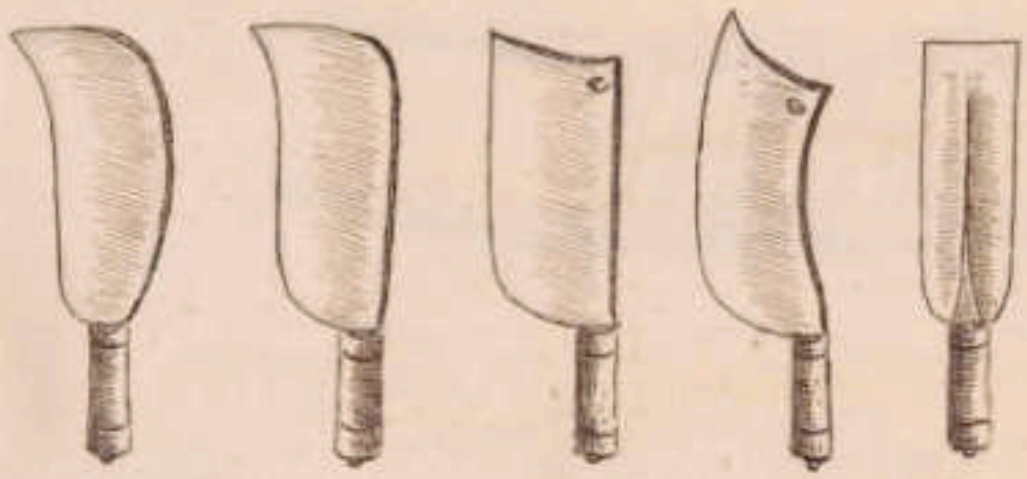


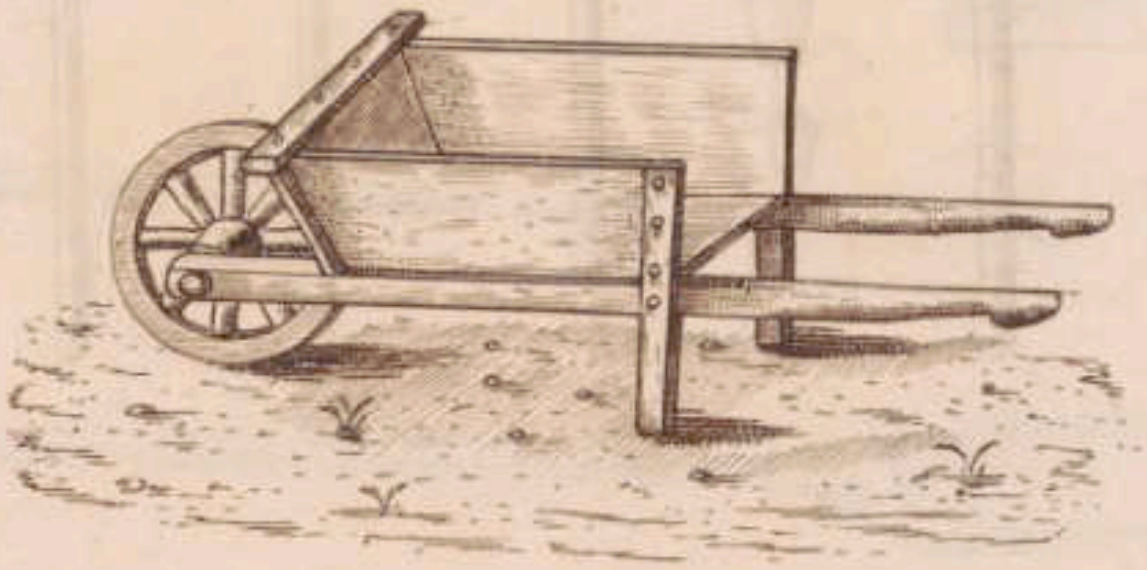


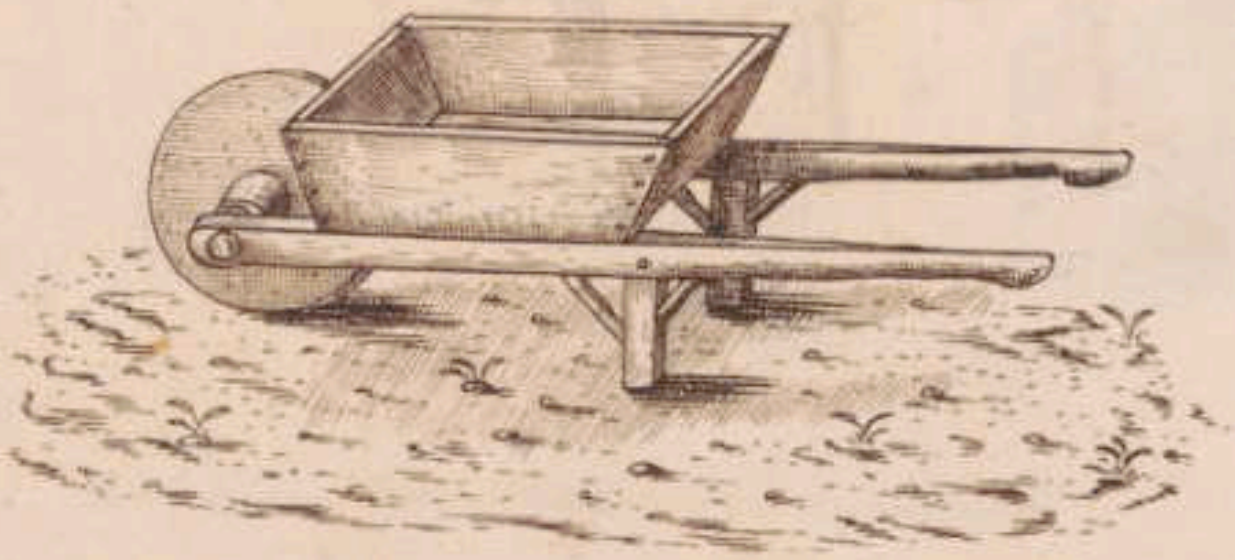


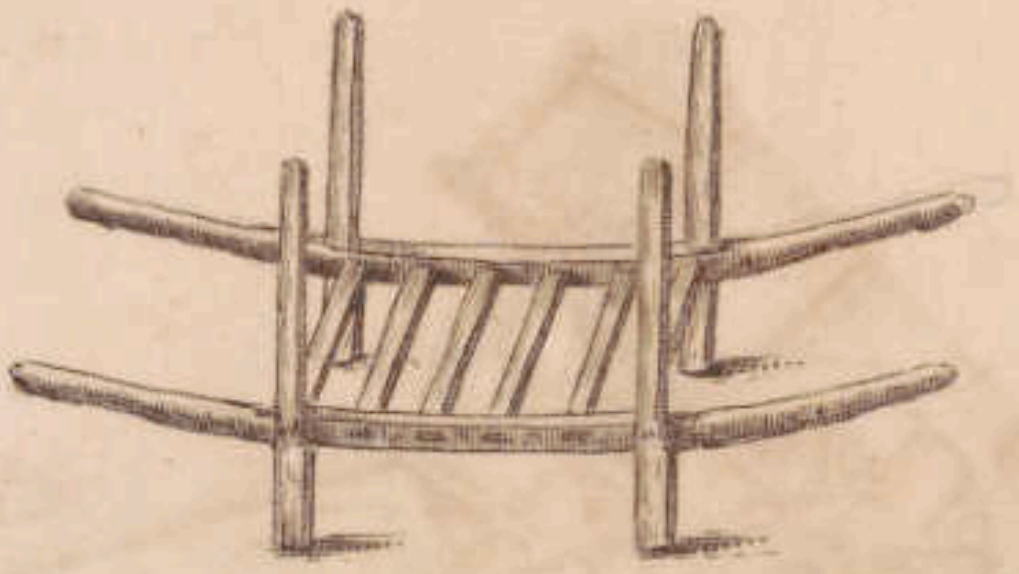


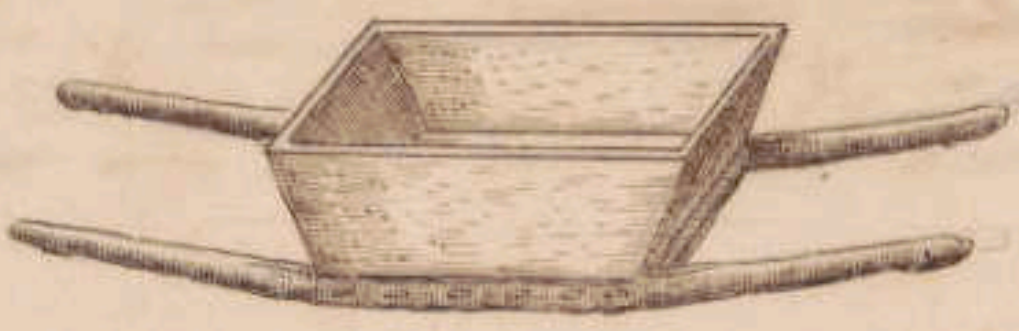


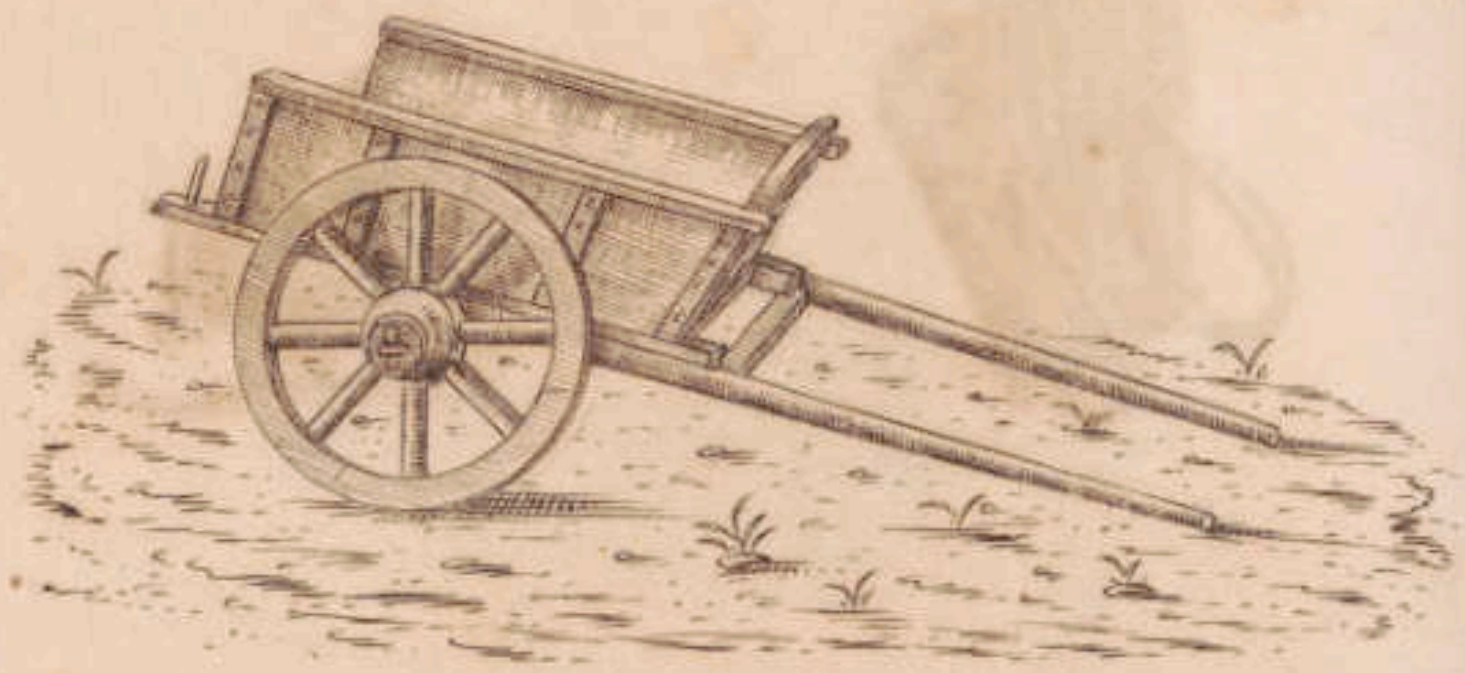


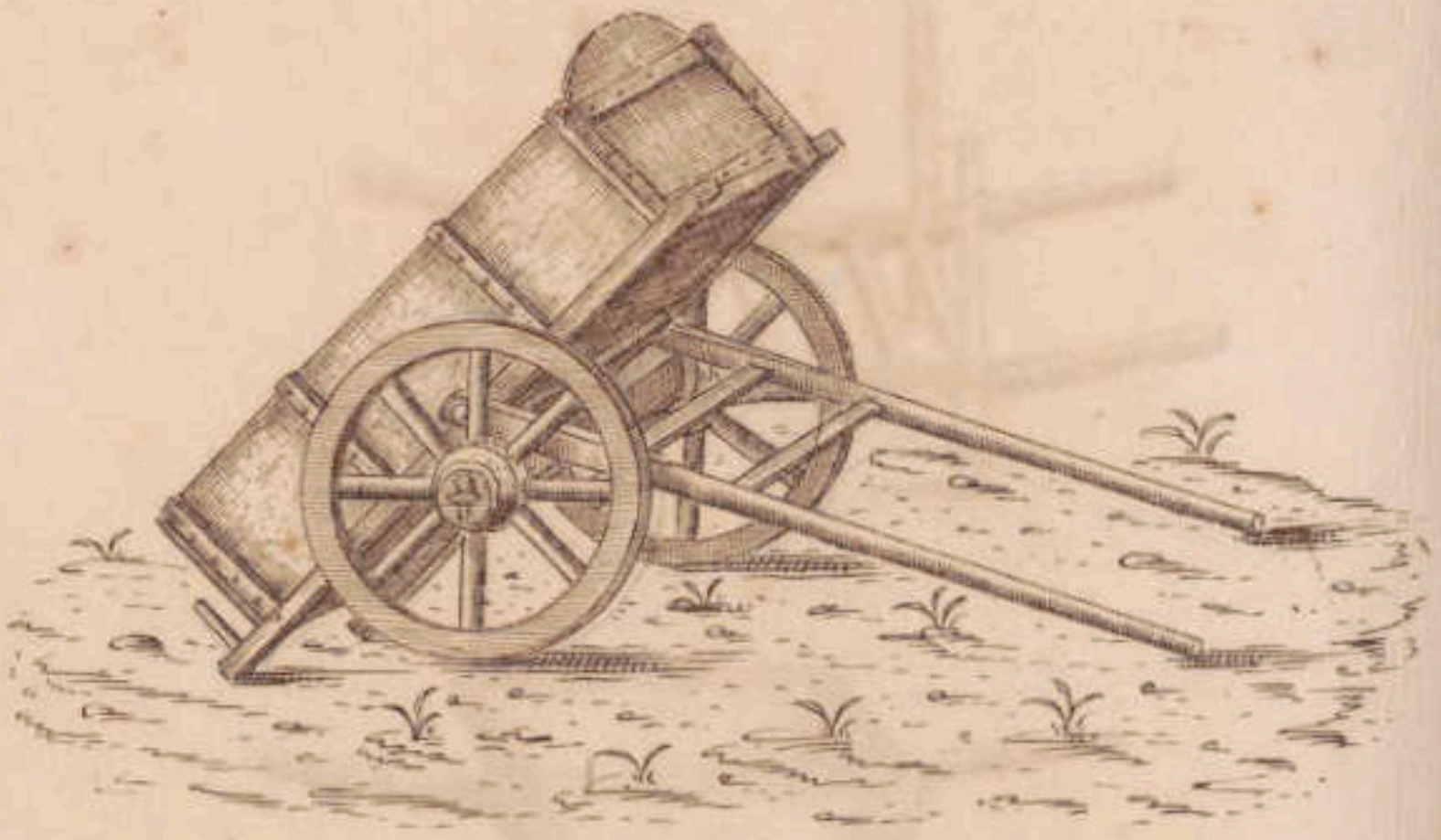


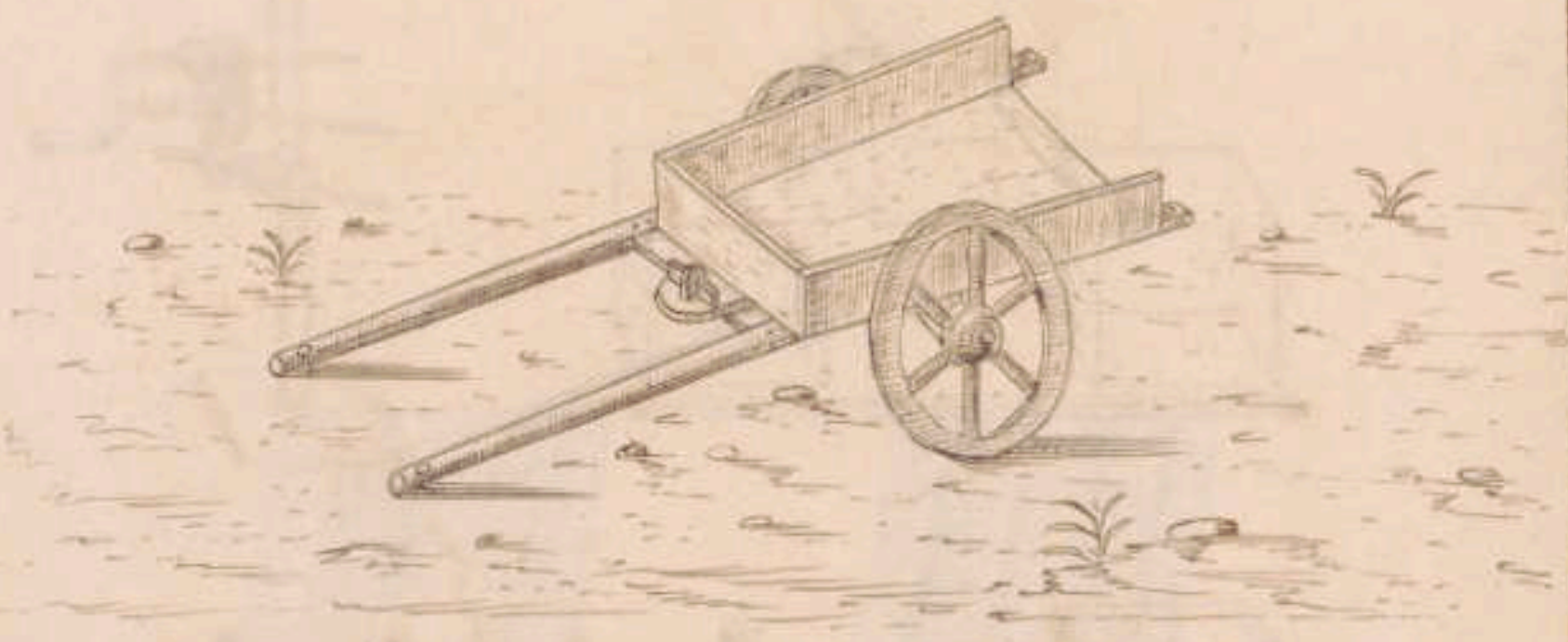


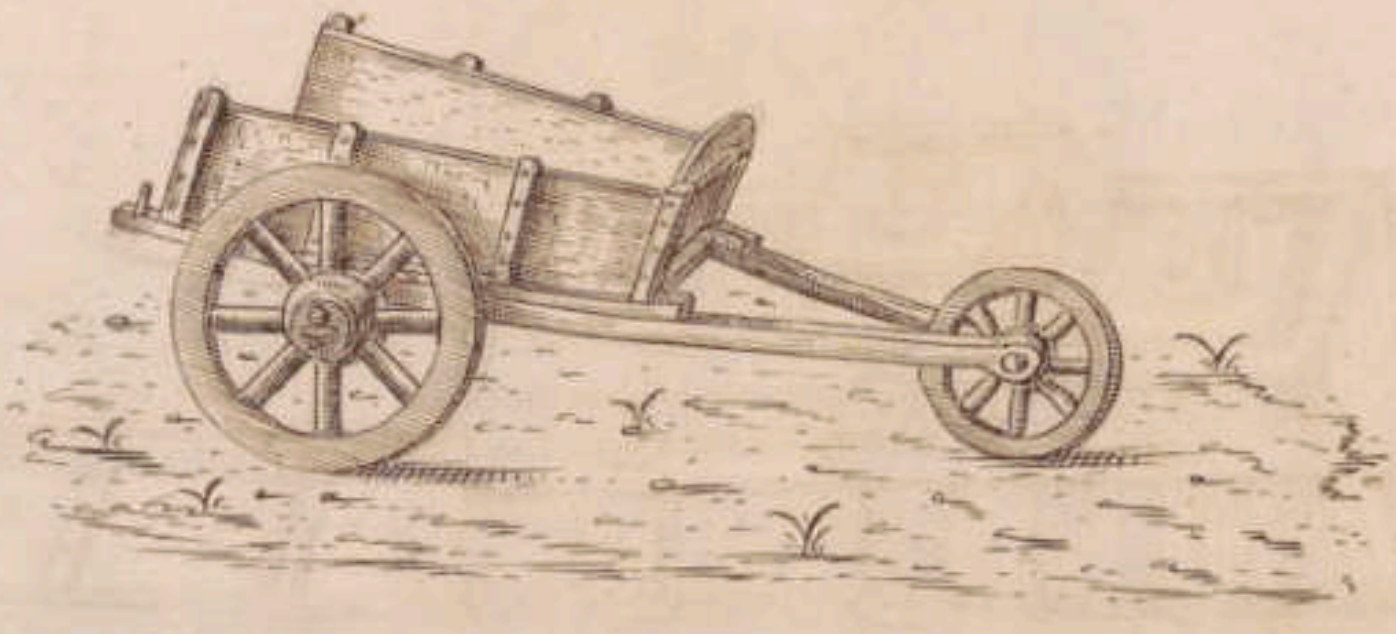


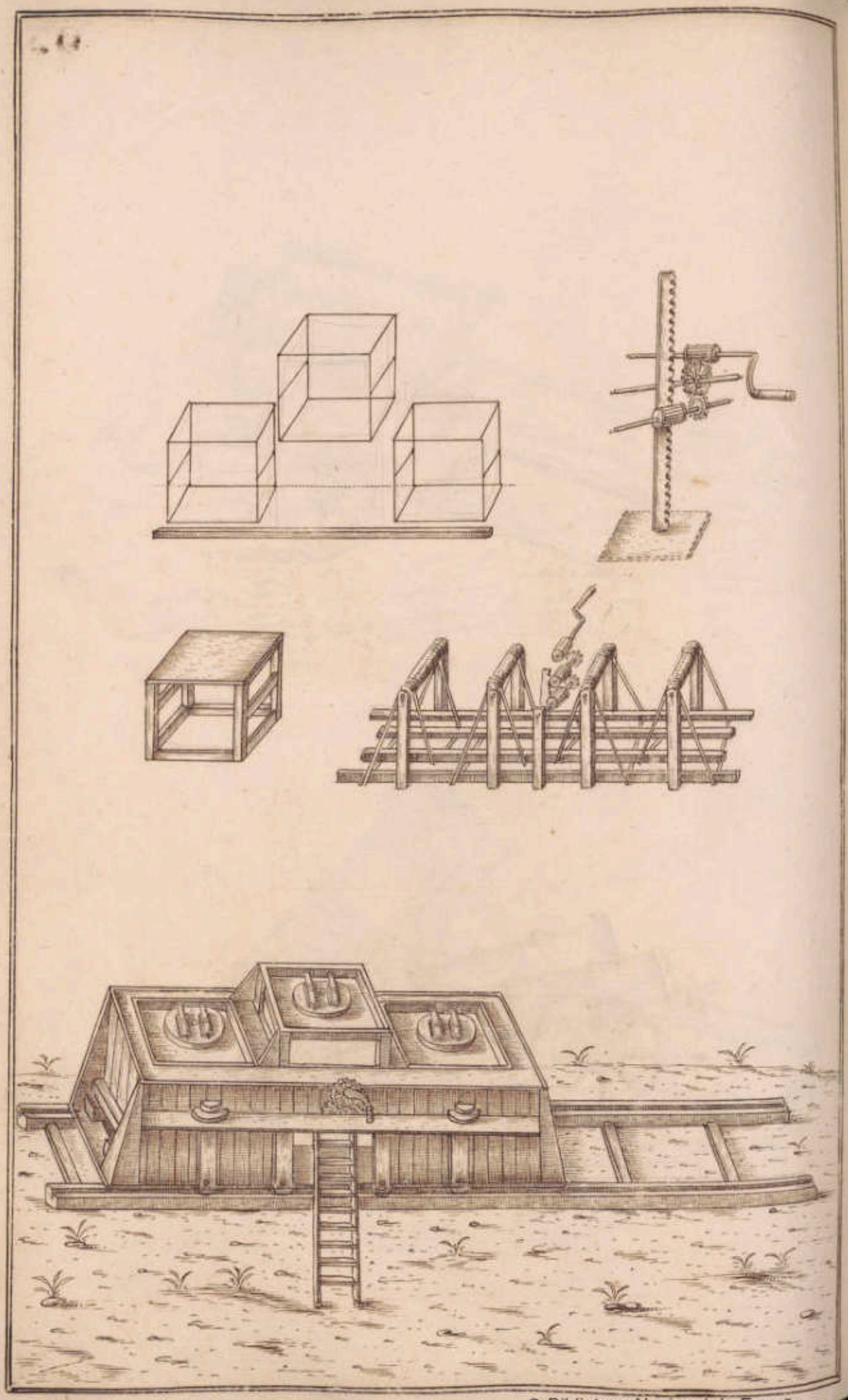


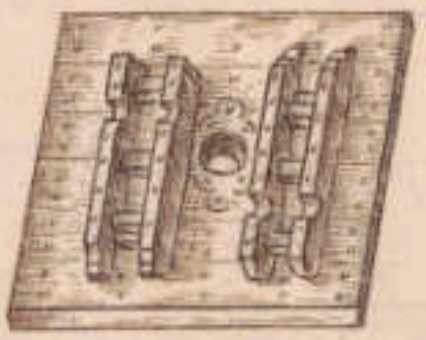


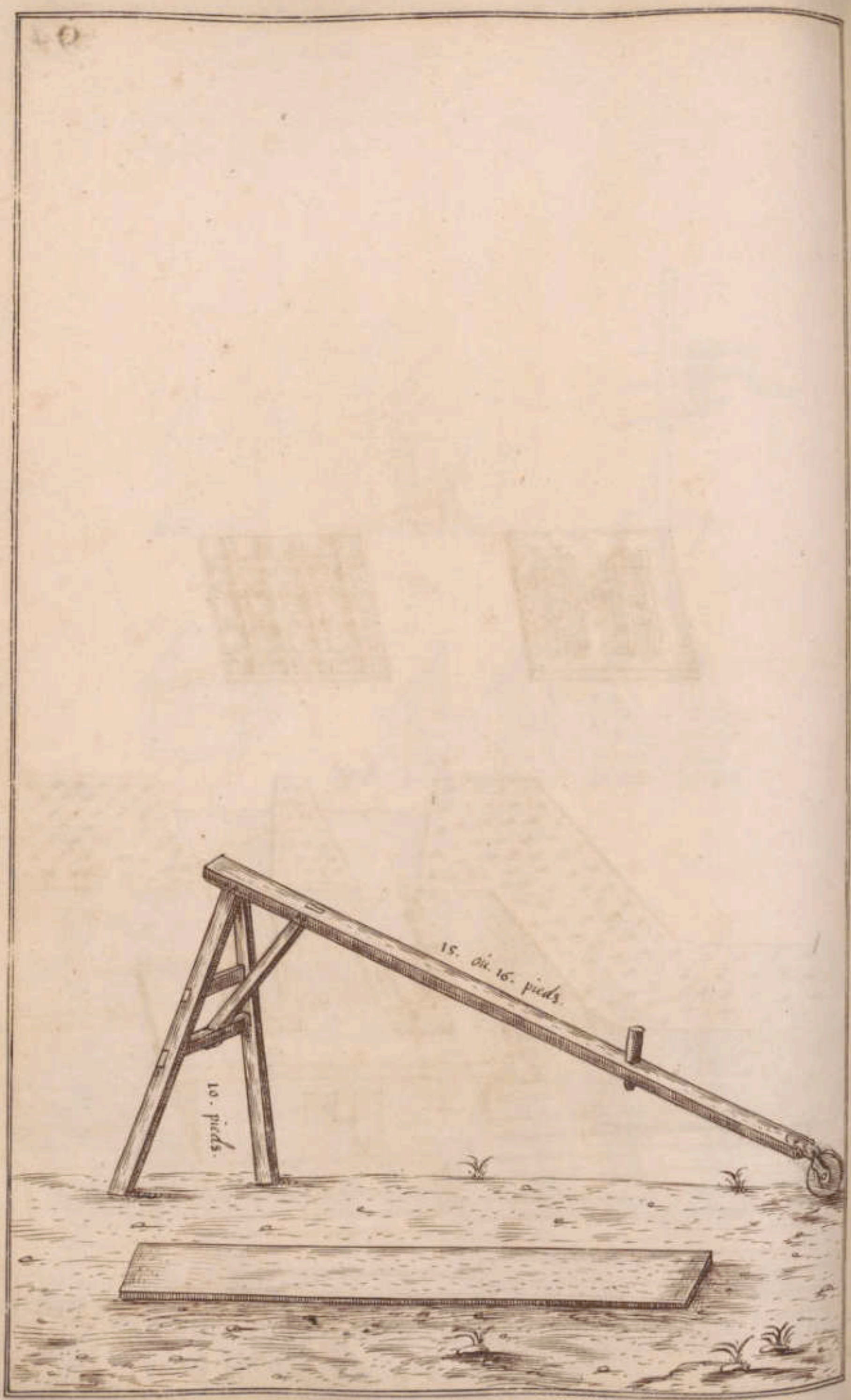


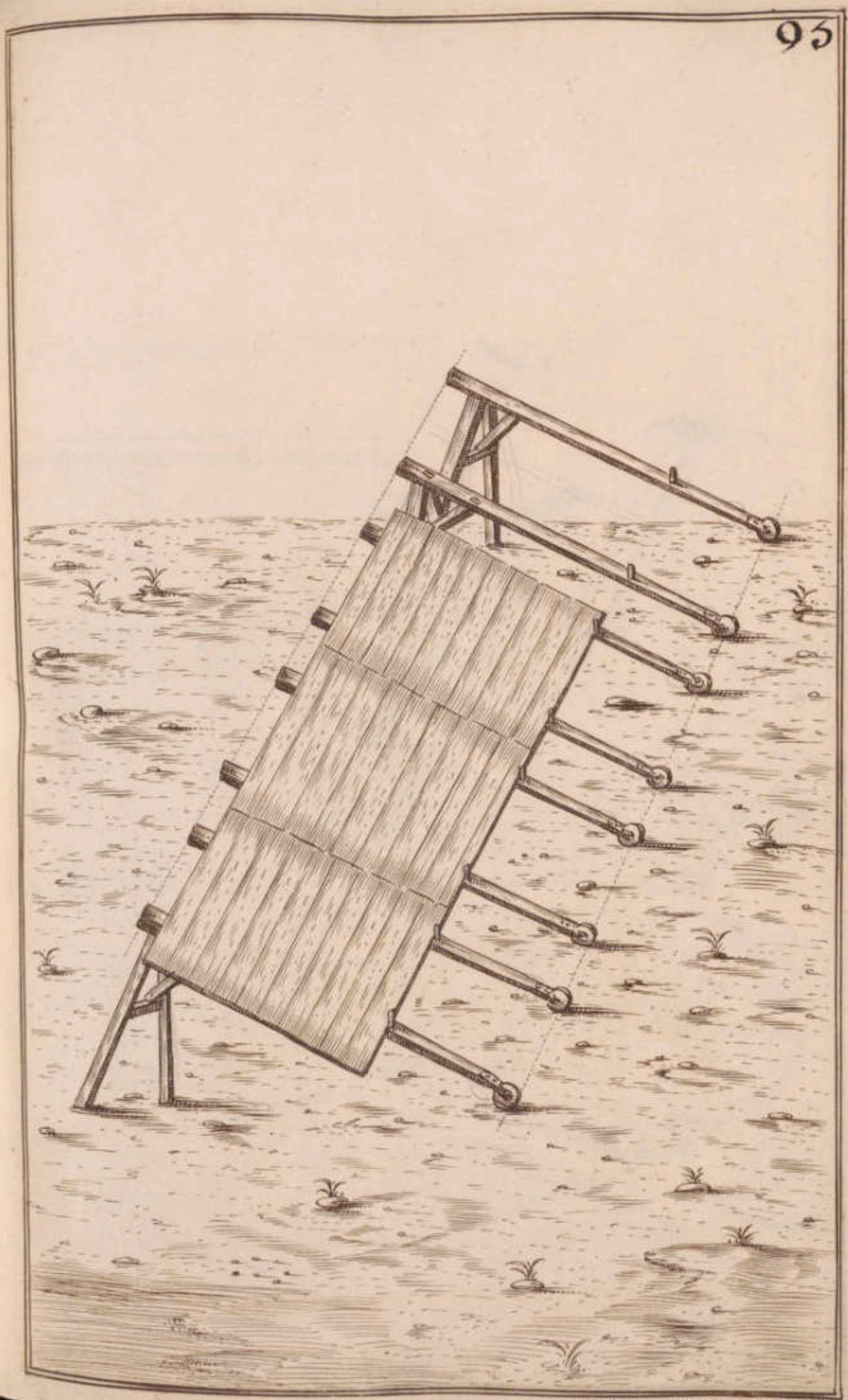


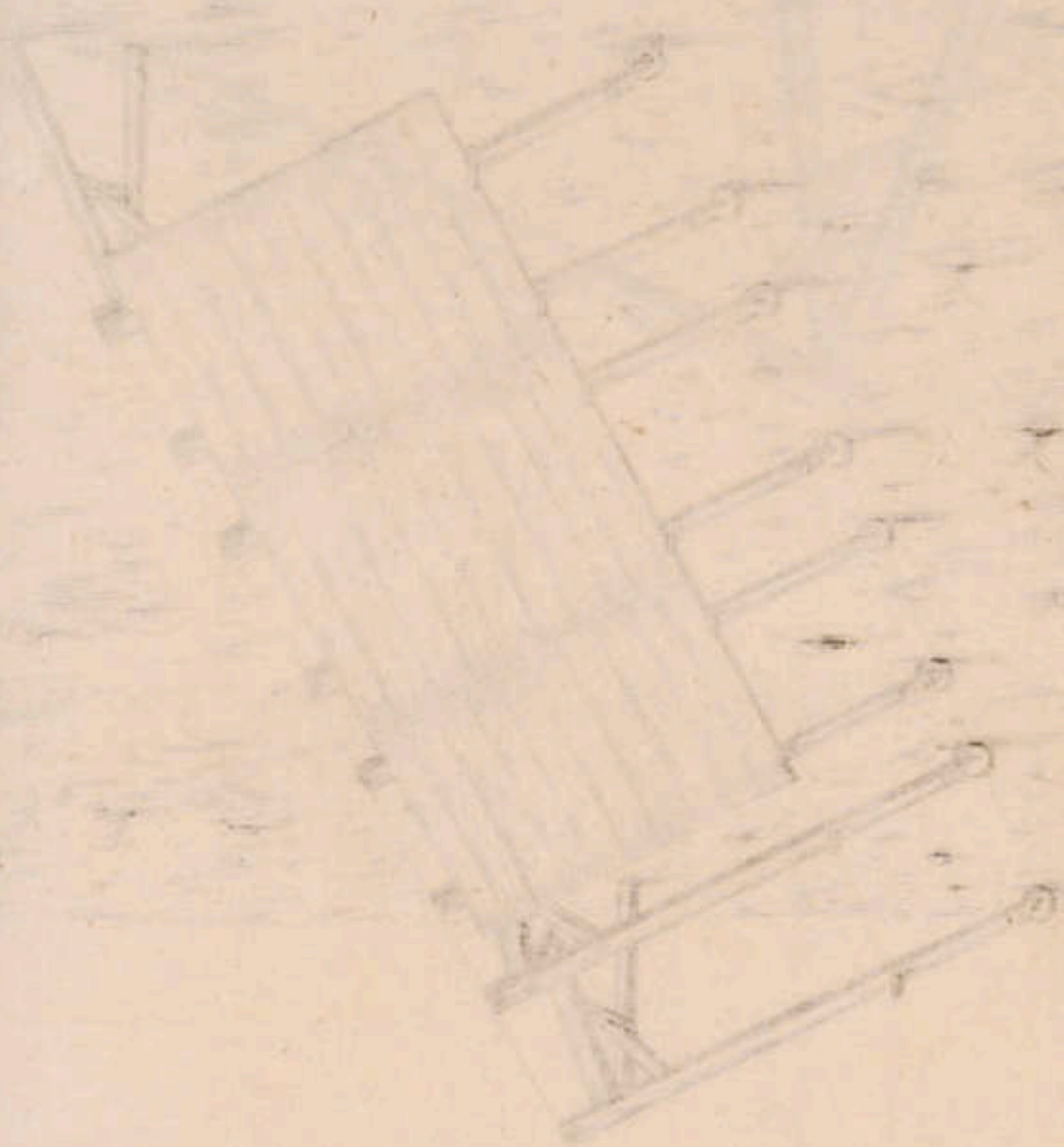


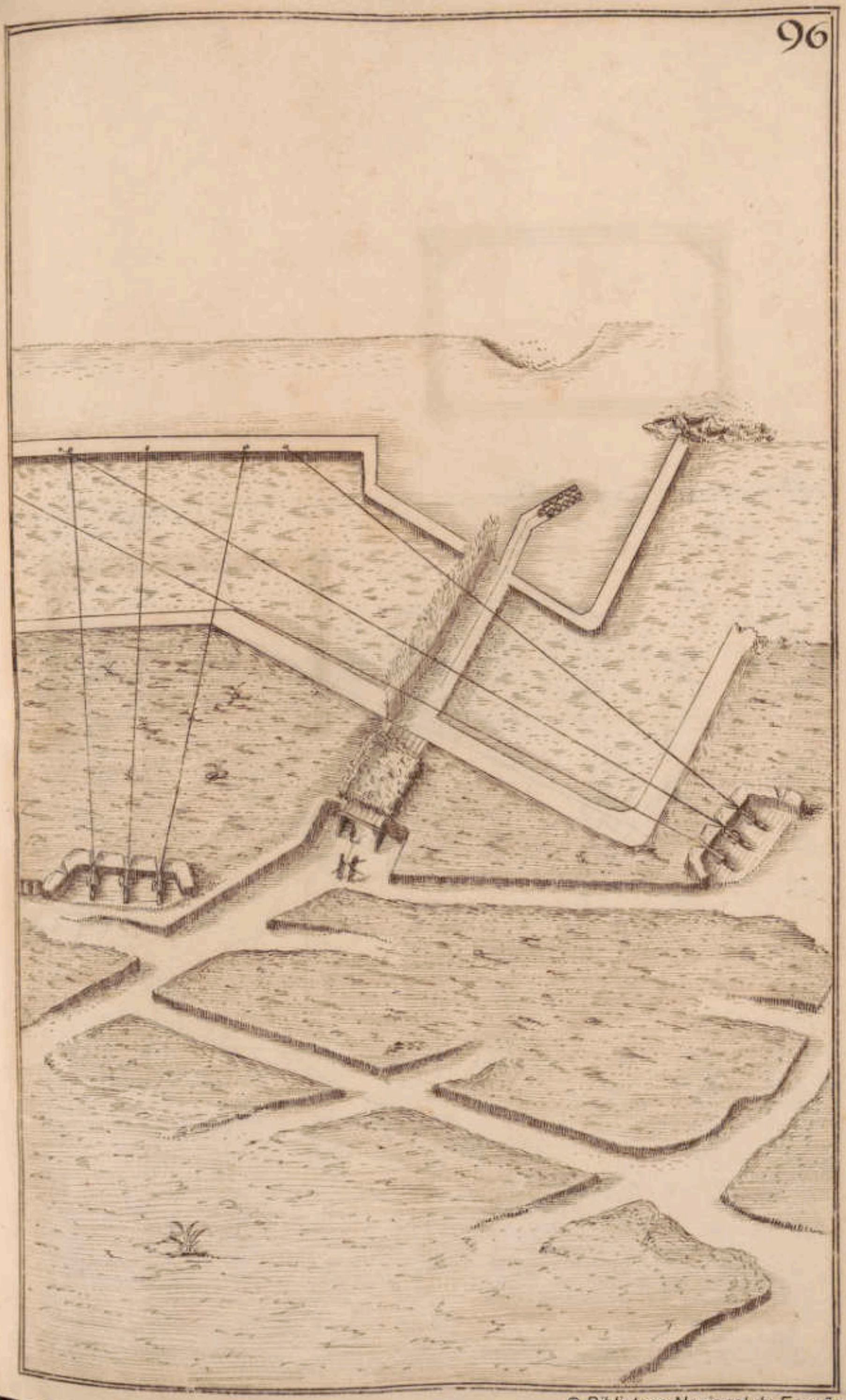


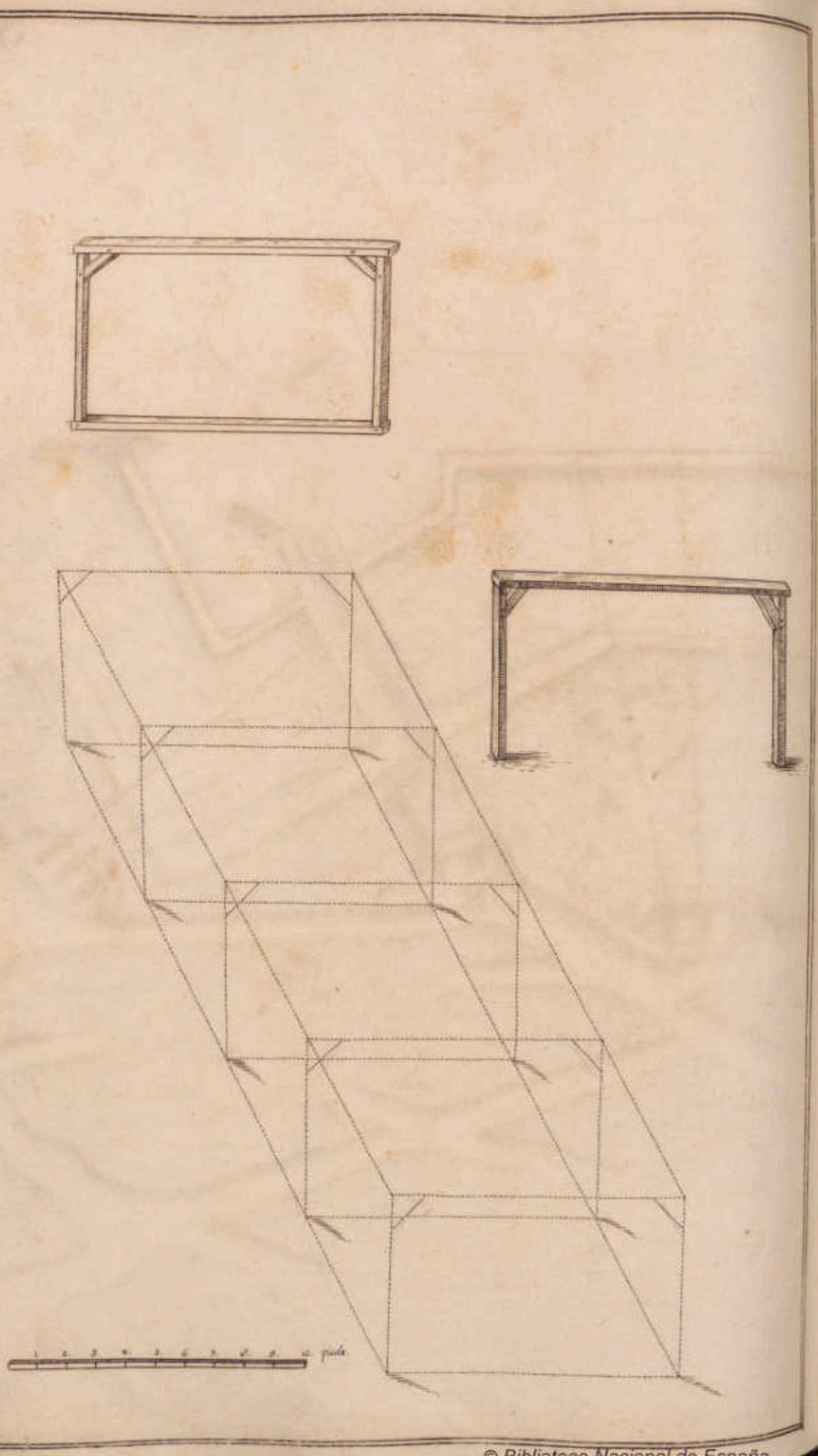


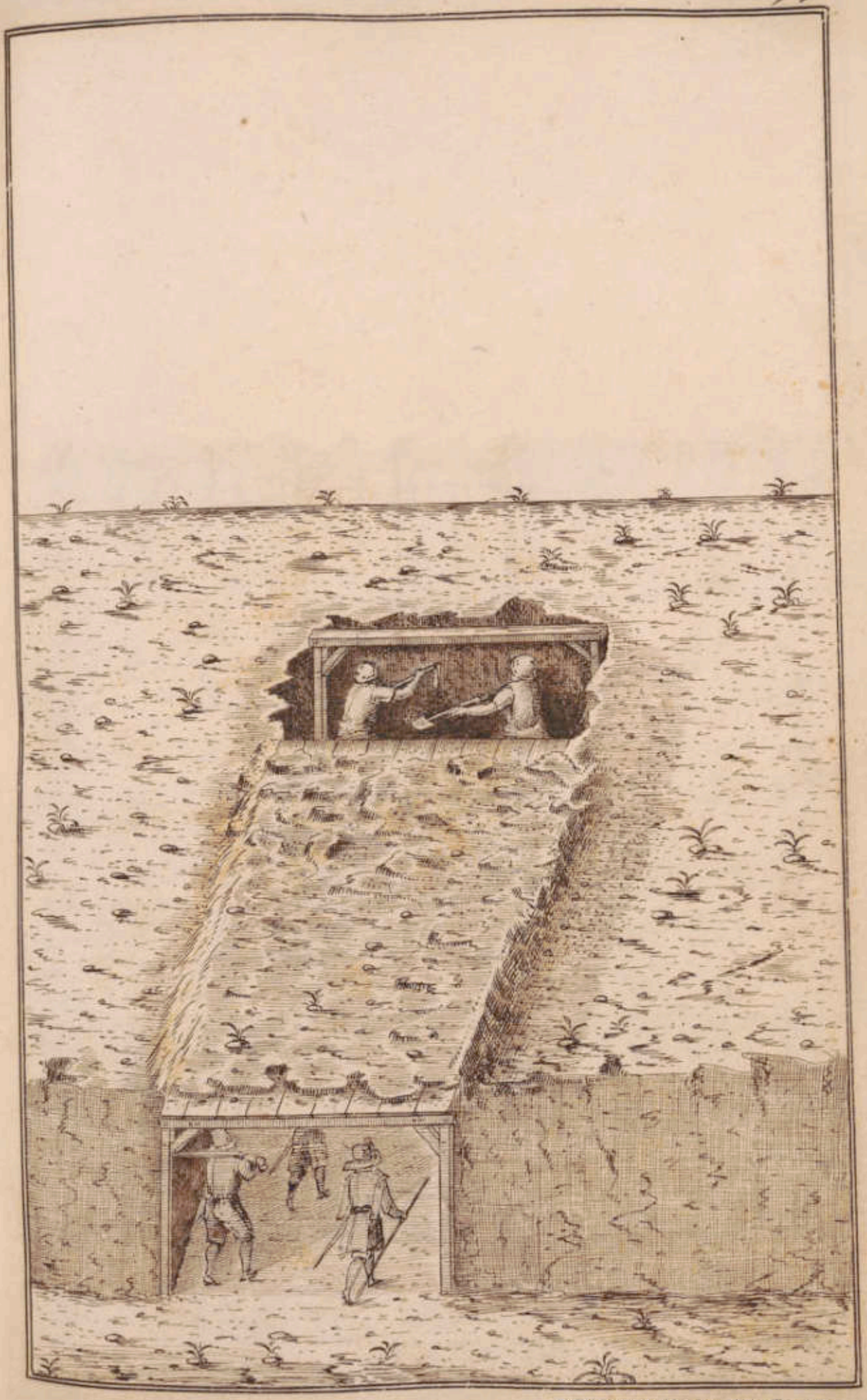


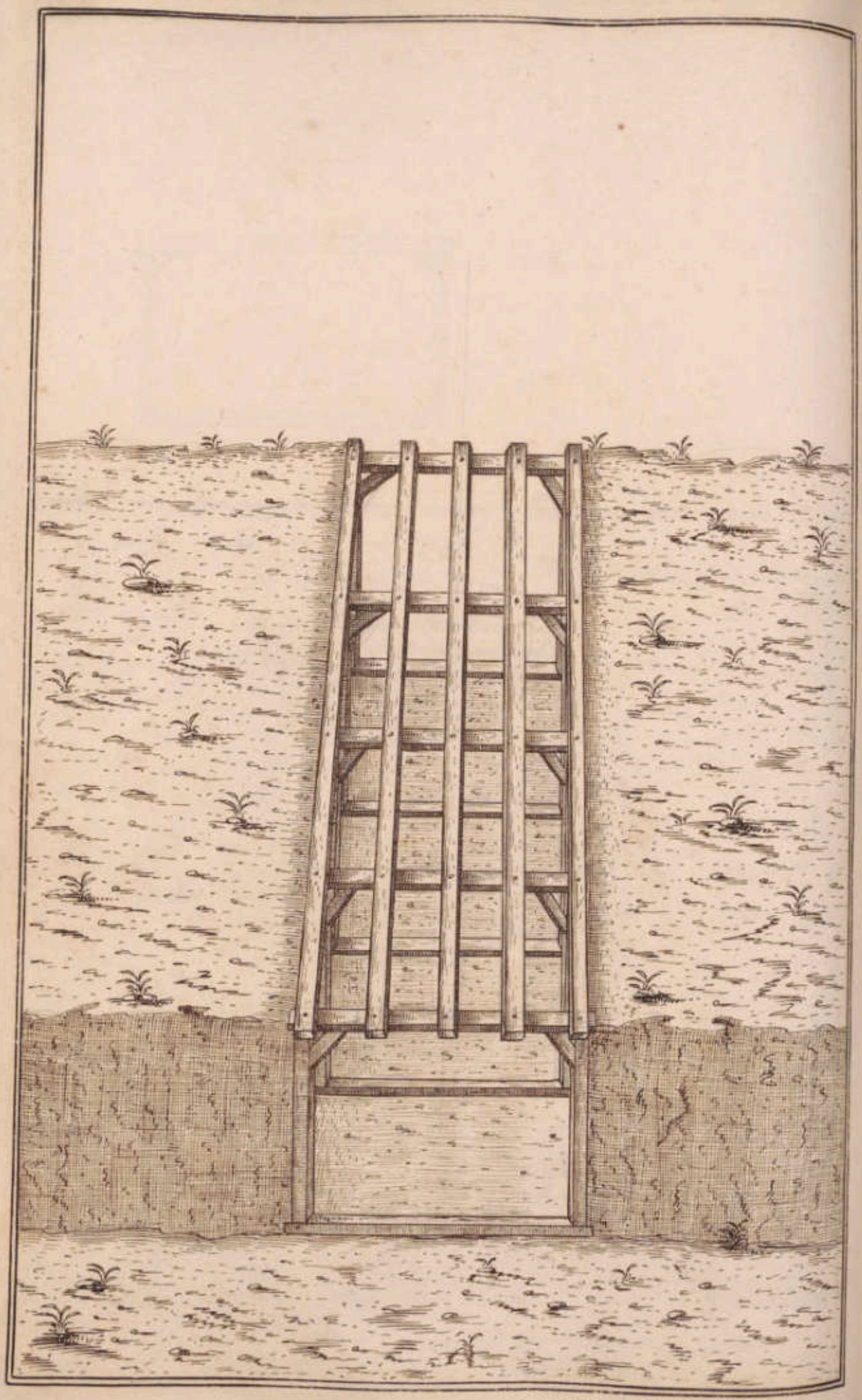


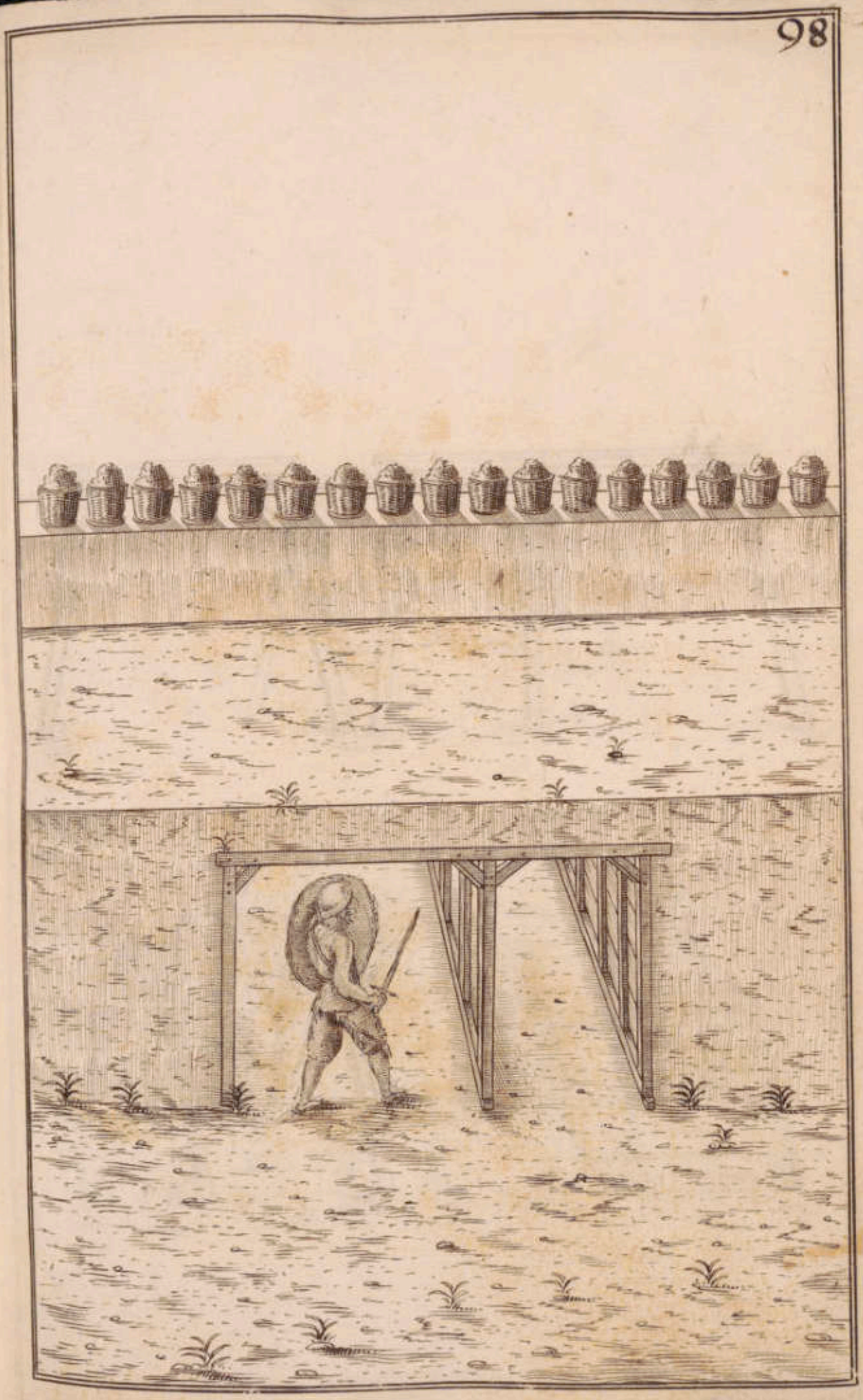


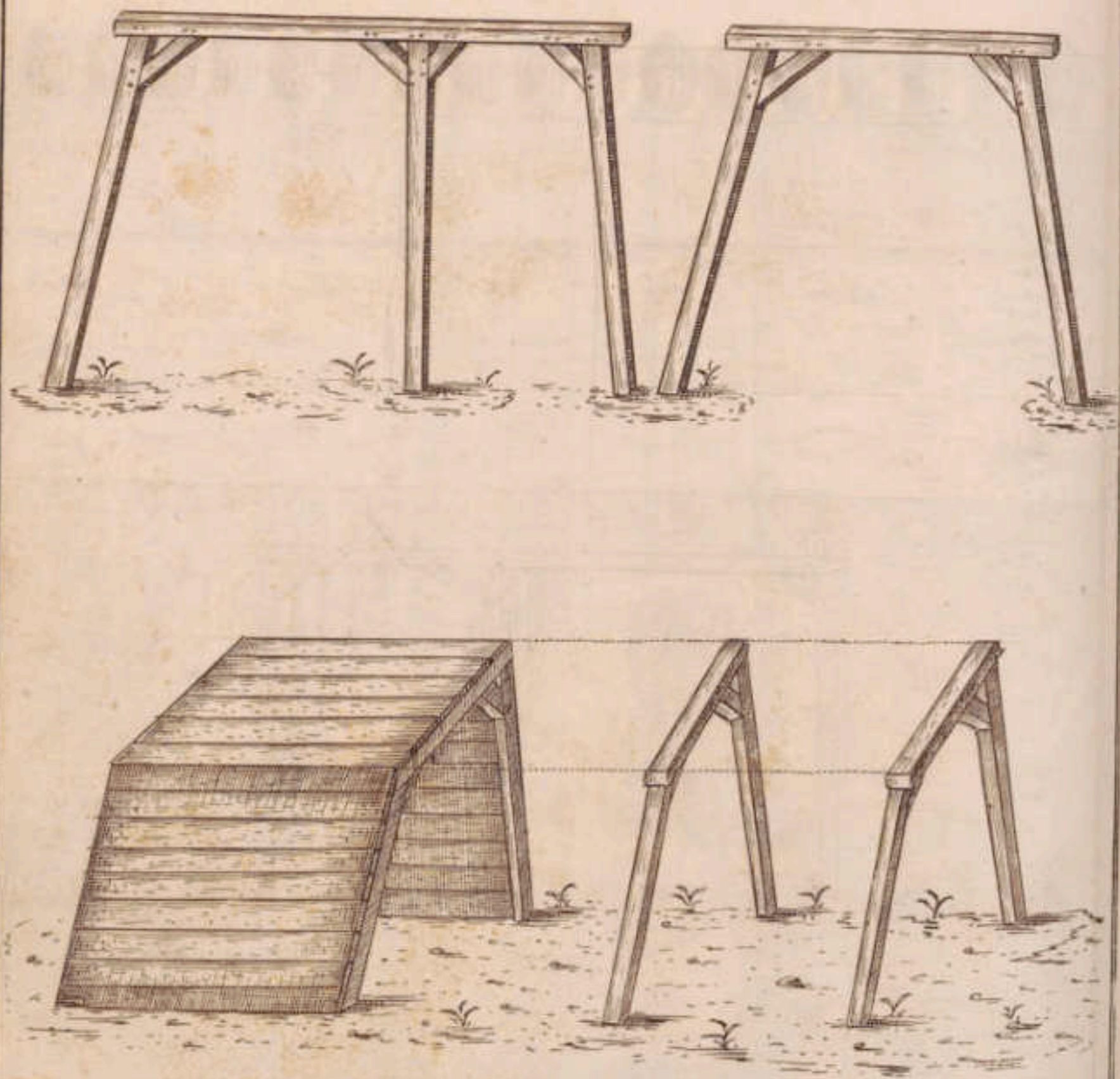


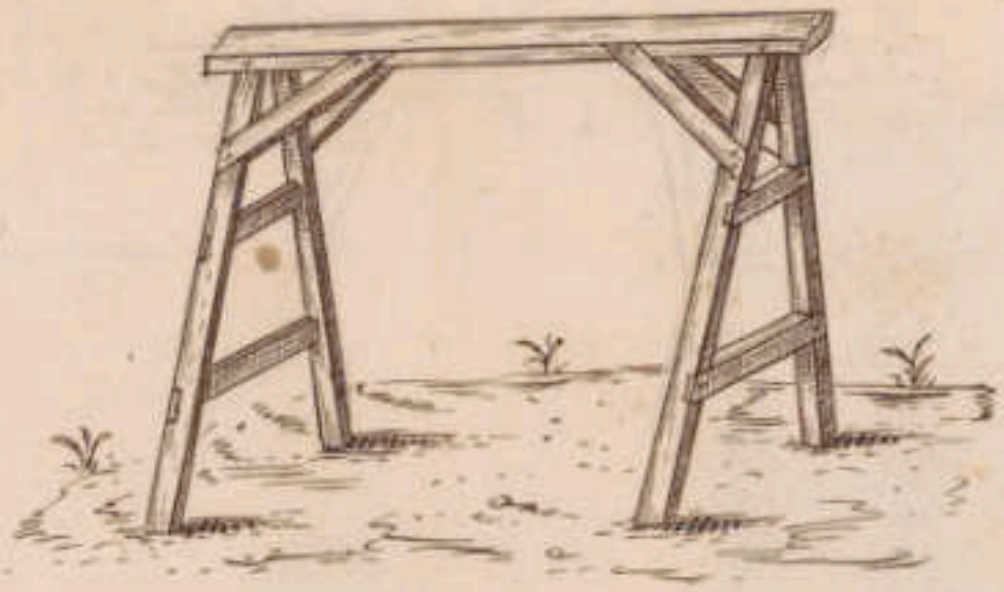


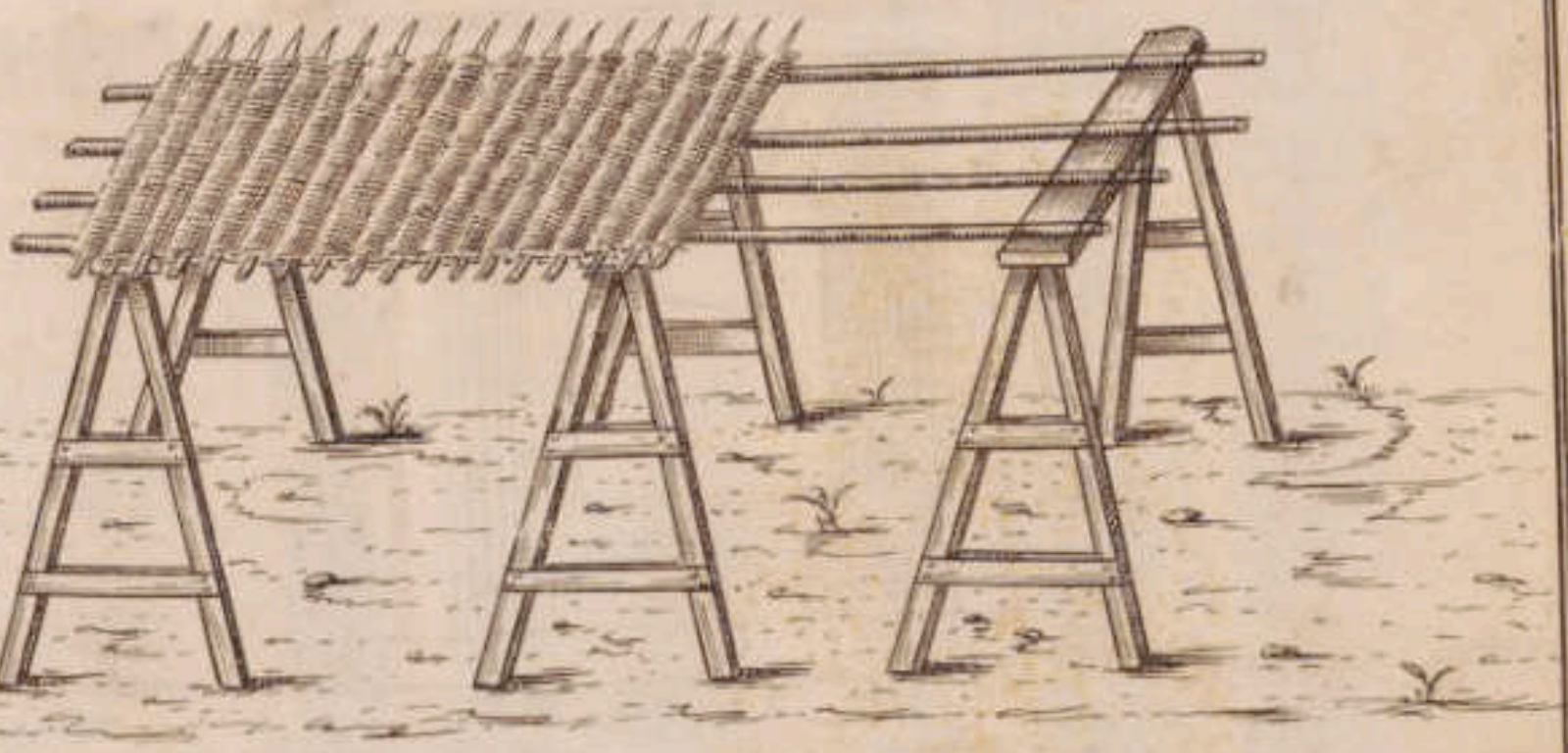


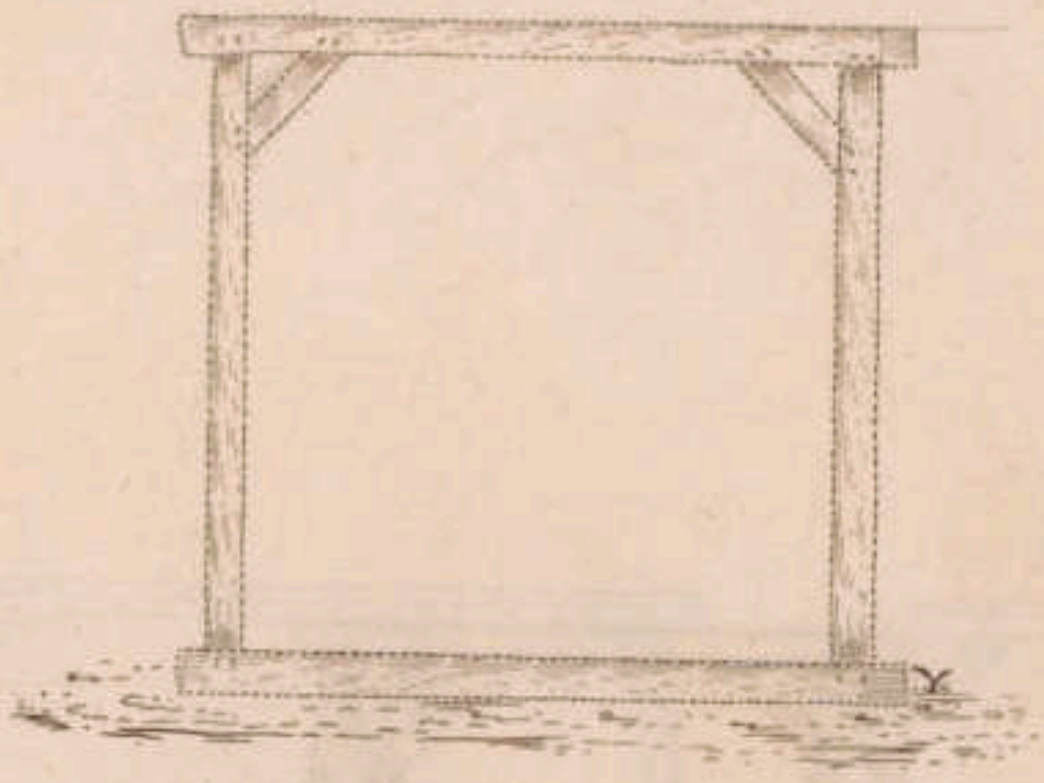


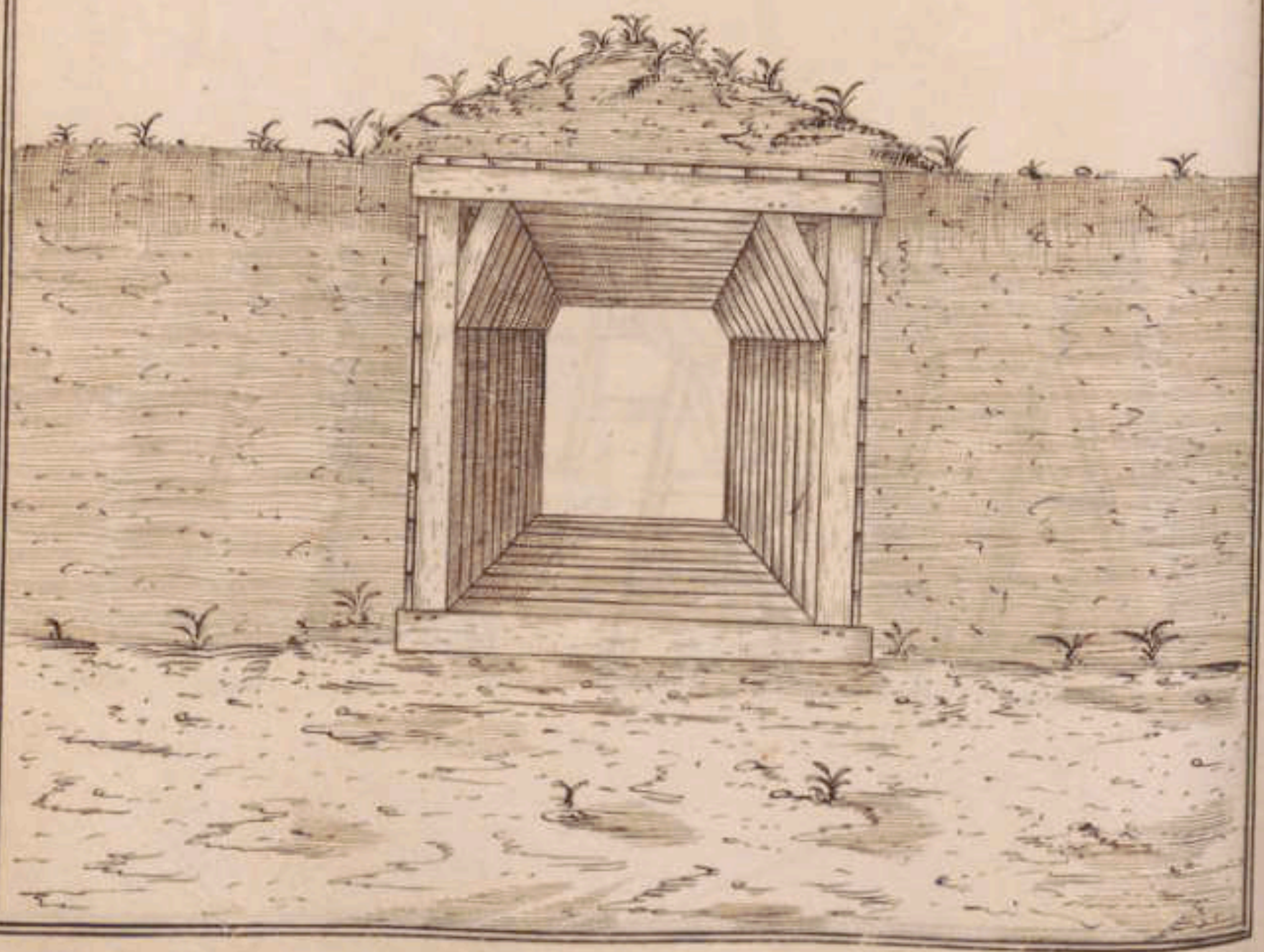


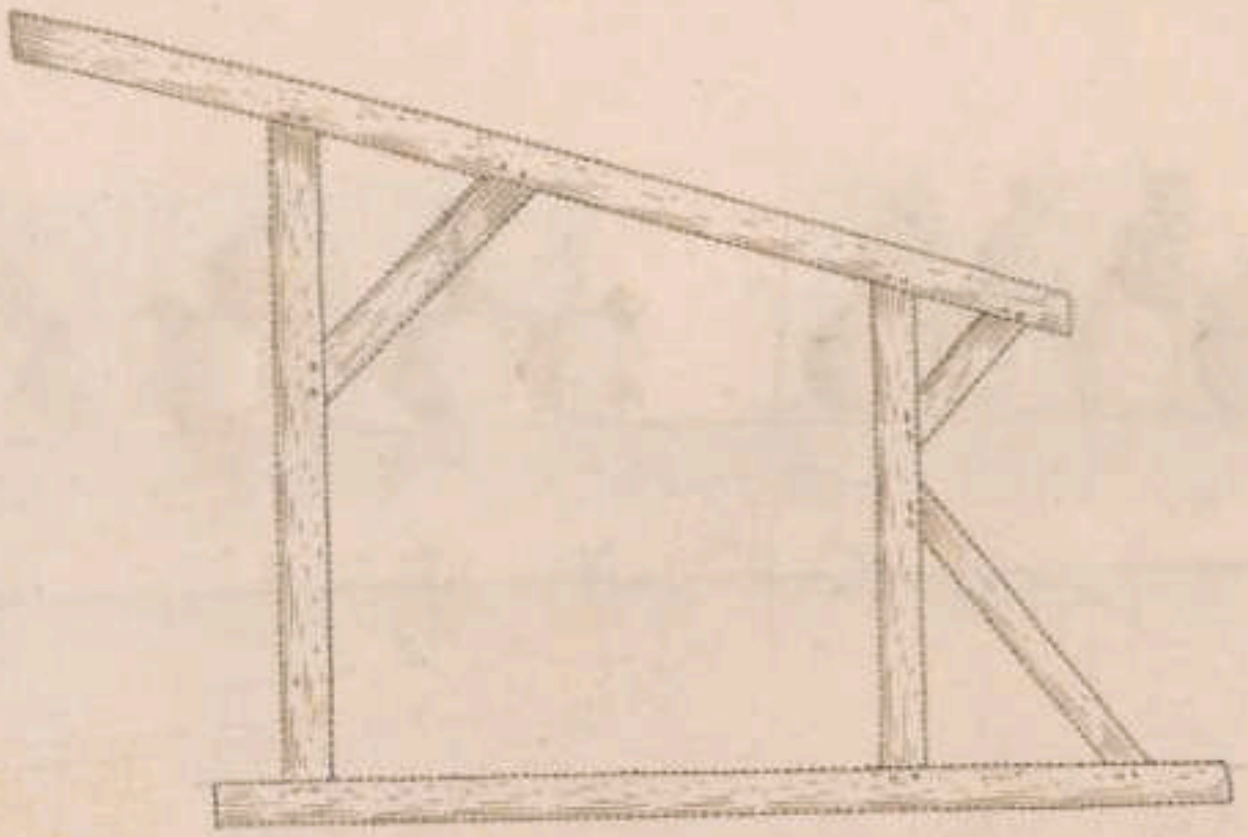


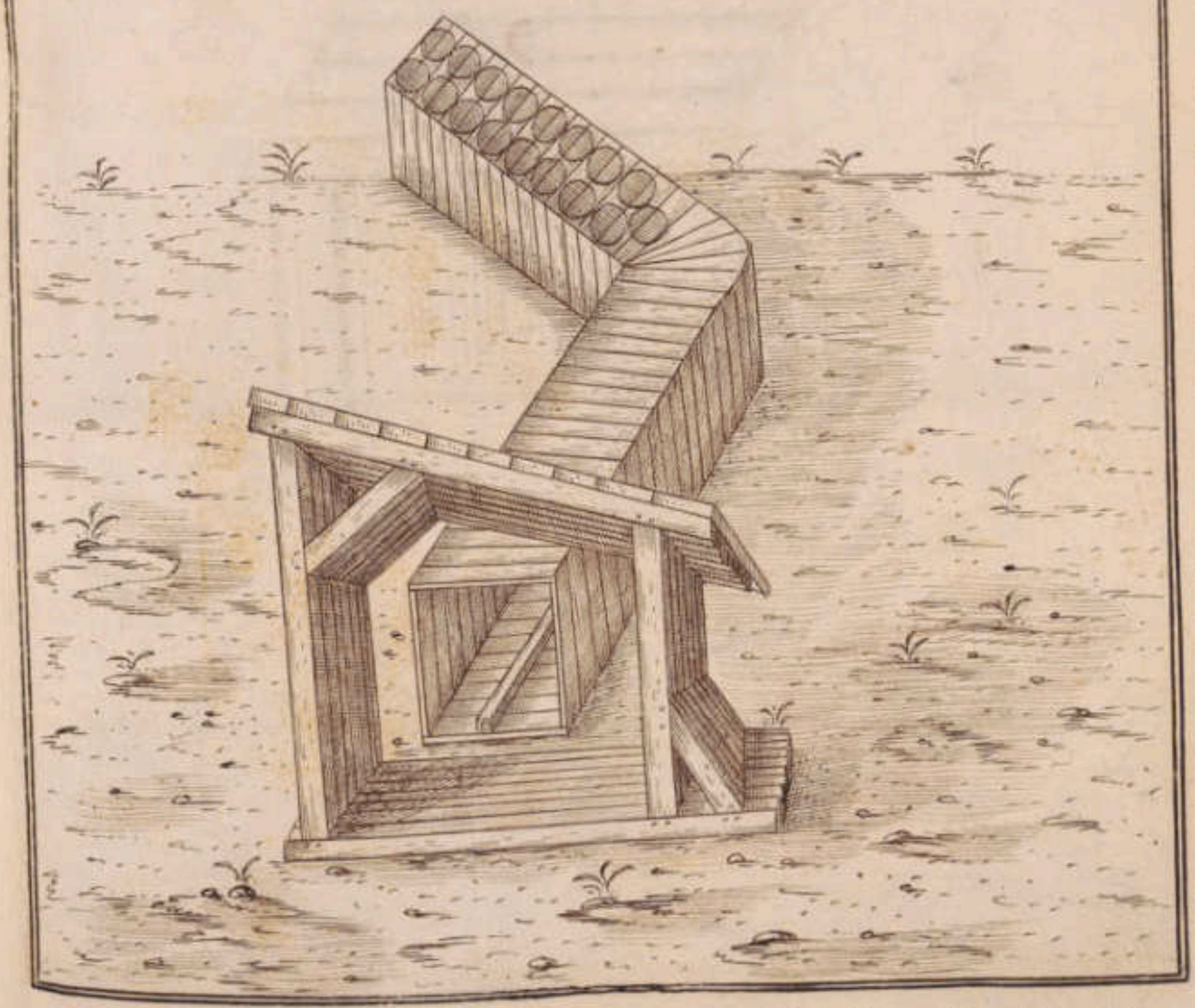


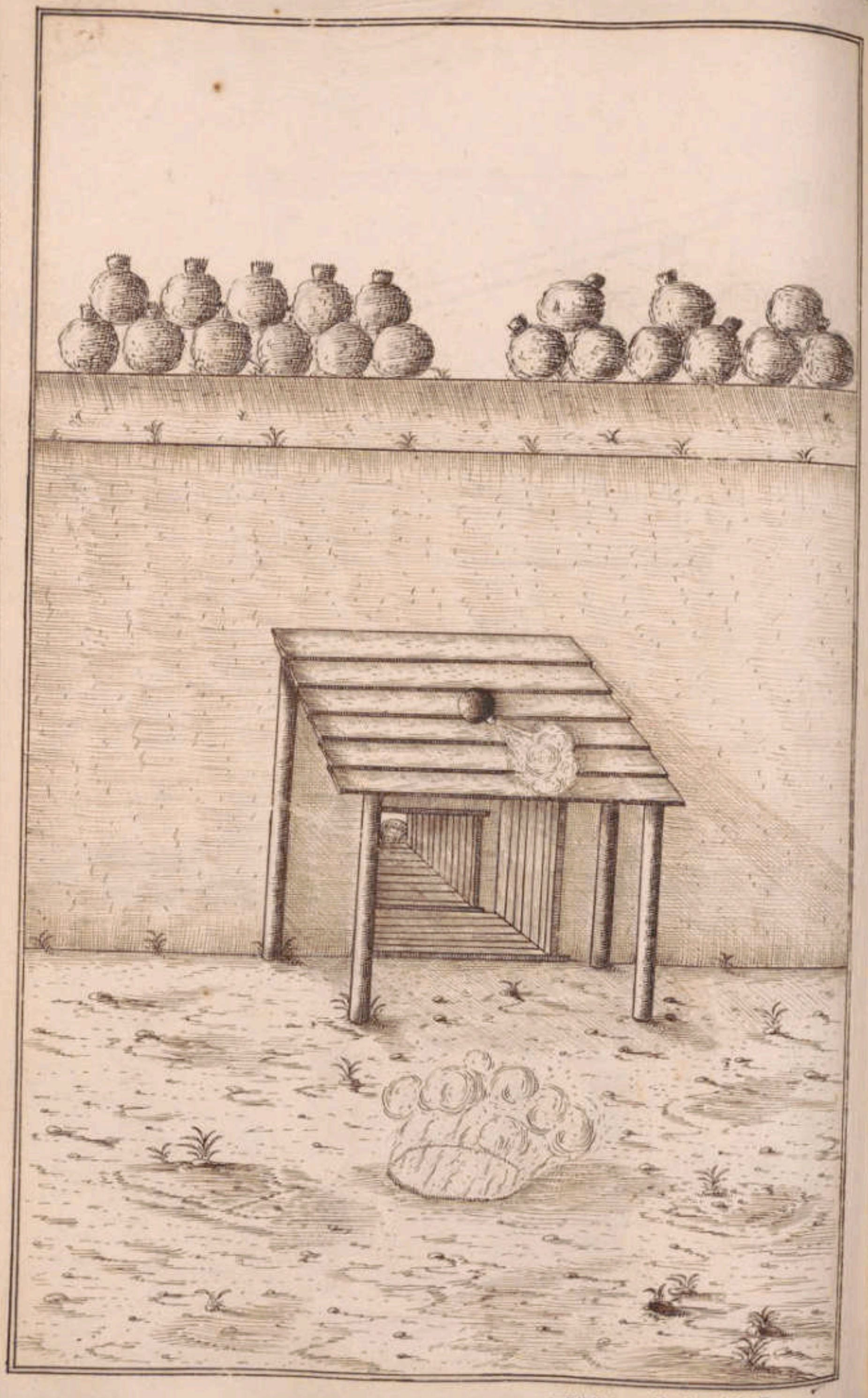


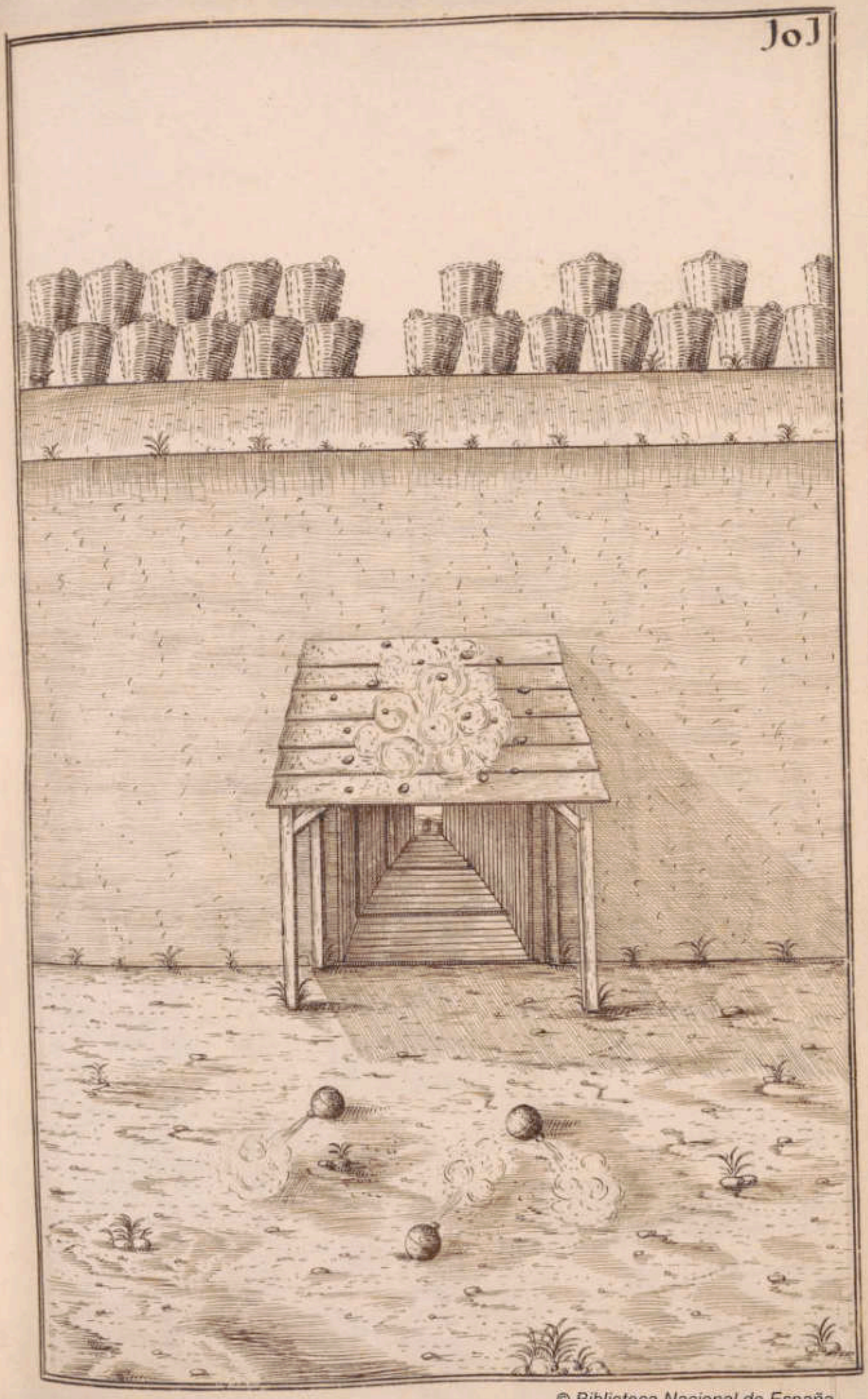


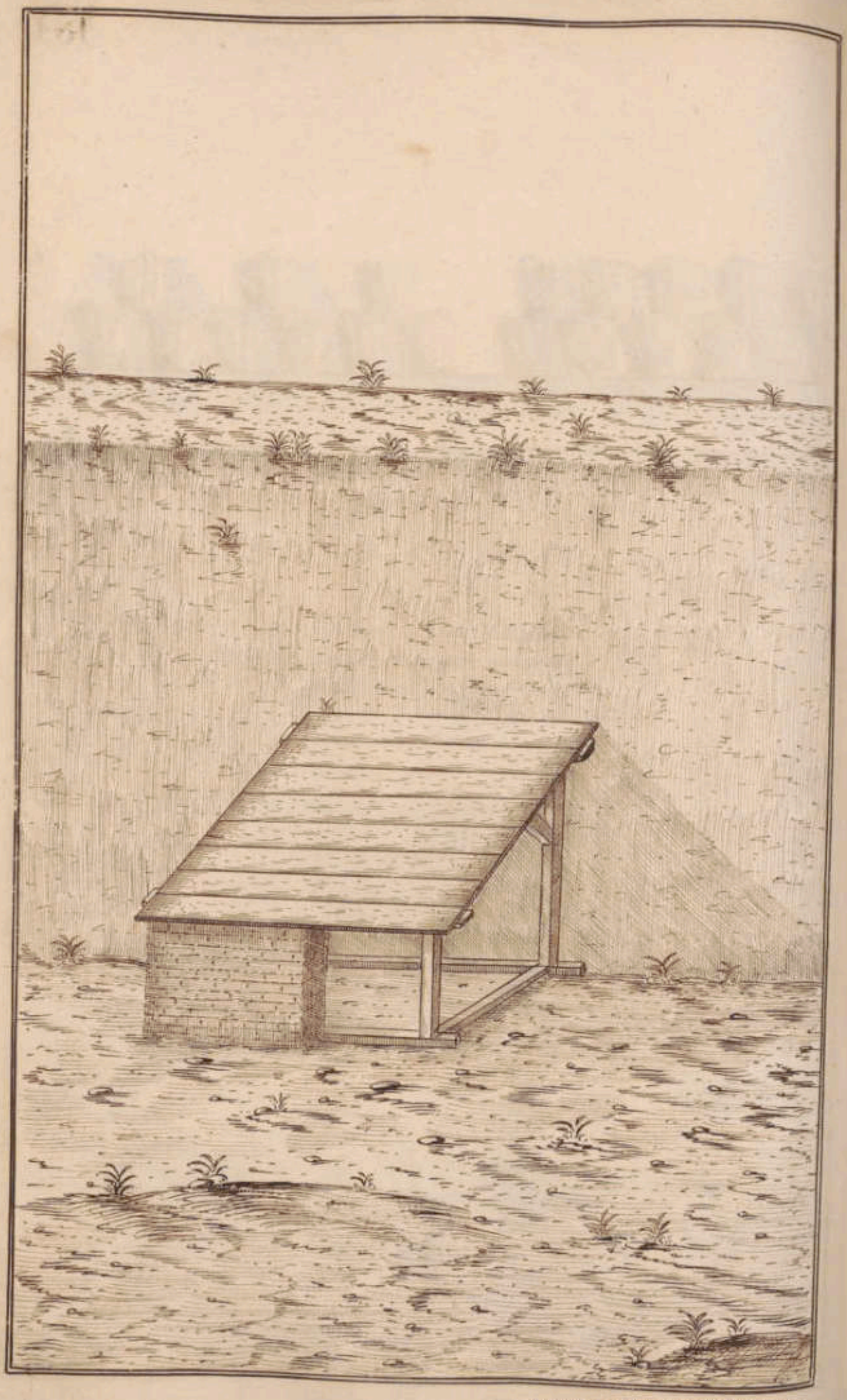


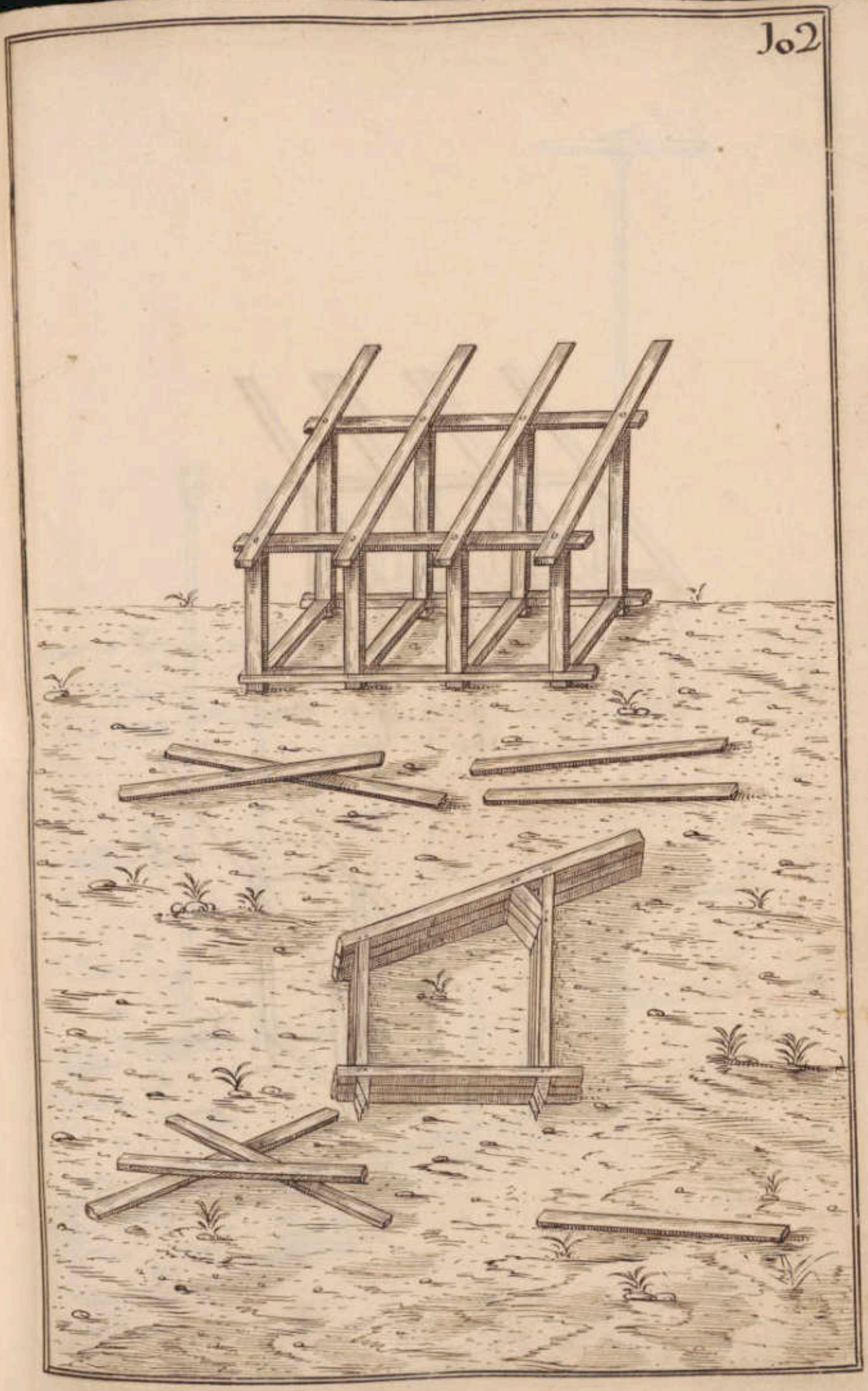


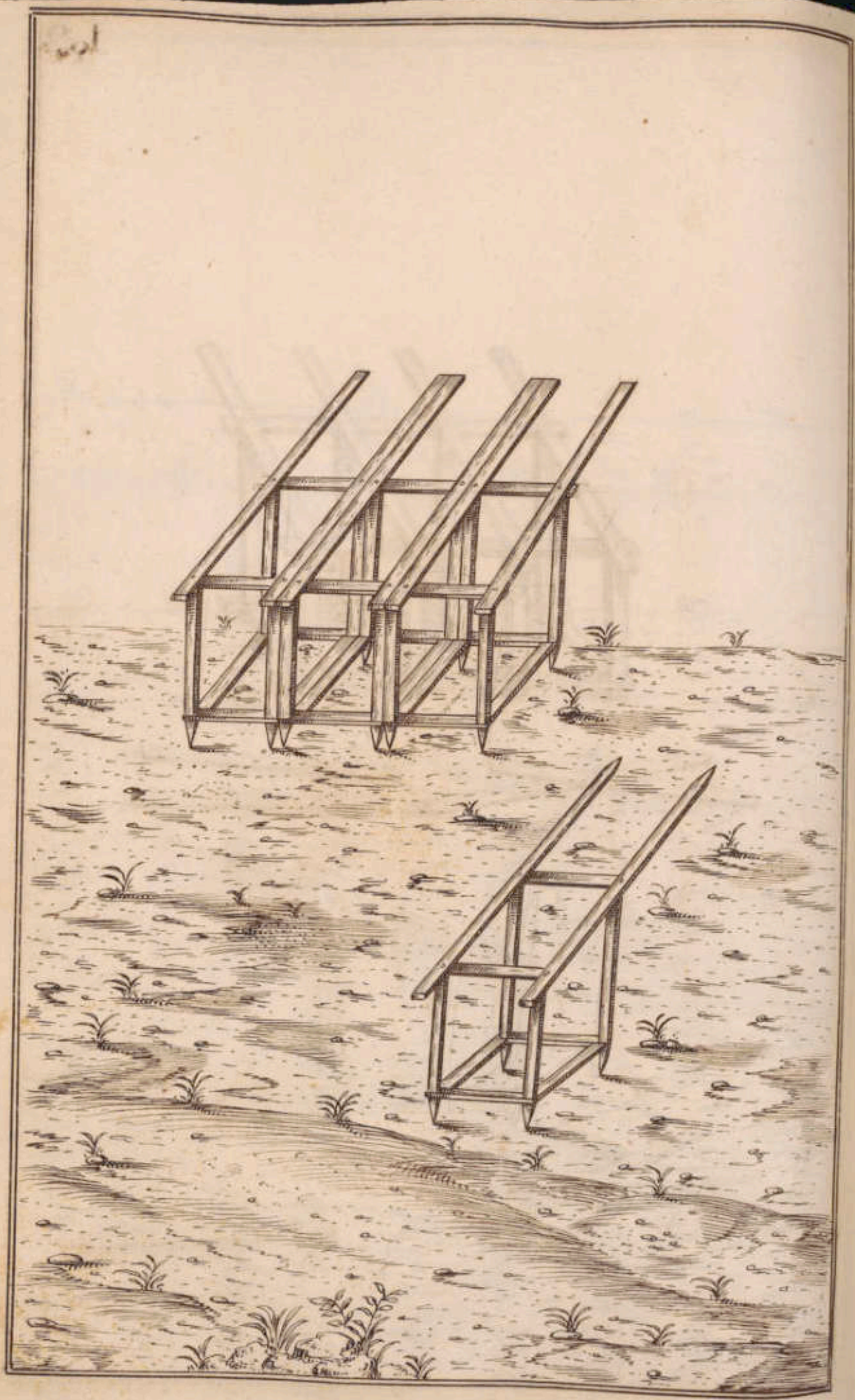


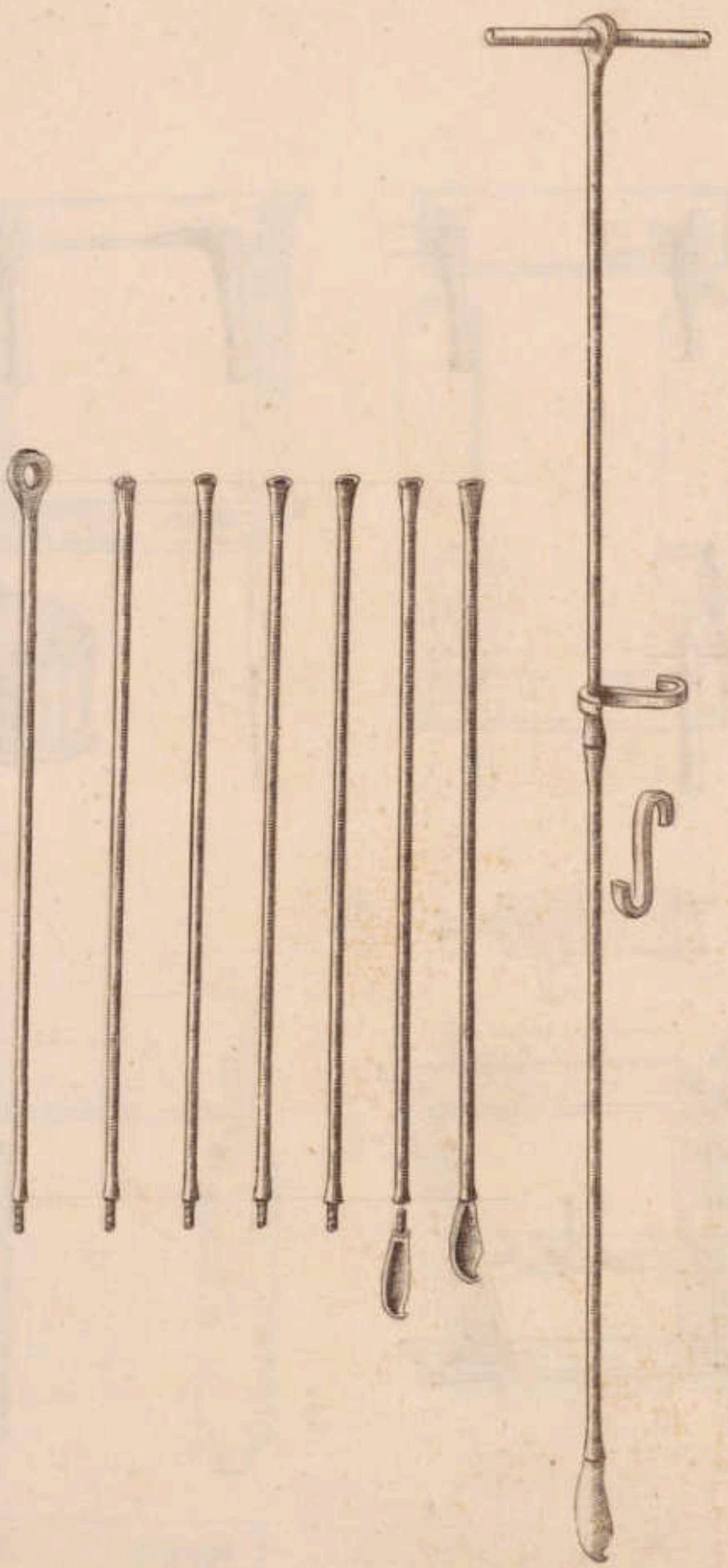










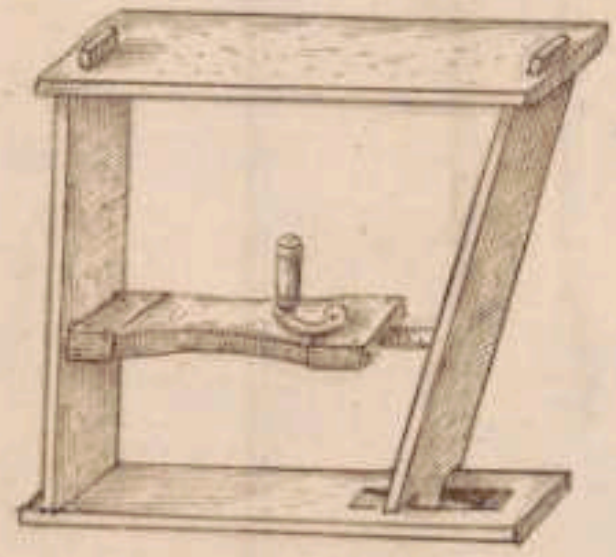


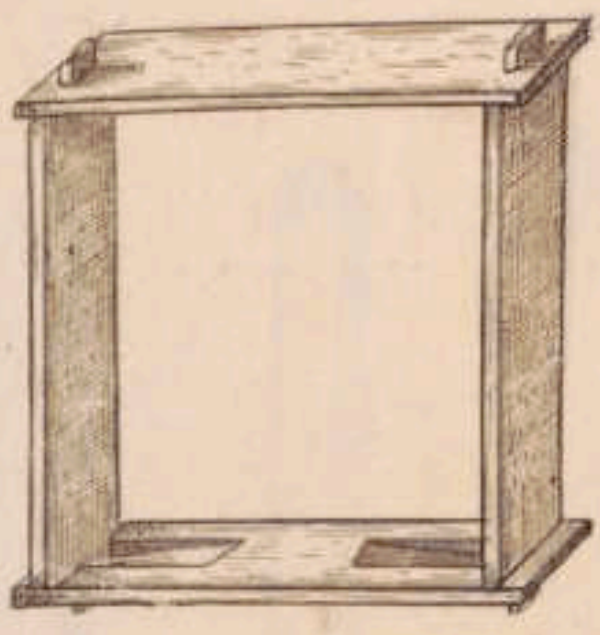


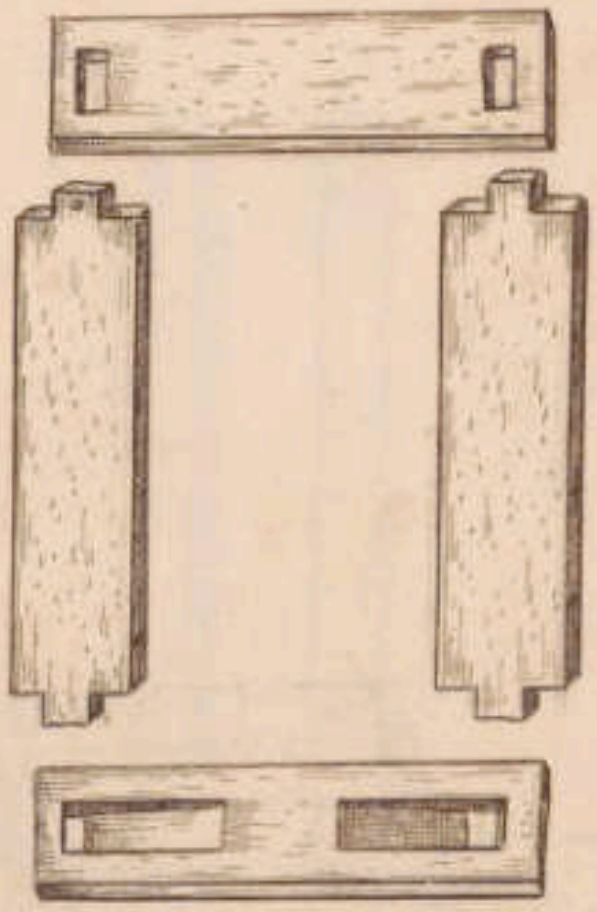


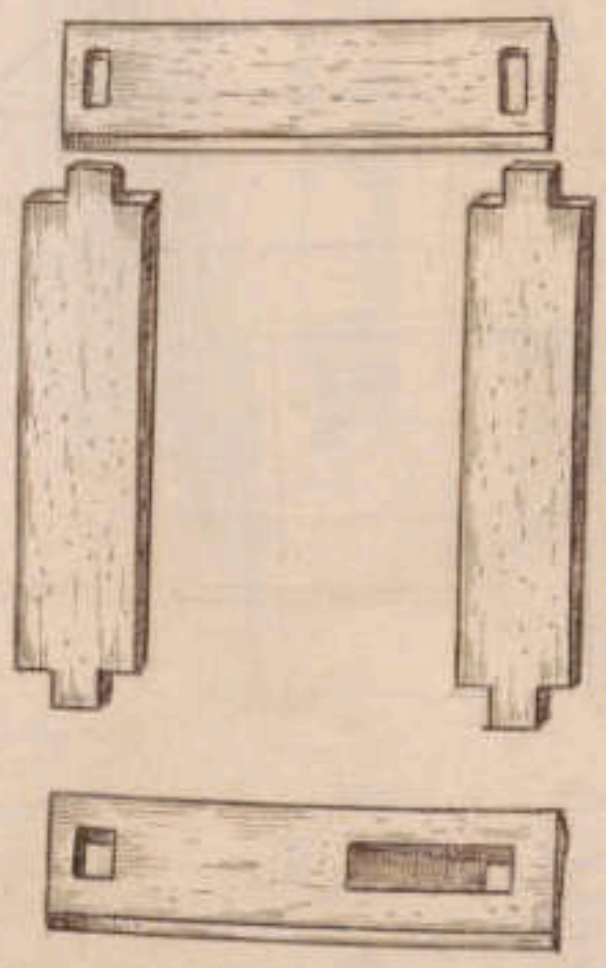


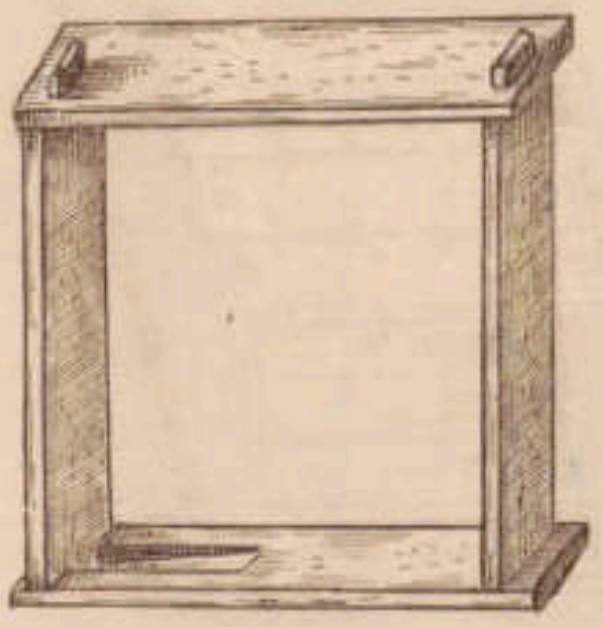


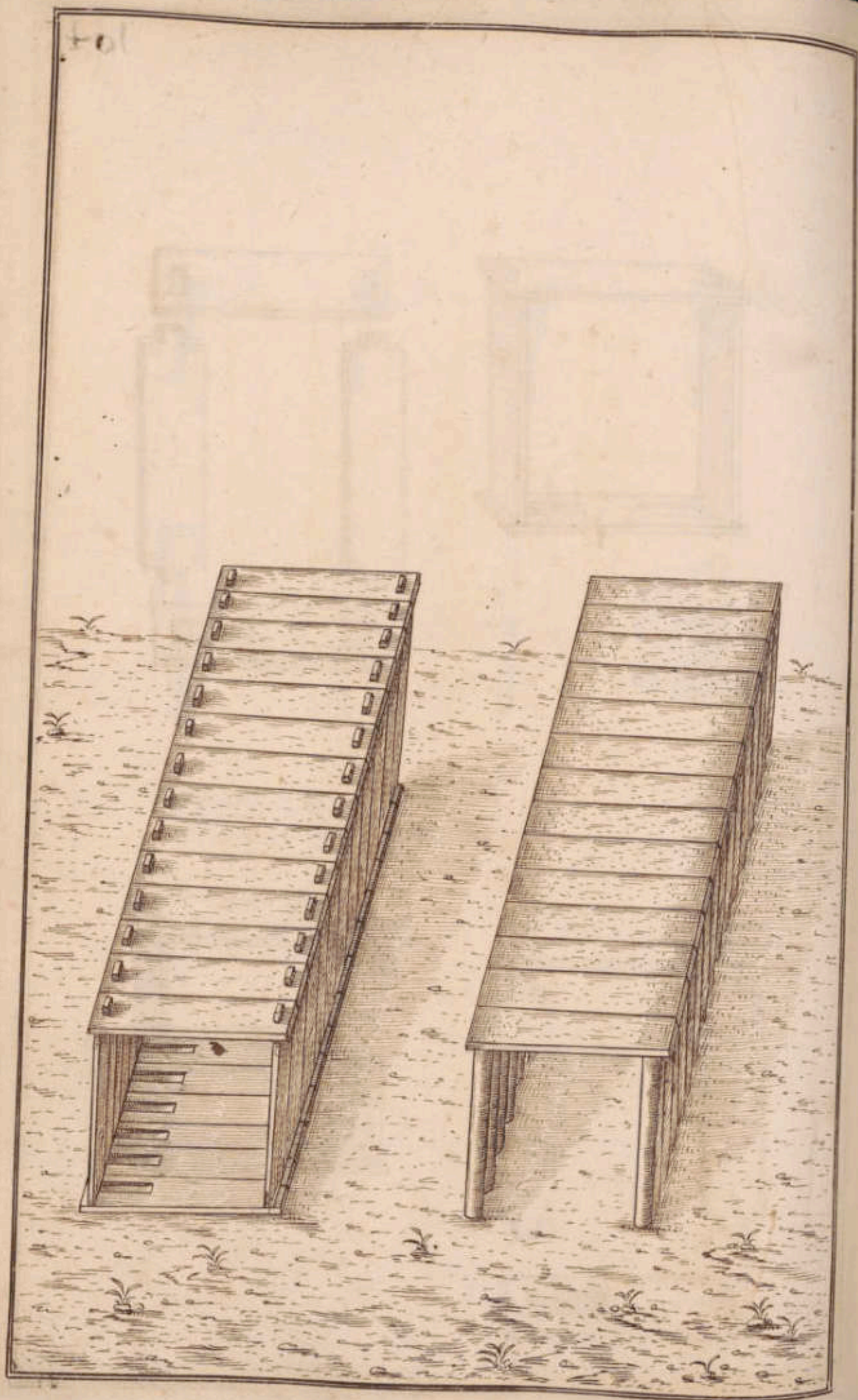



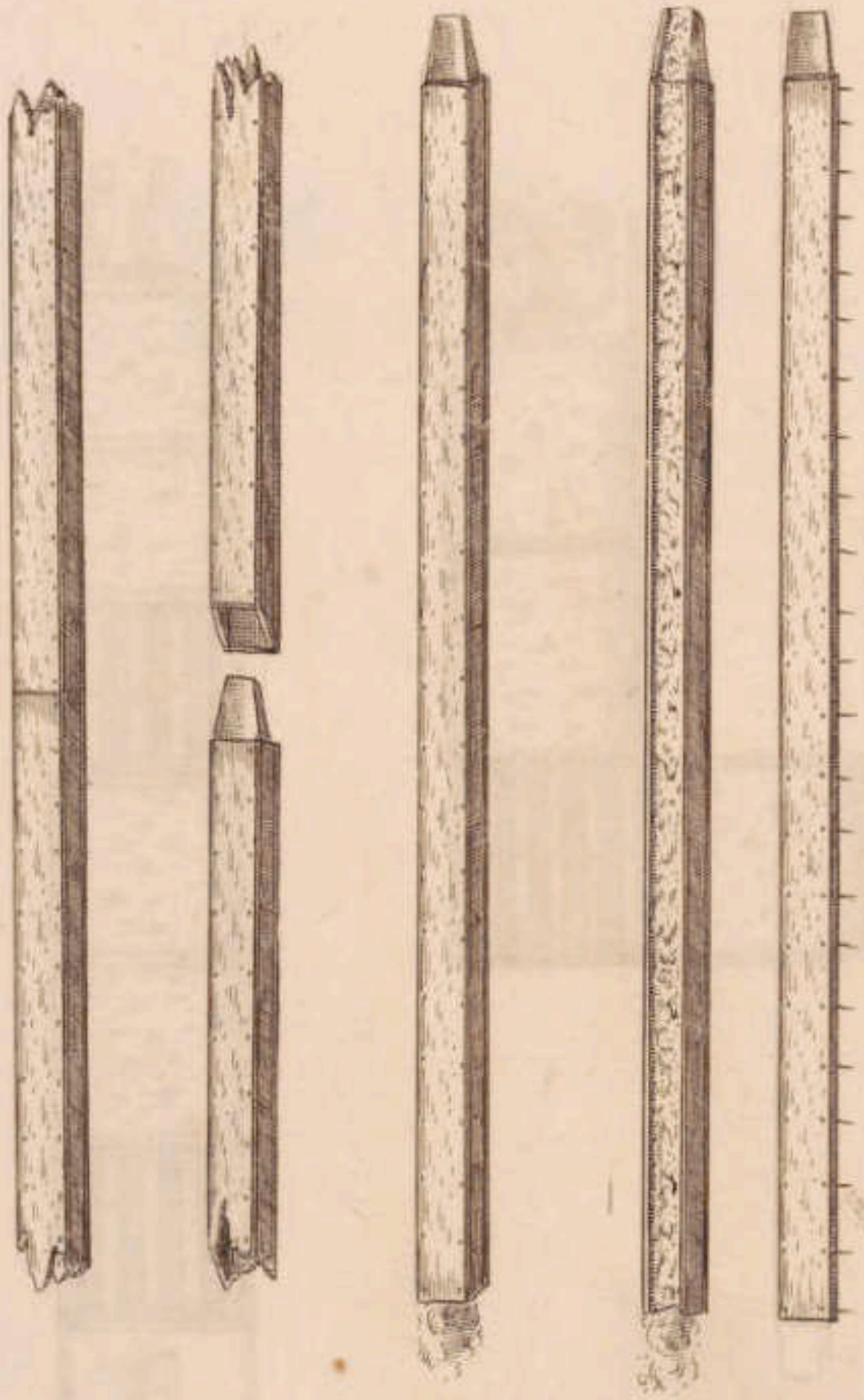


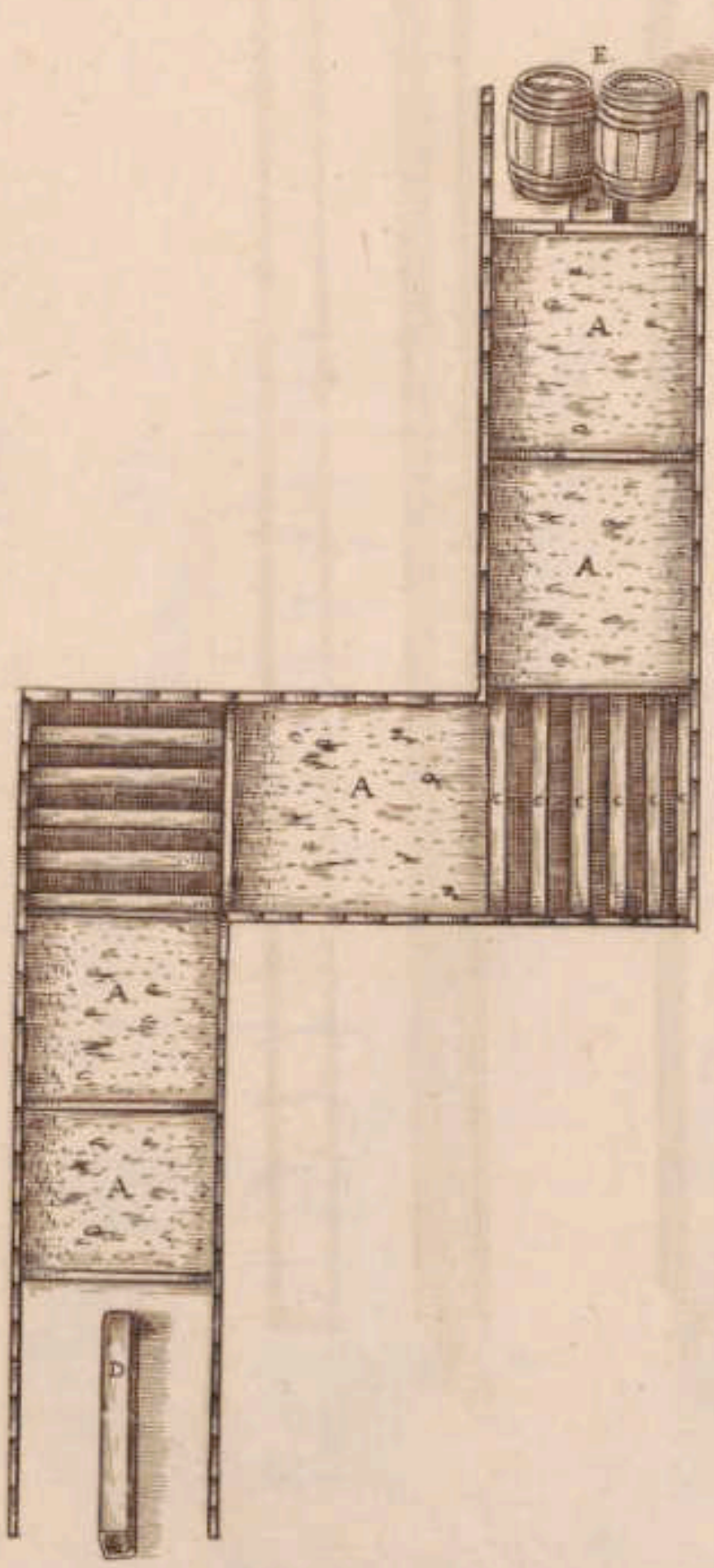


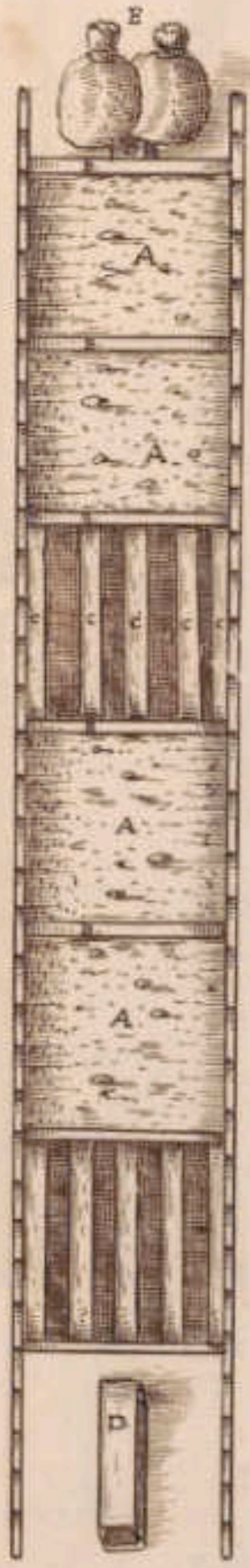


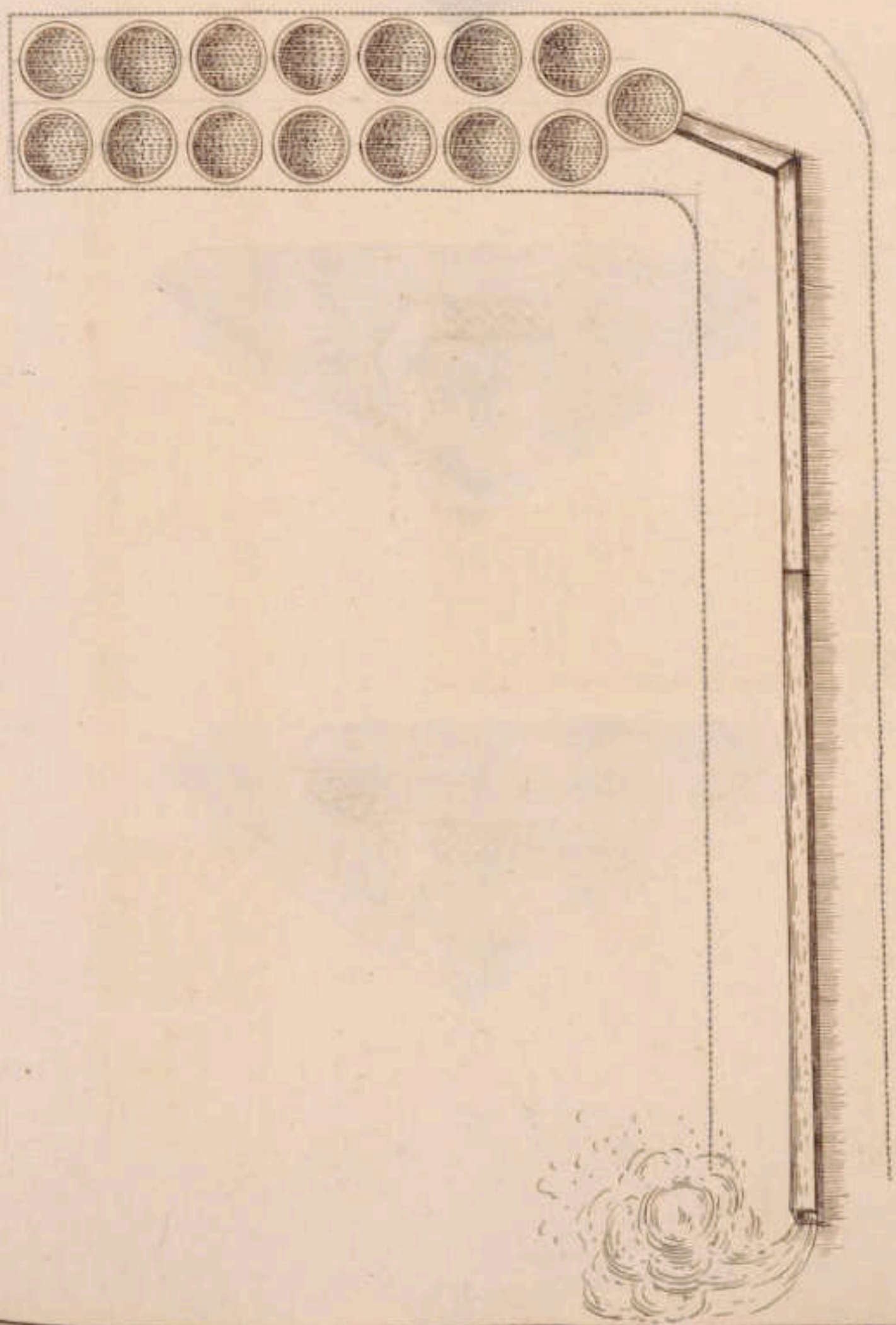


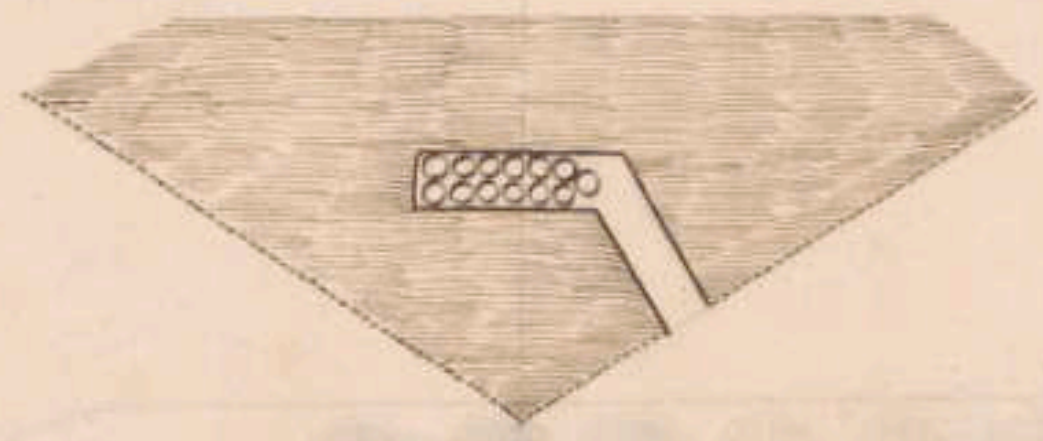


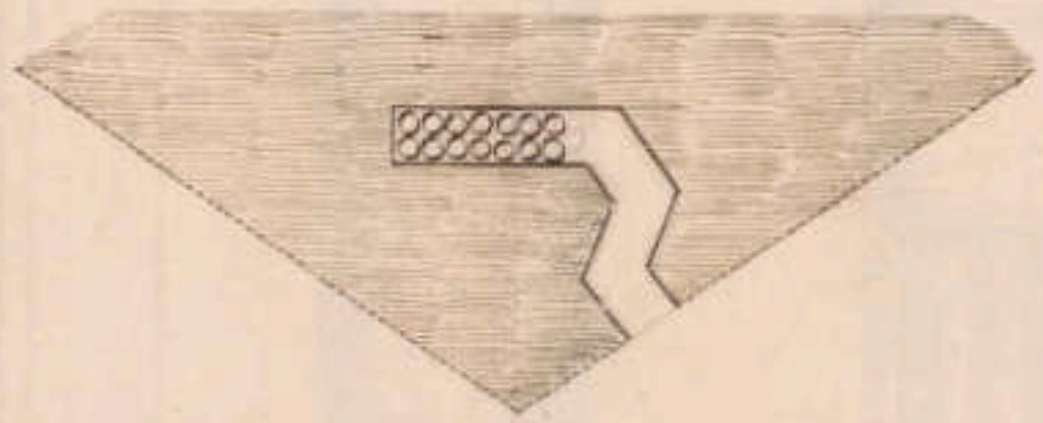


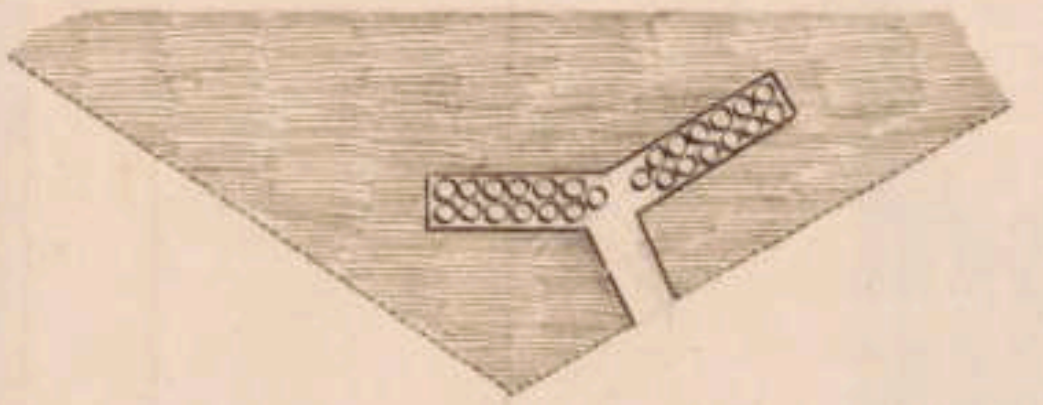


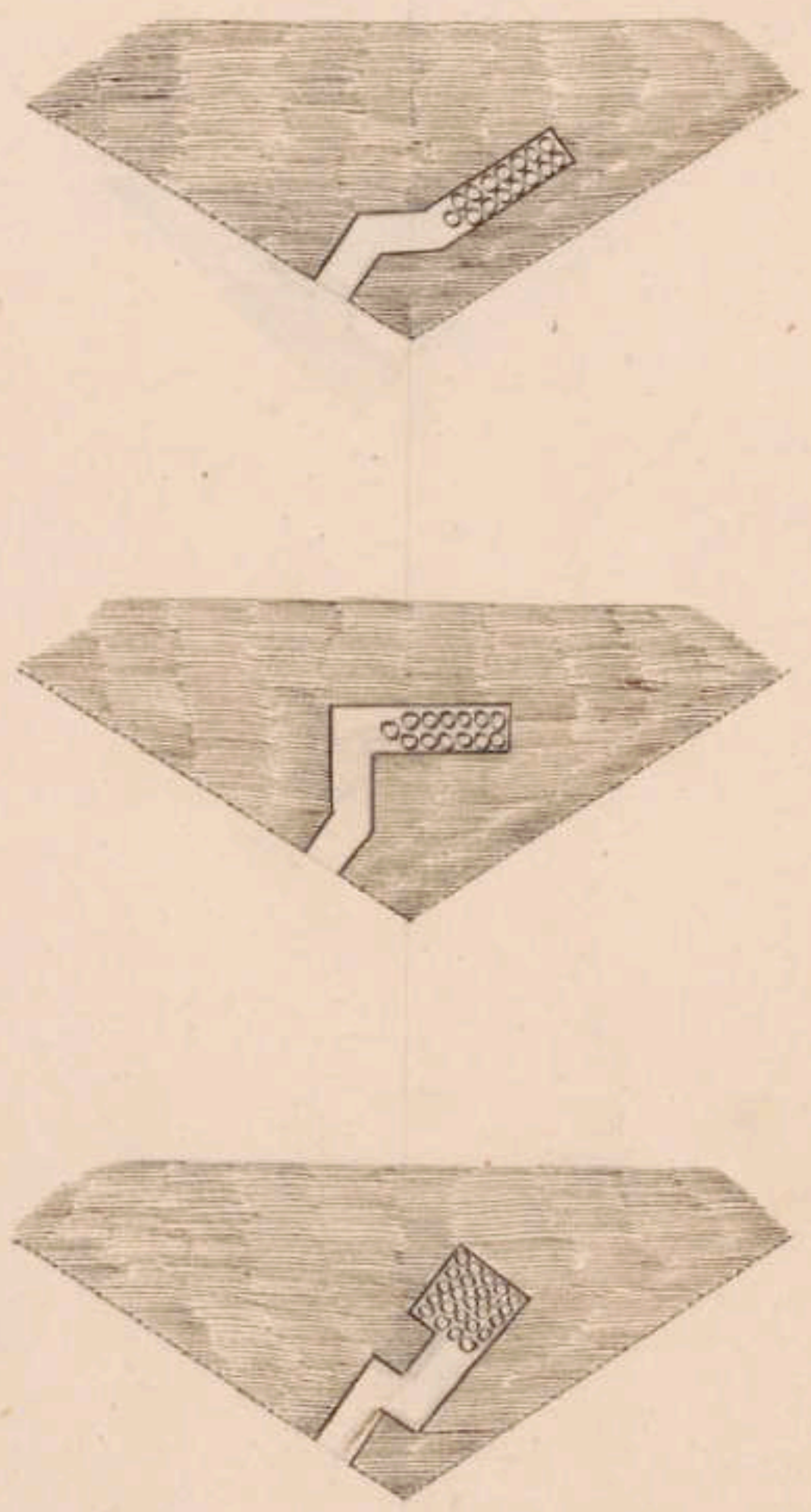


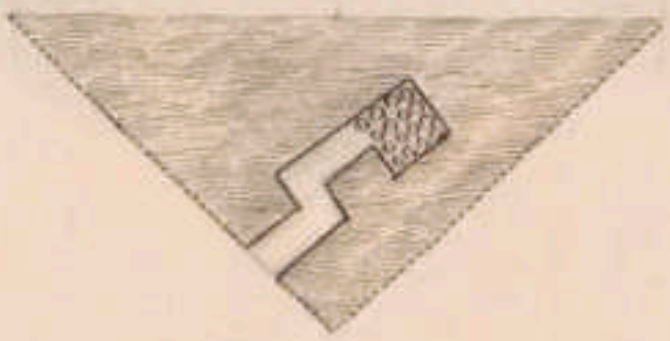


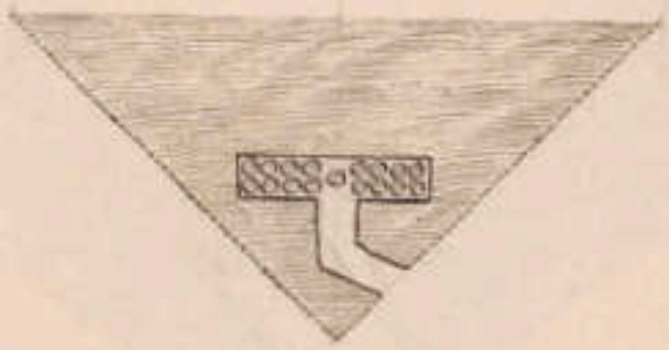


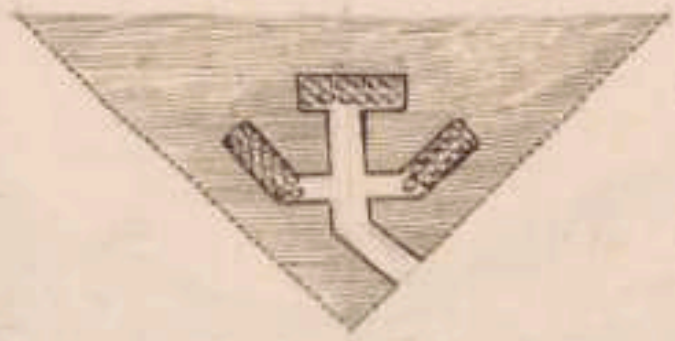


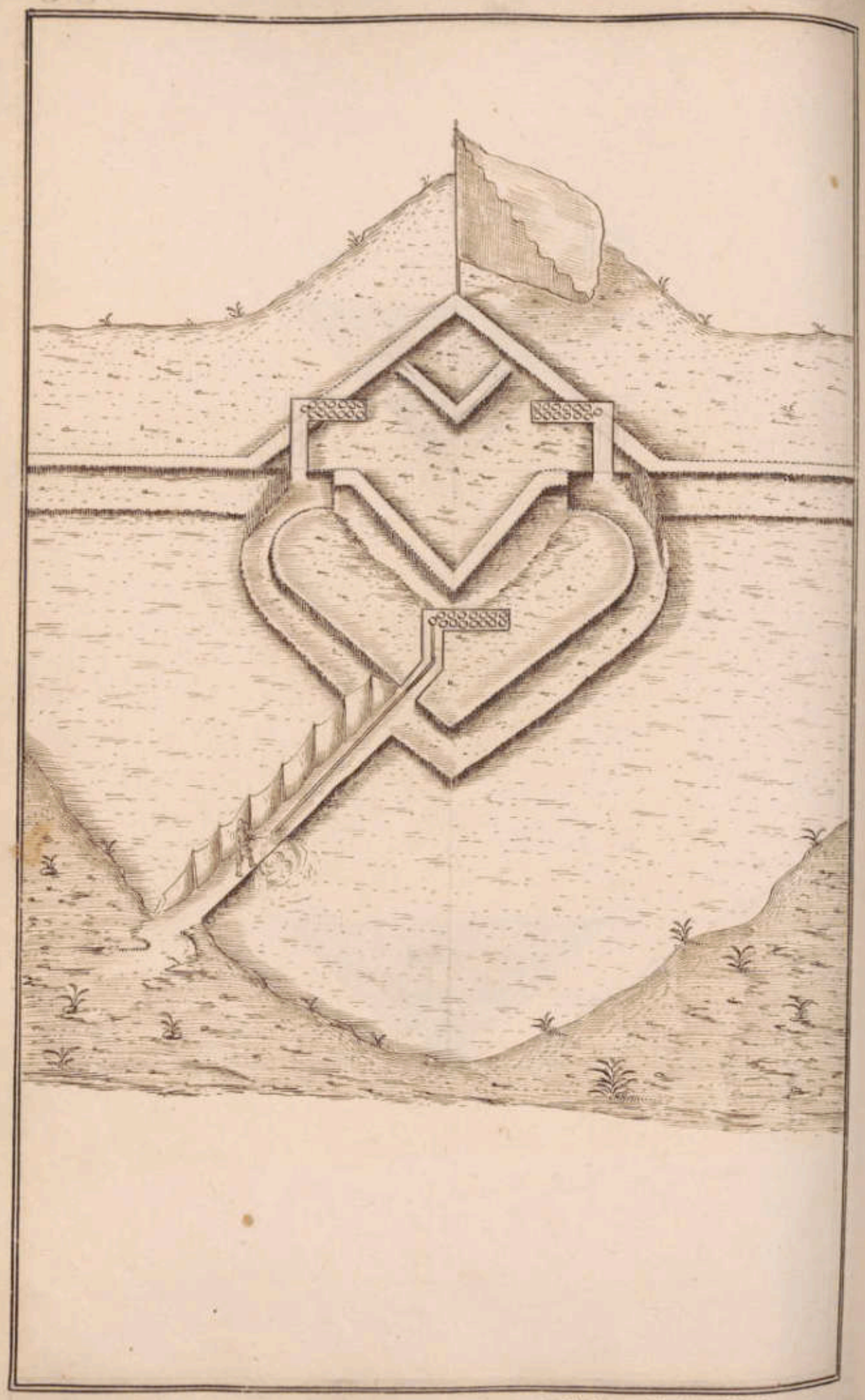


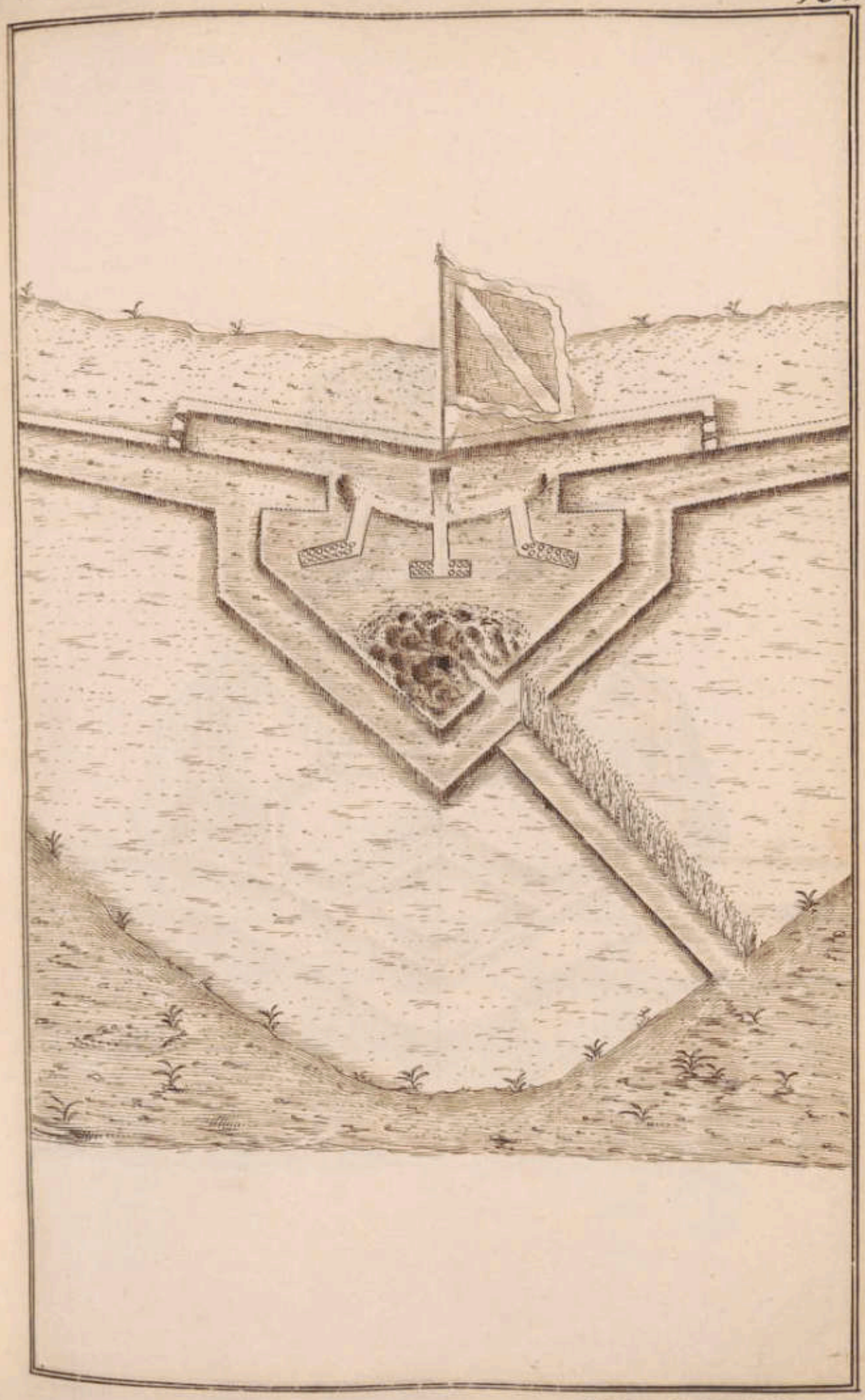


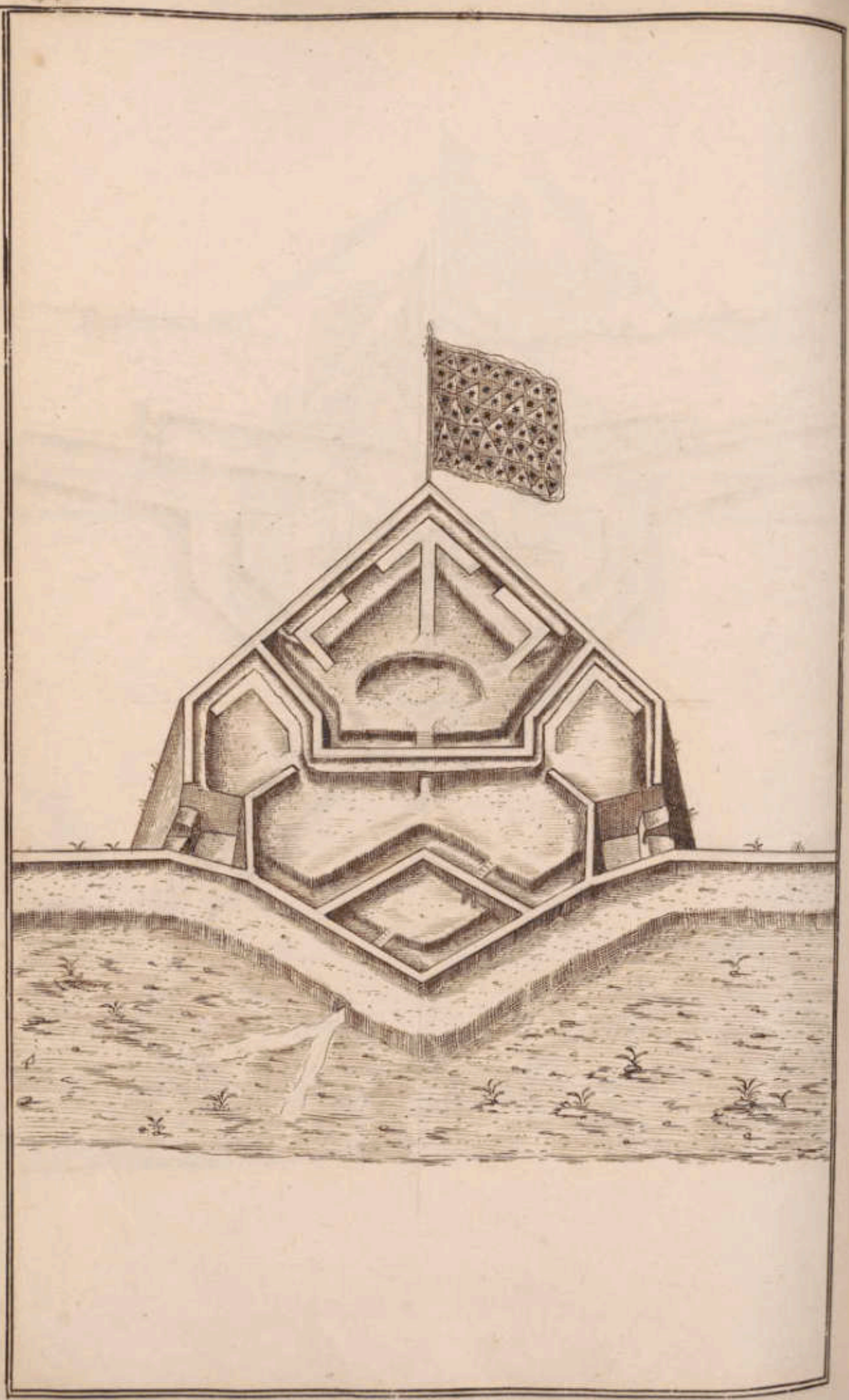


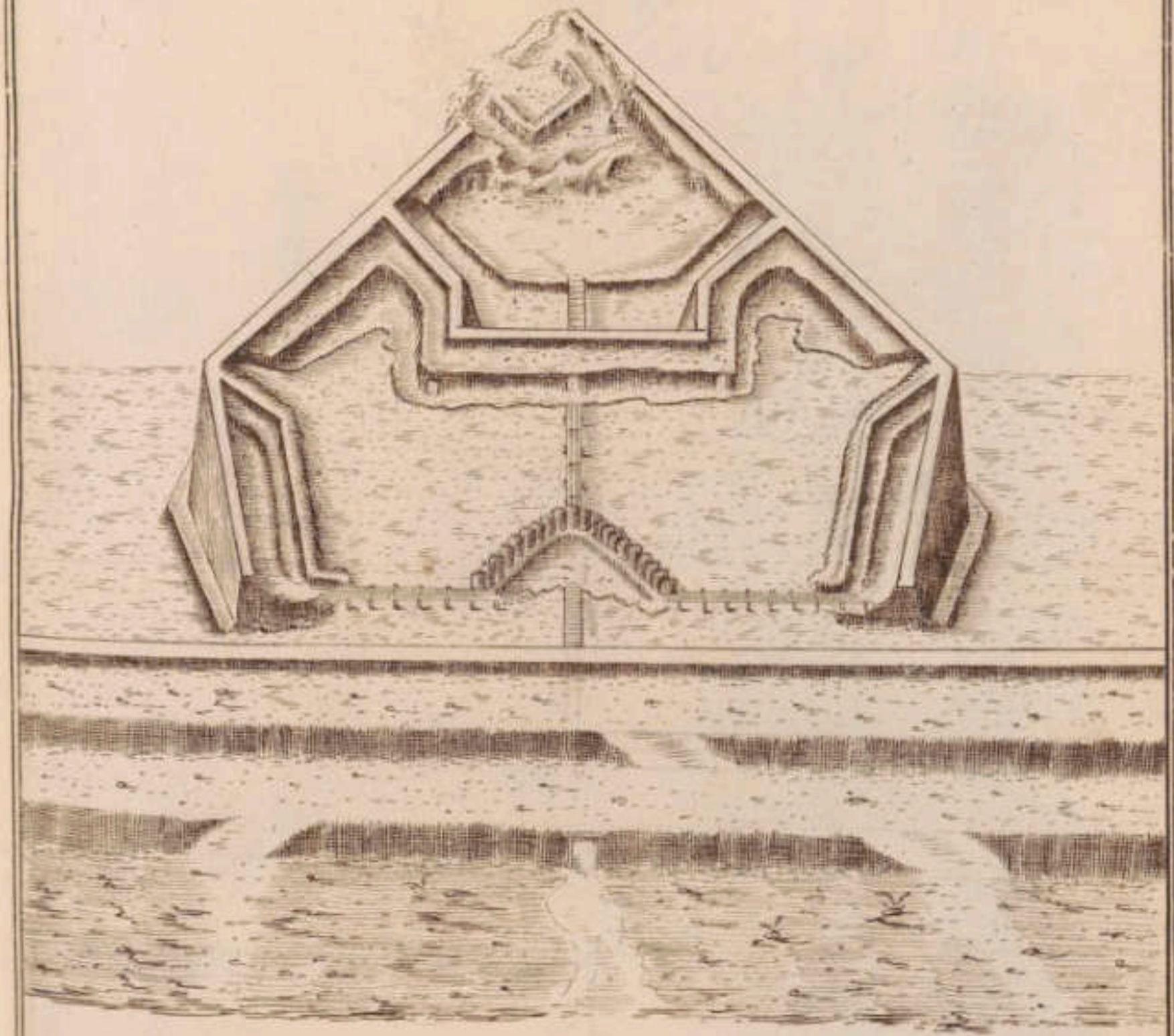


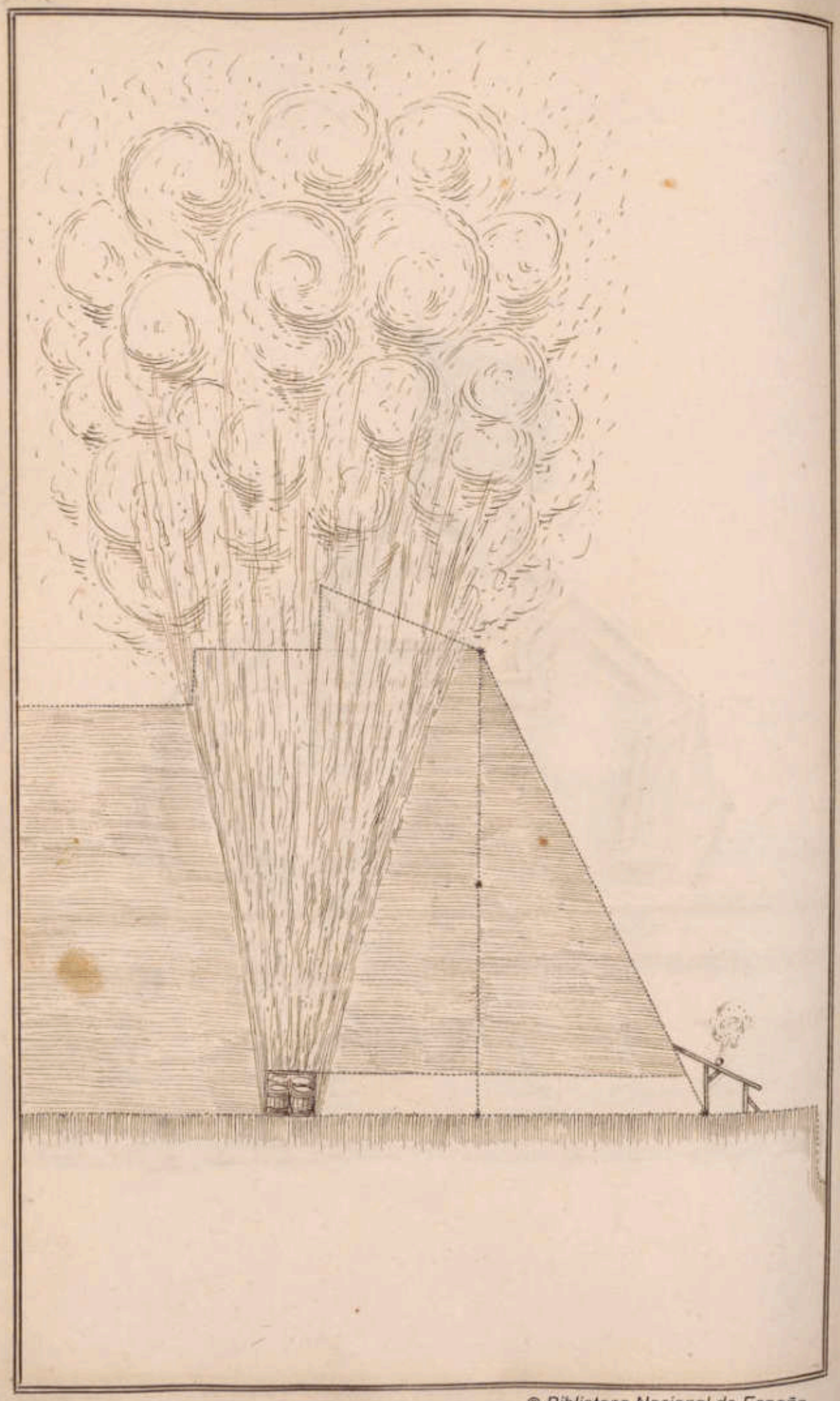


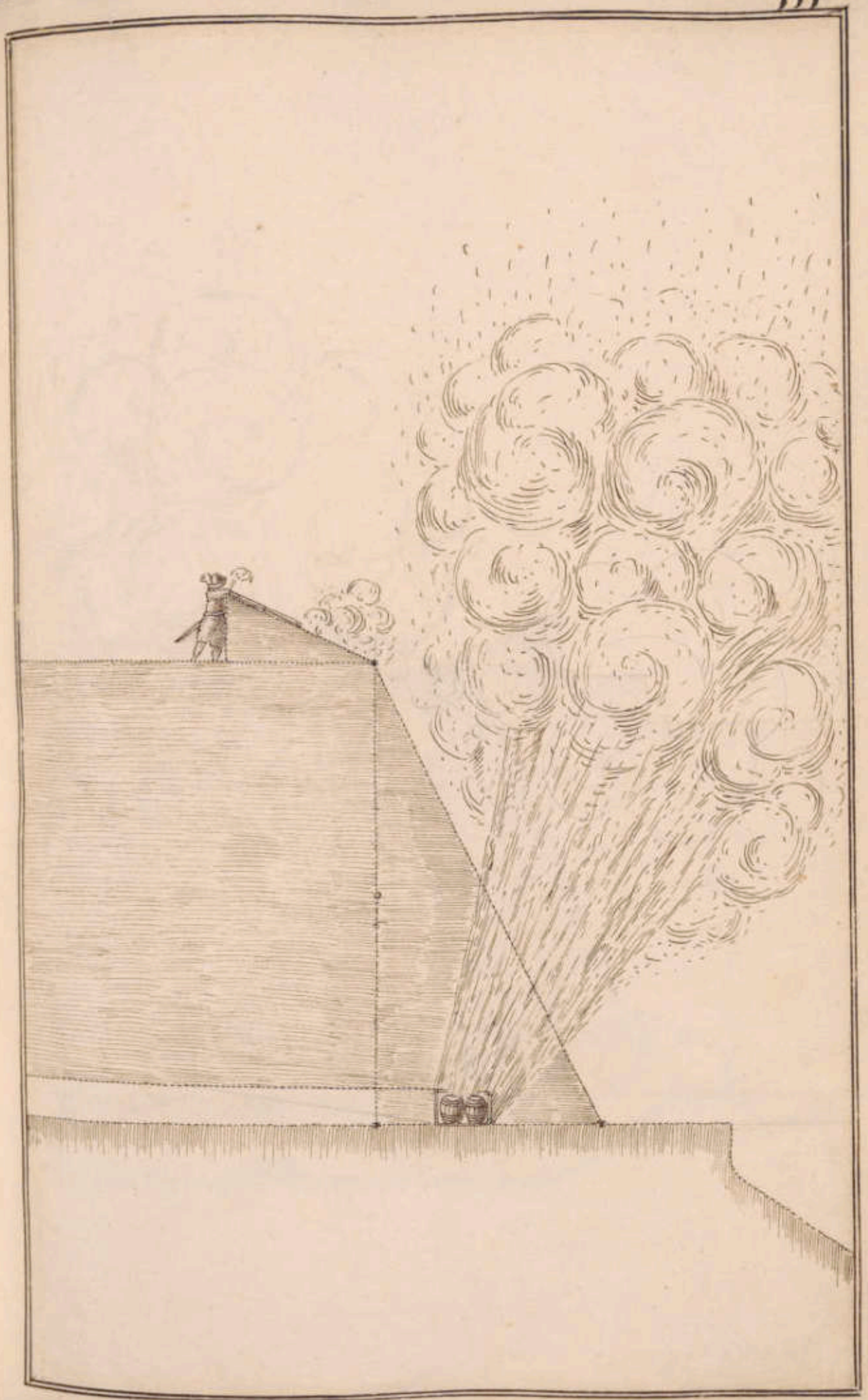


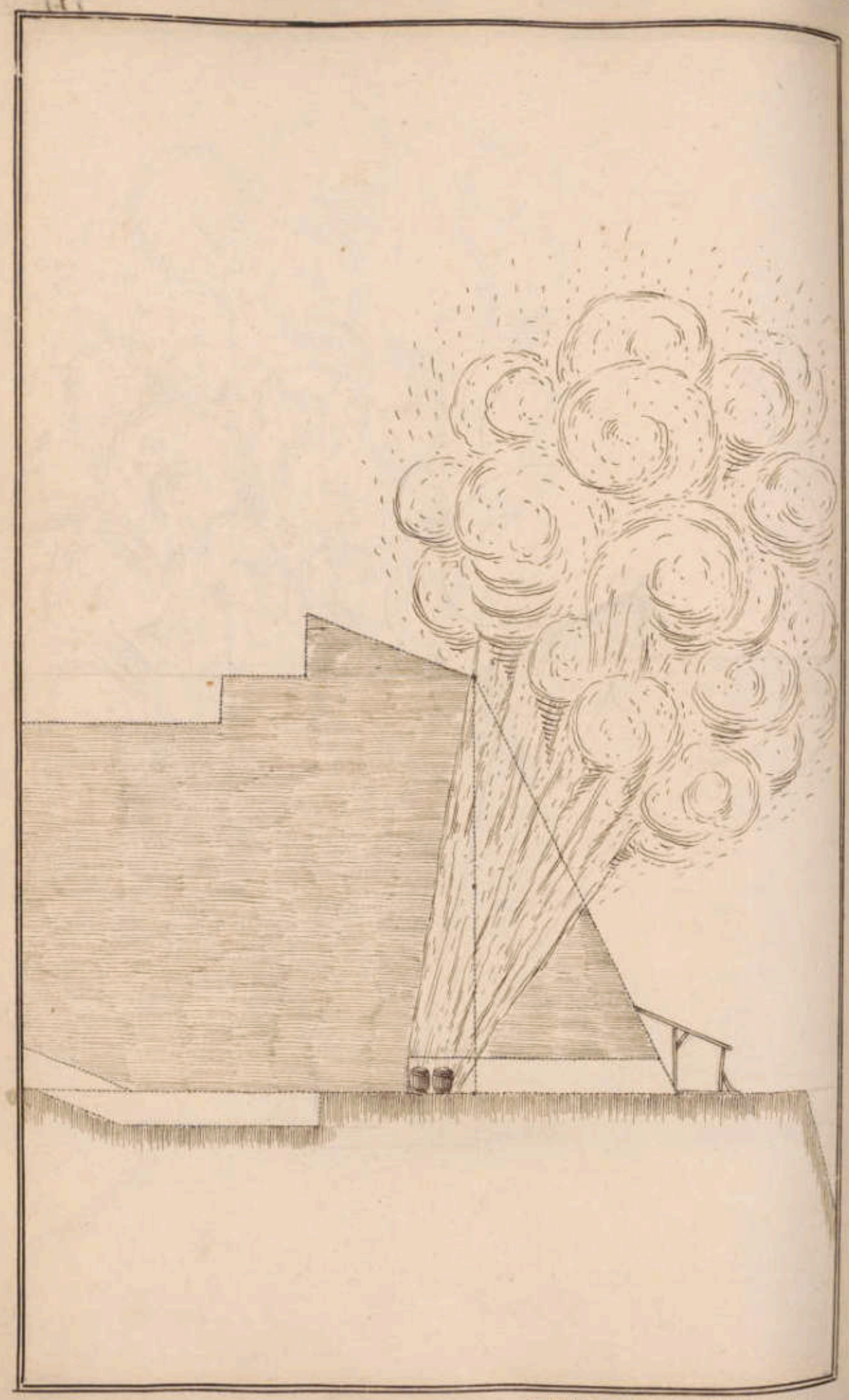


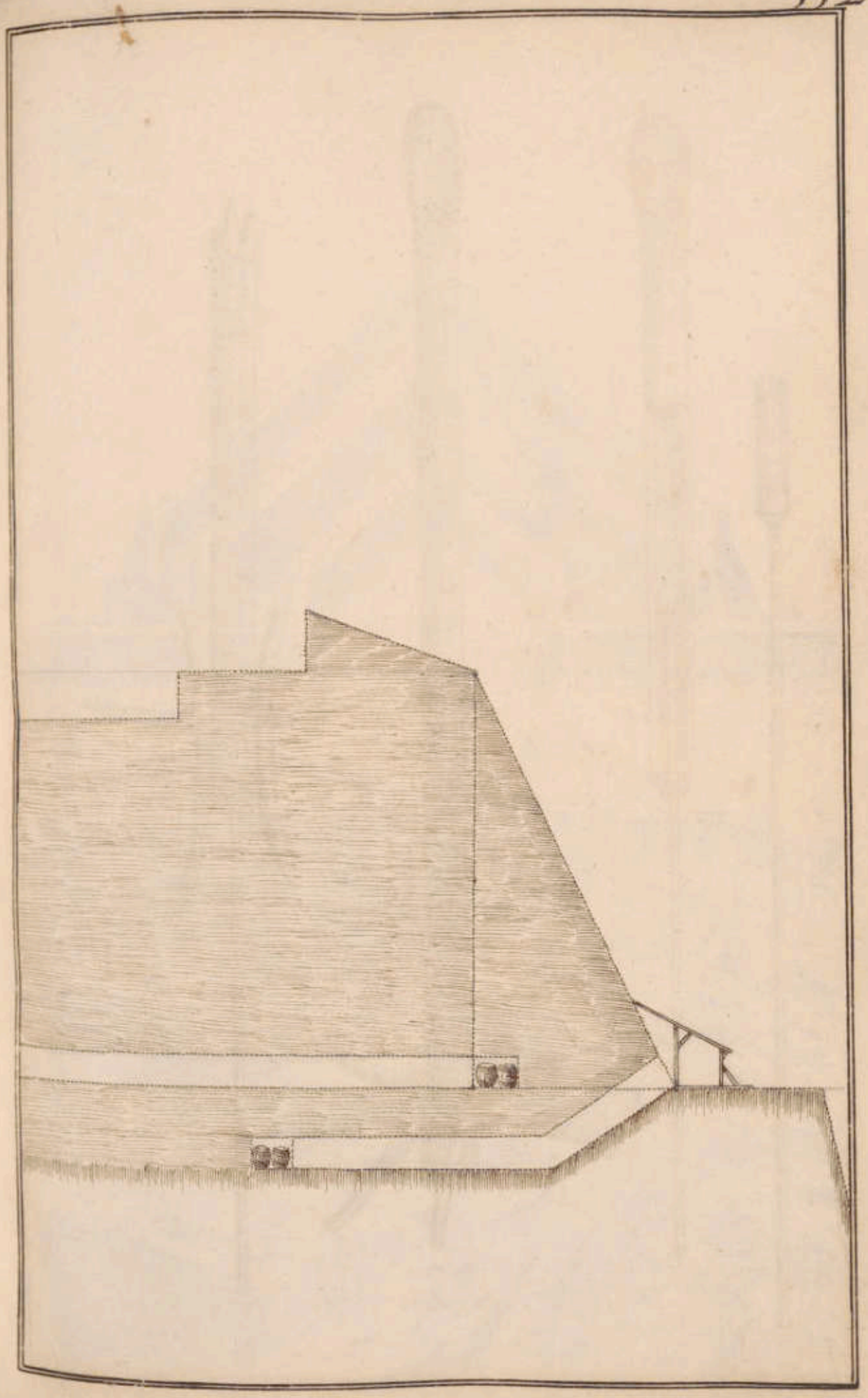


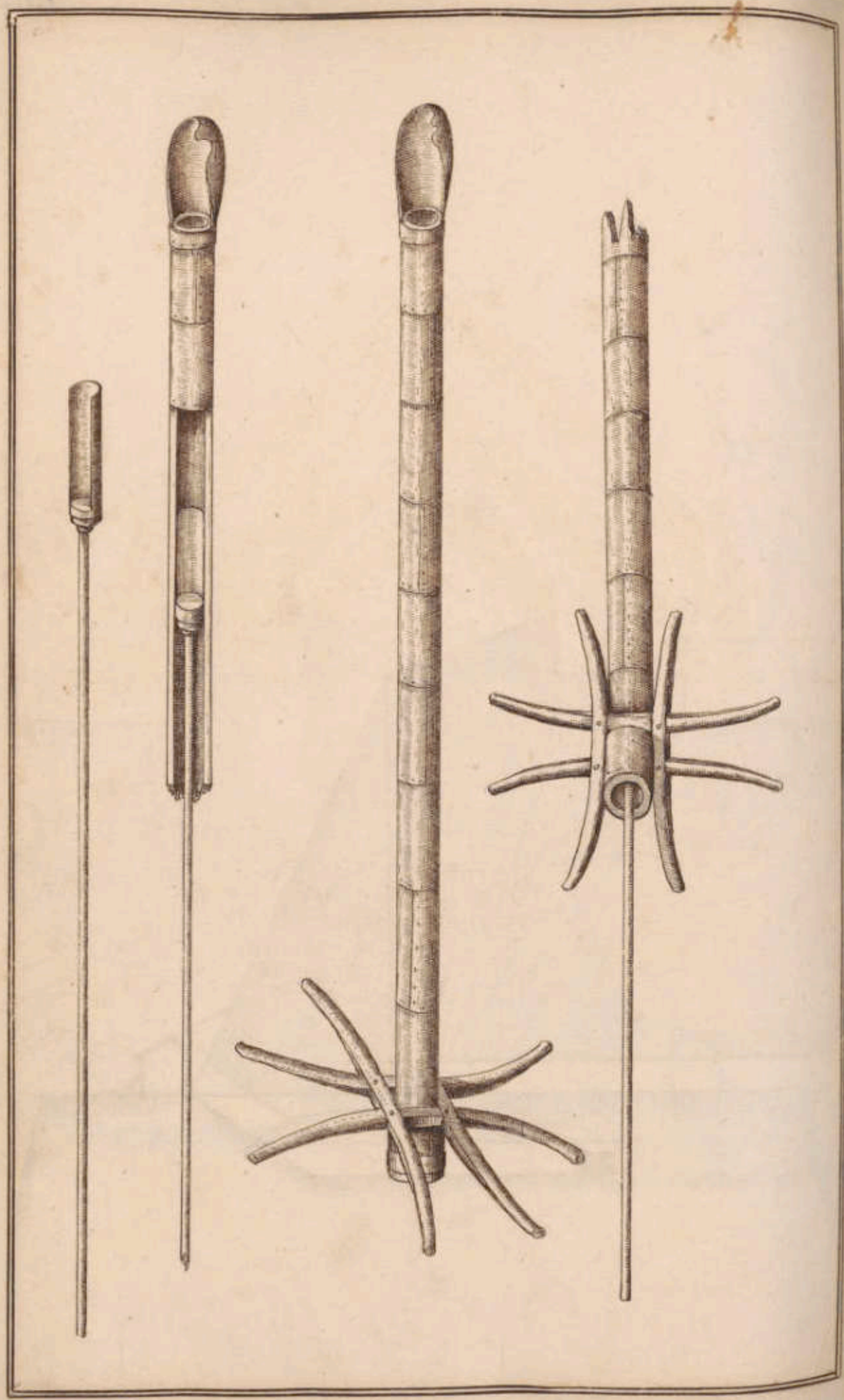


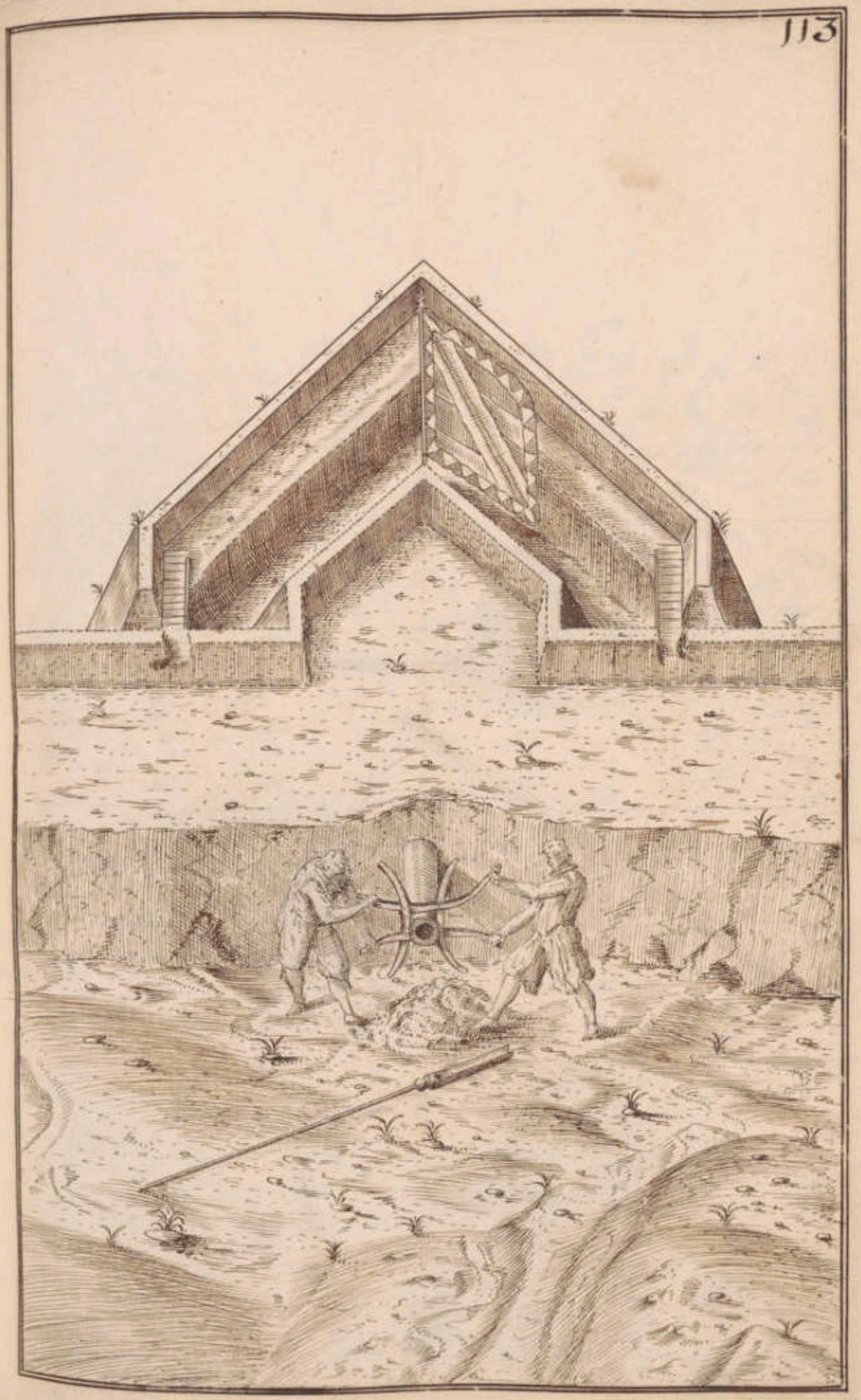


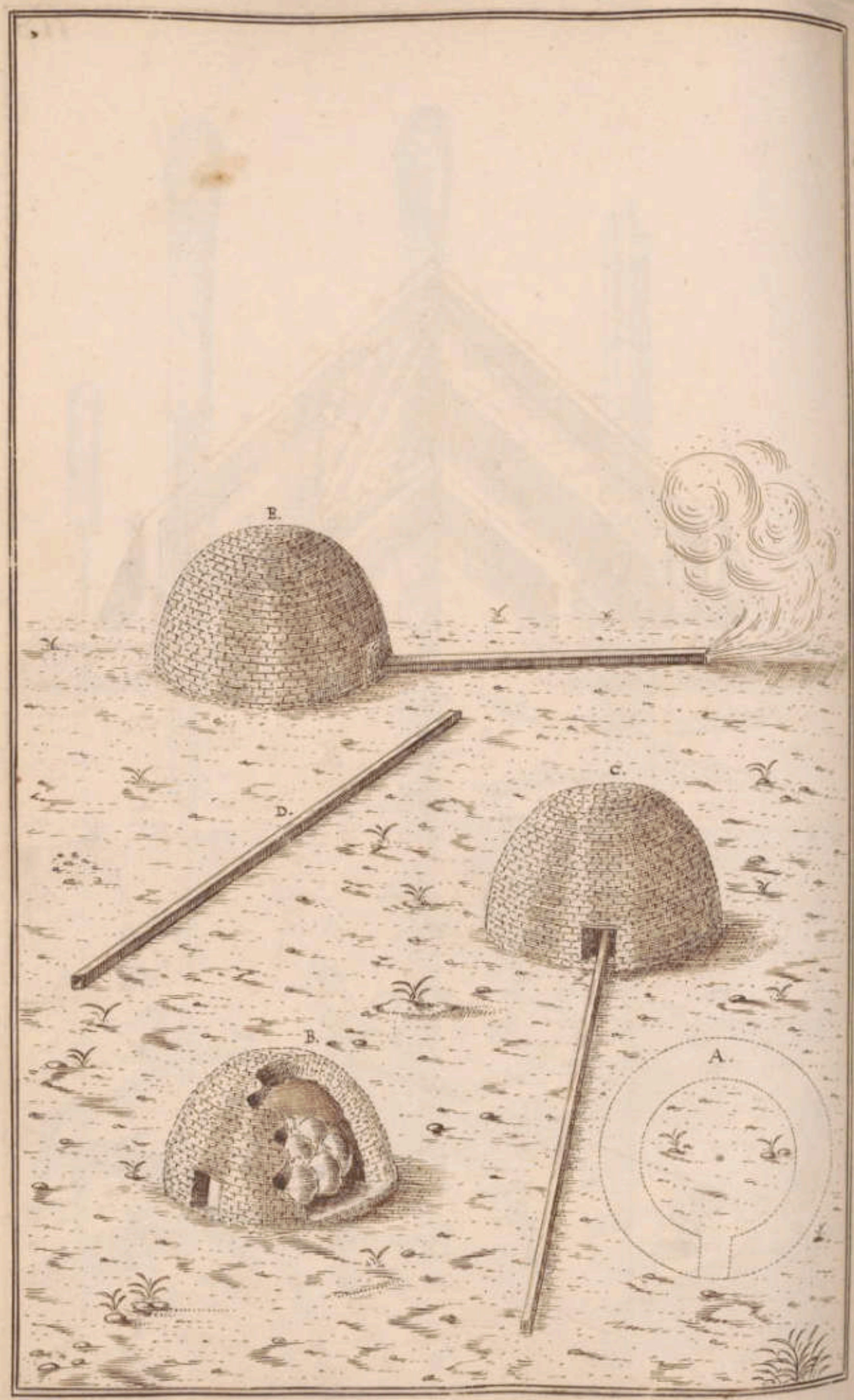


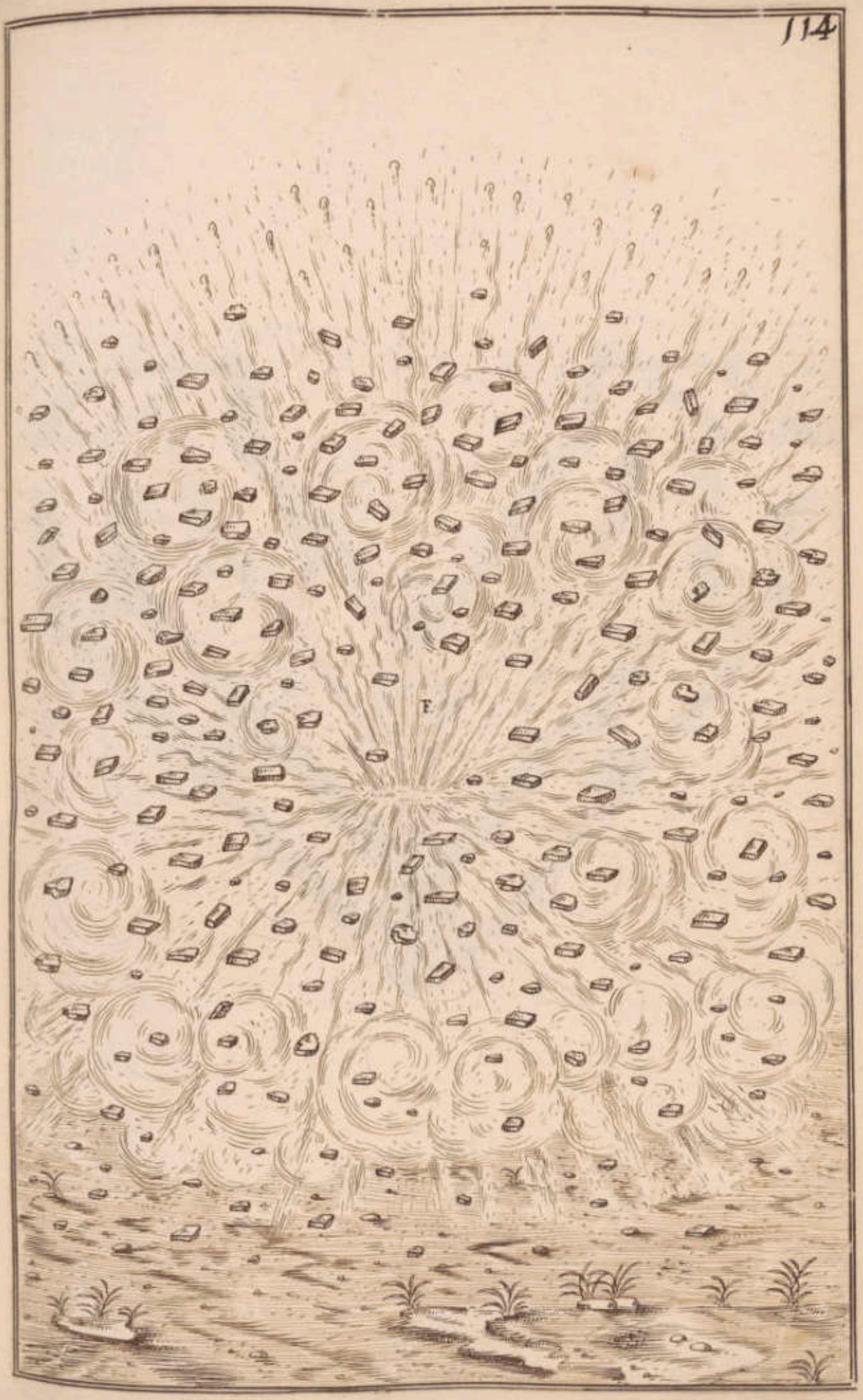


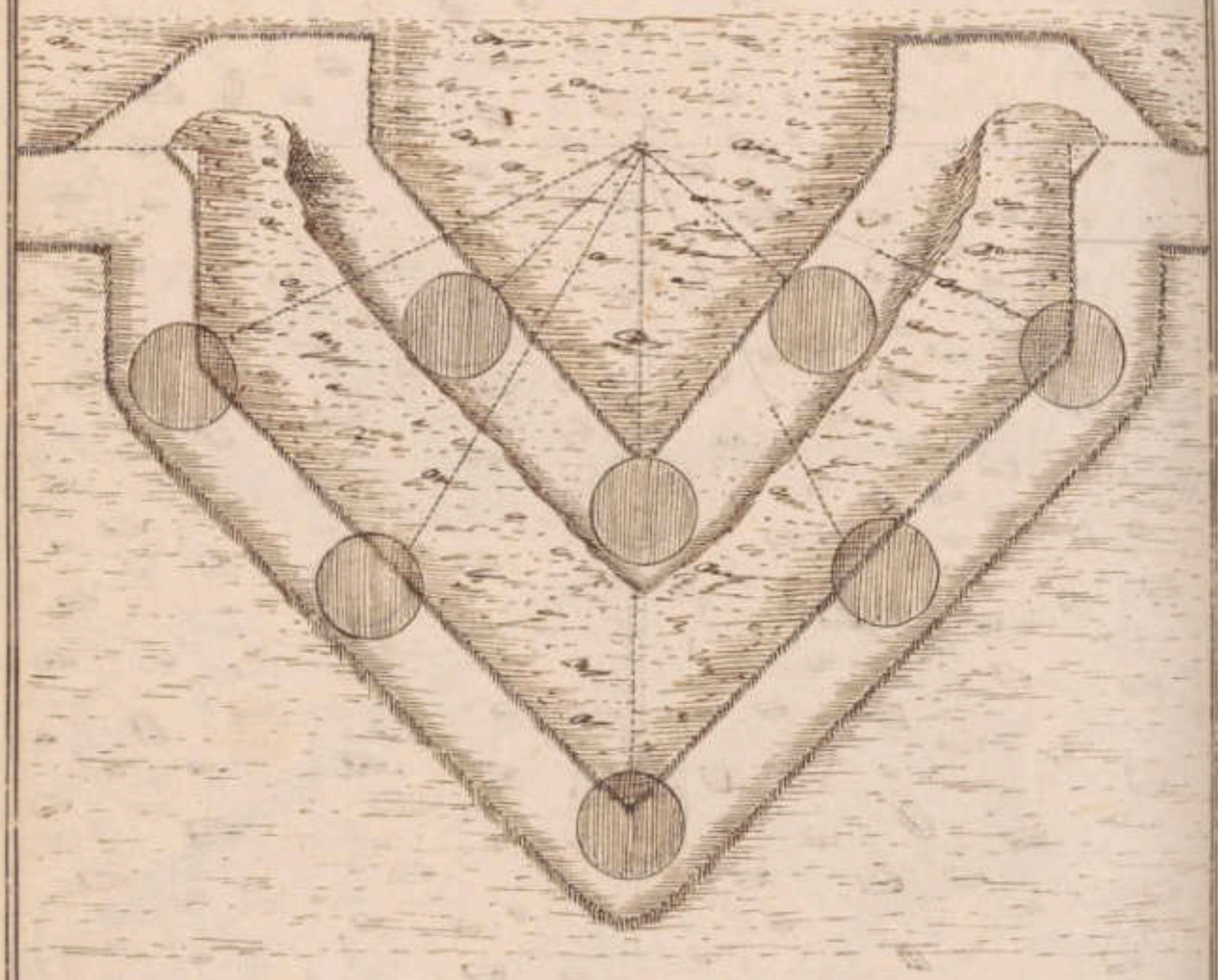


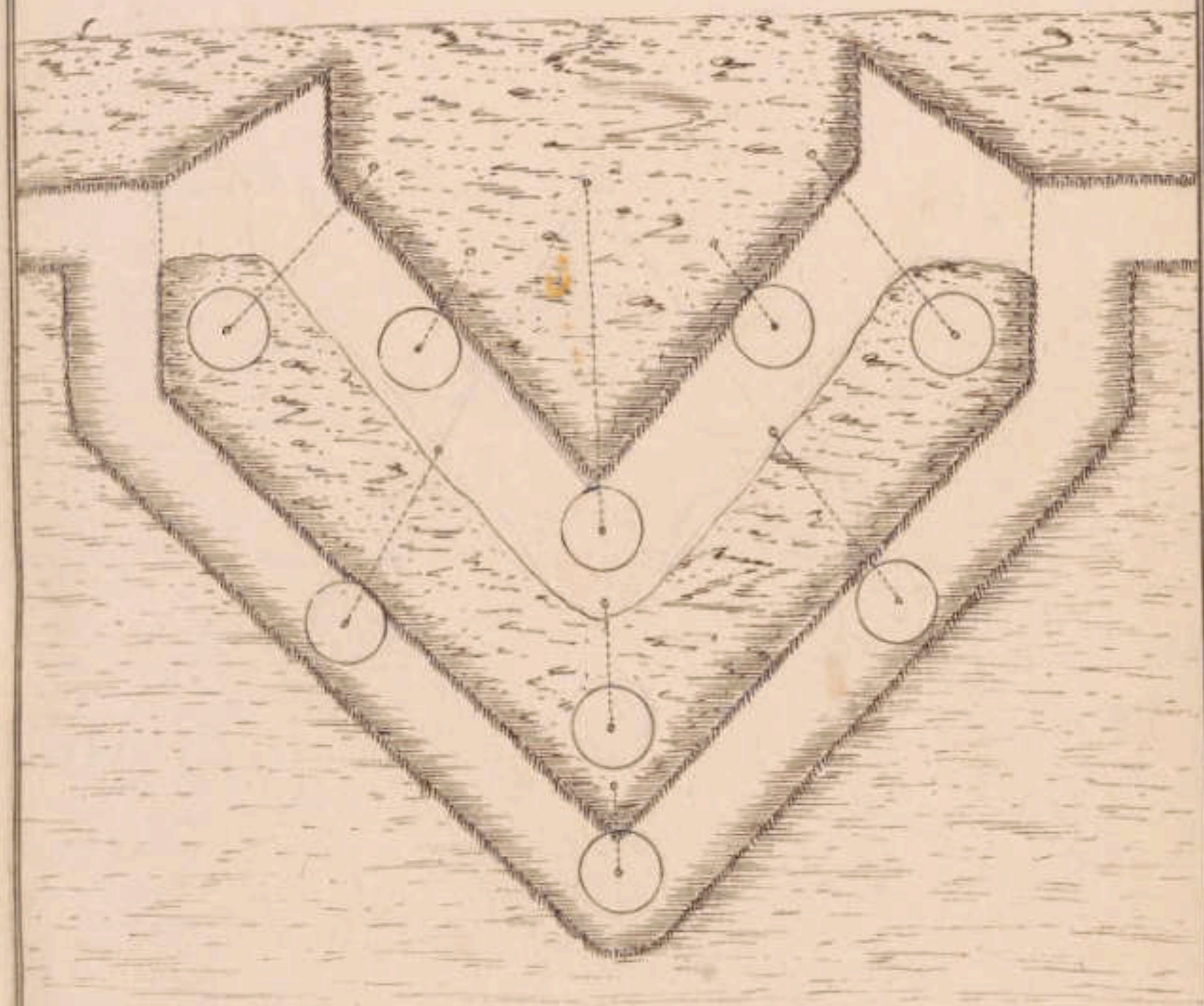


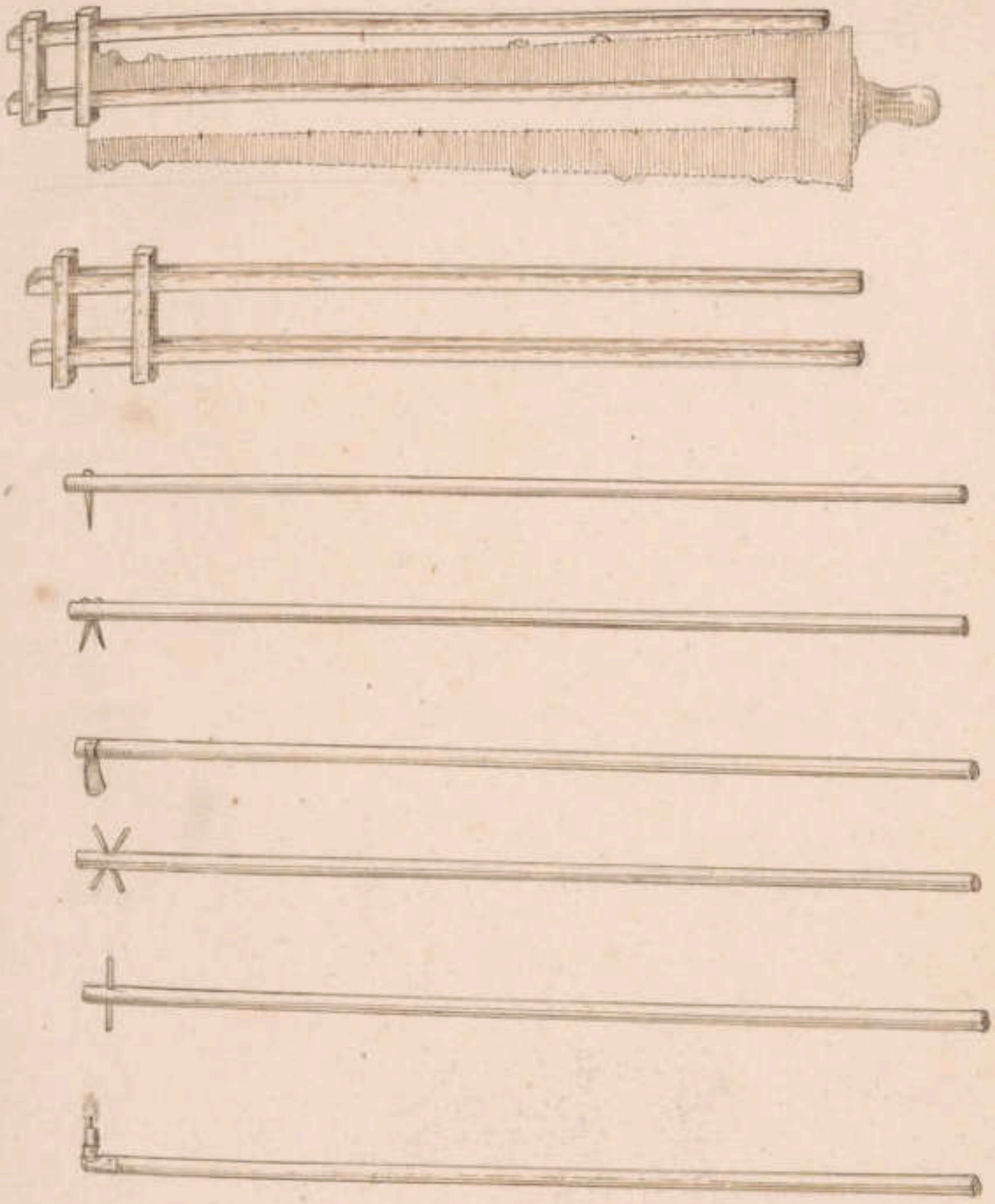


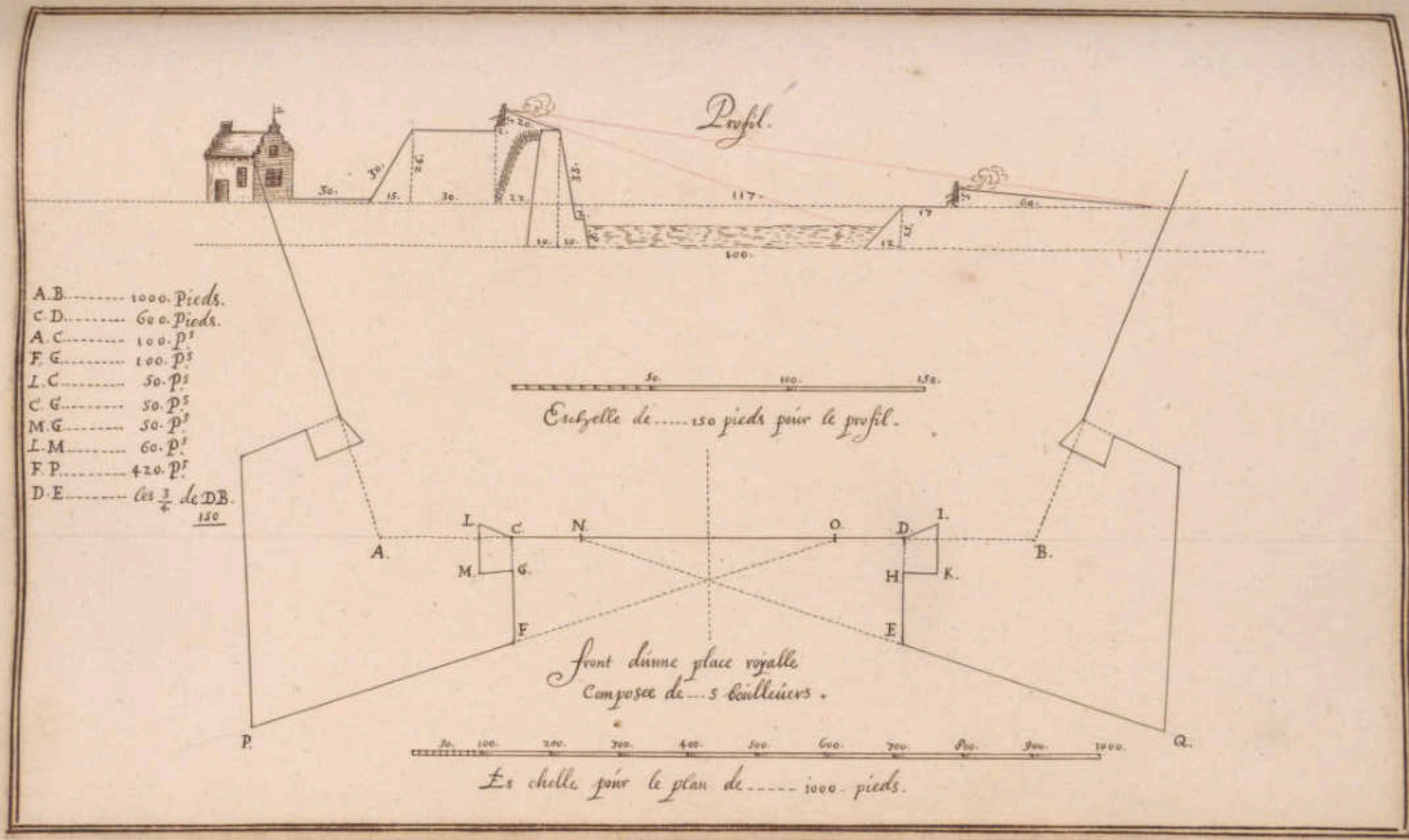


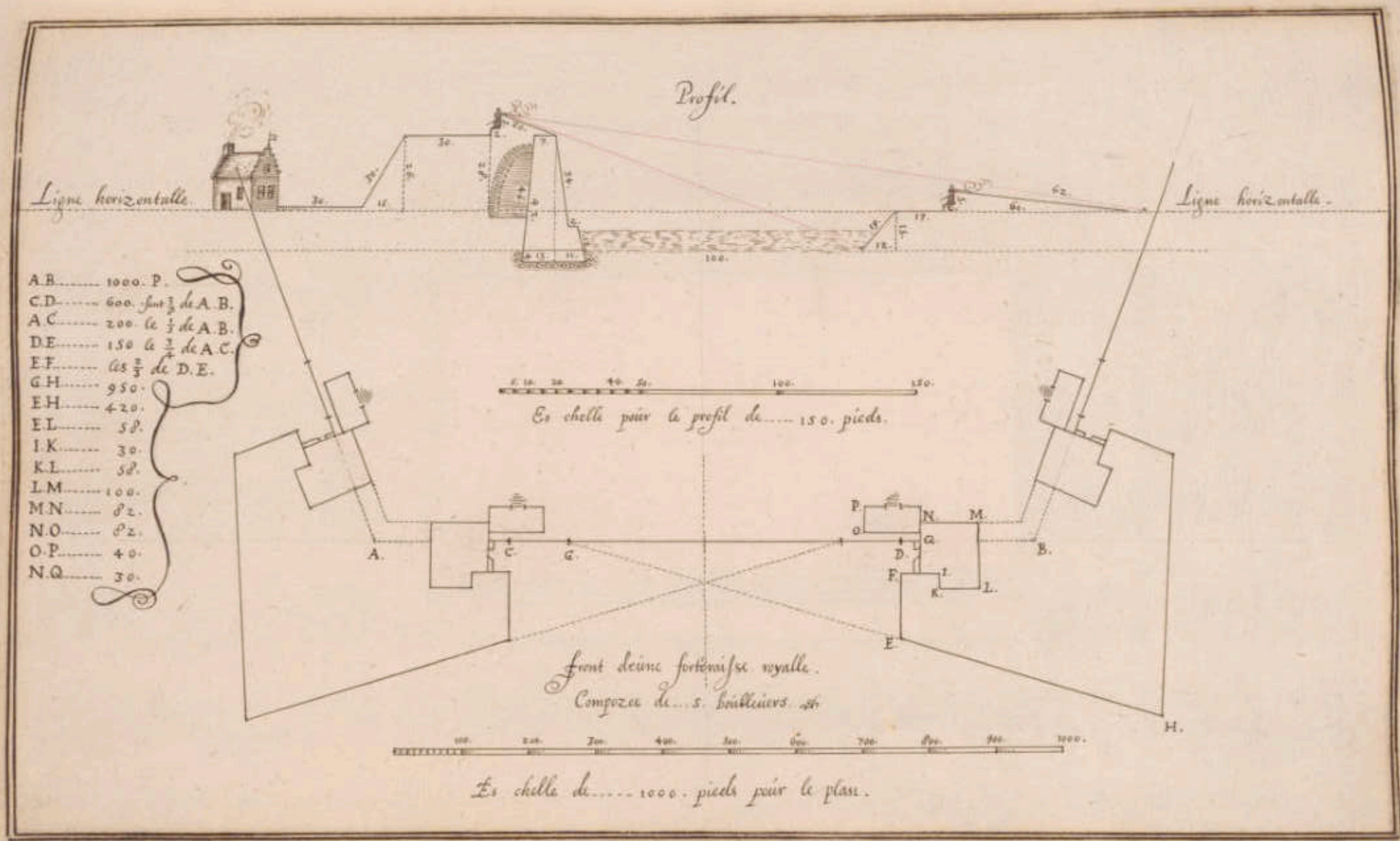


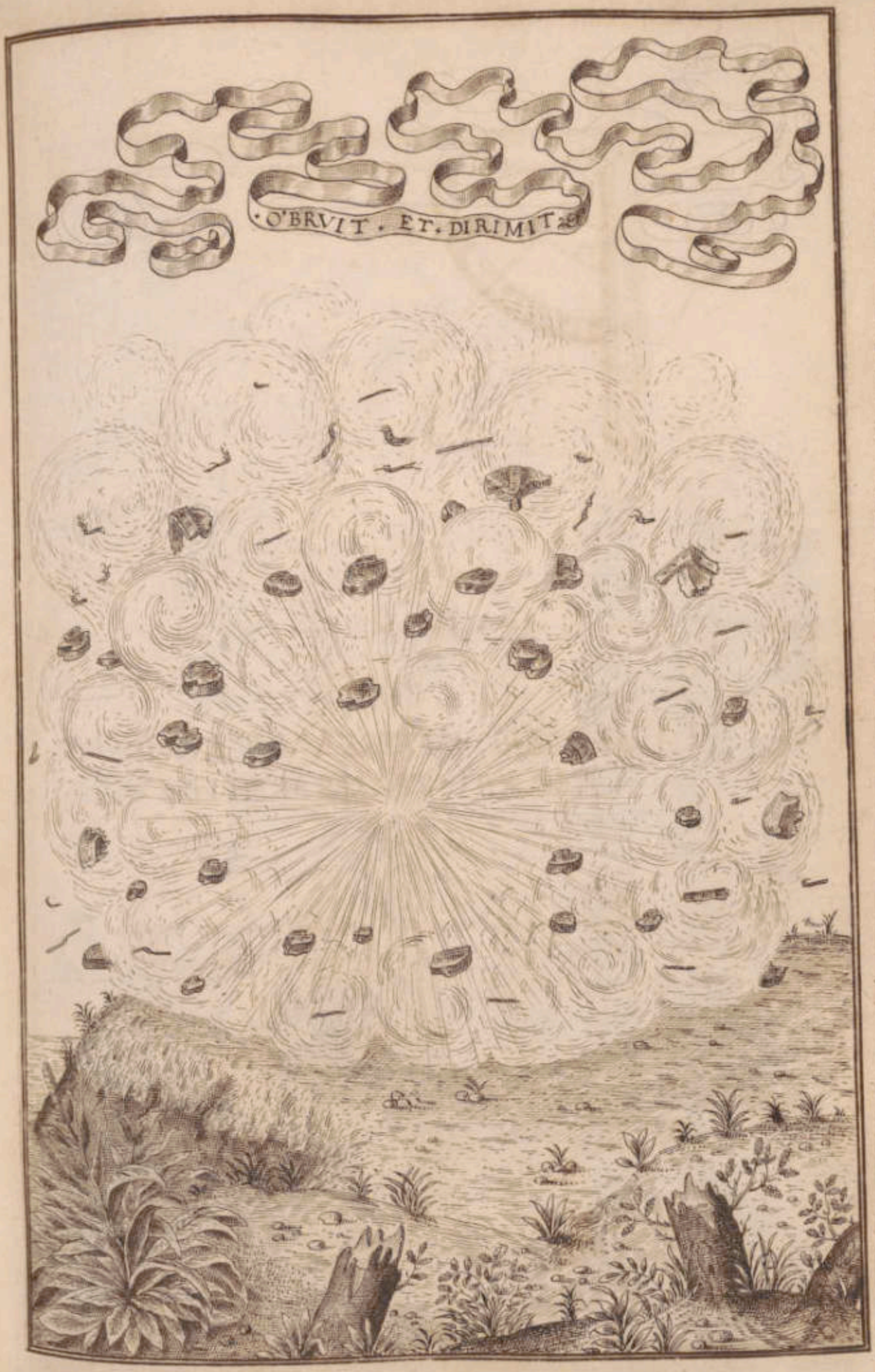


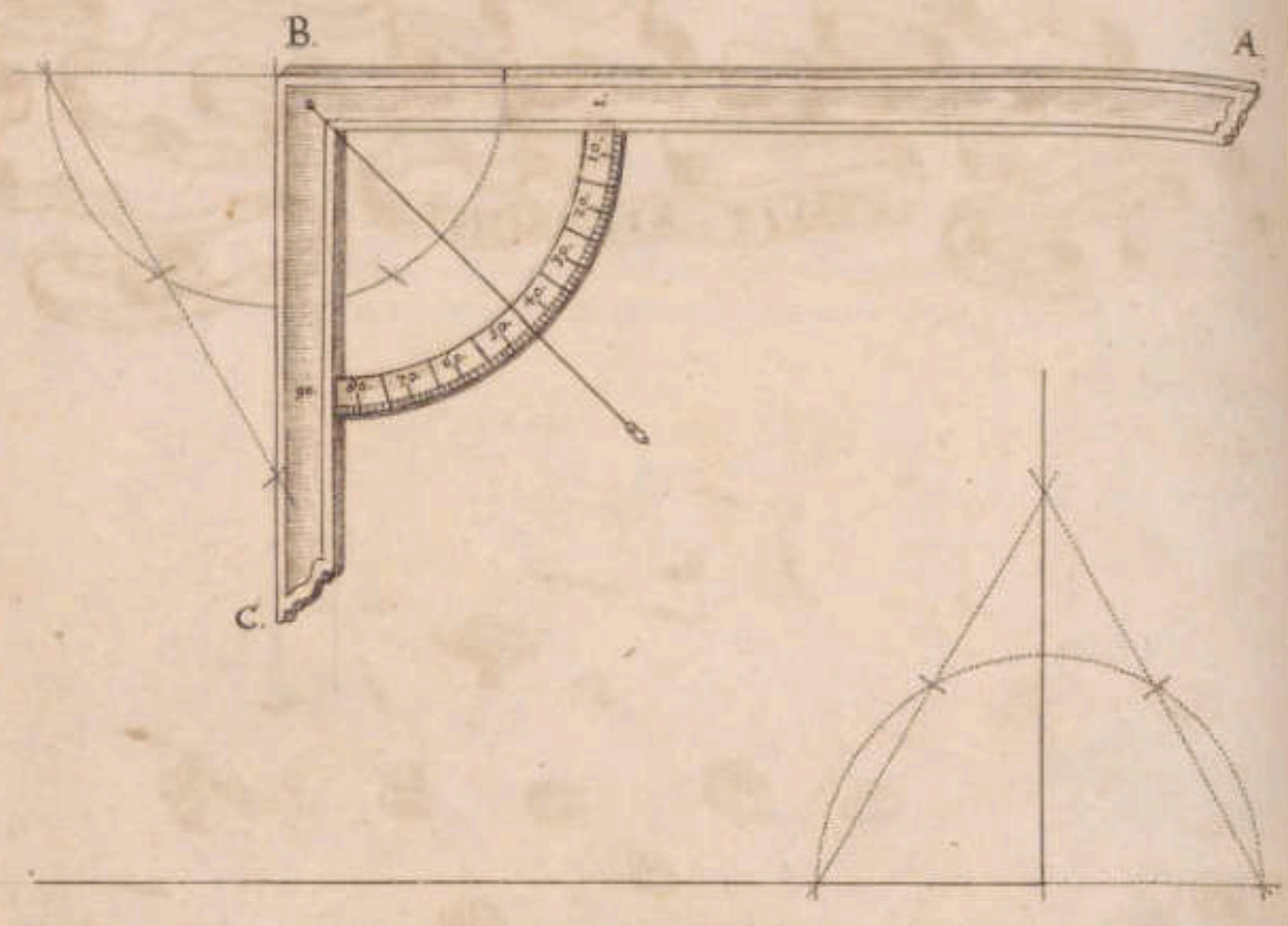












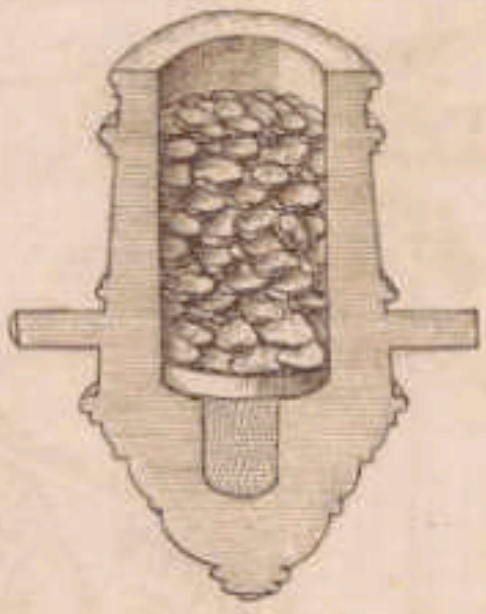
LA MANIERE DE FERRE VNNE EQVIERRE POVR A IEVSTER LES MORTTIES

Conuient qu'elle ayt depuis A. iusques a B. deux pieds en longueur Et depuis B. iusques a C. vn pied auecq son quart le cercle marque par degrez, comme icy la dessigne... ∞

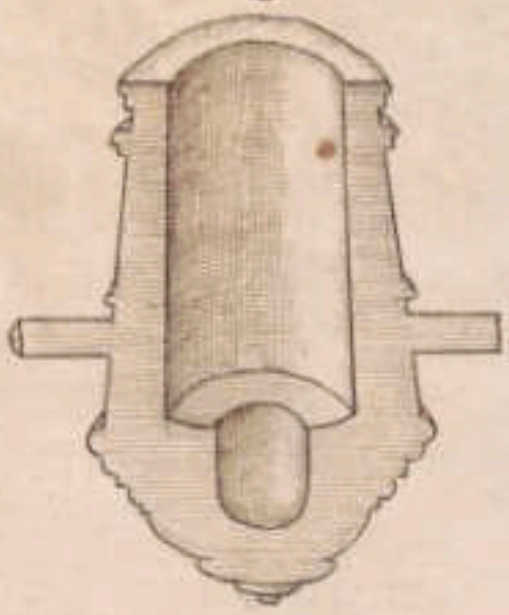
La maniere d'treuuer la Justesse de l'Equierre, en son angle, ∞.

La maniere de chazger le mortier

1.



2.

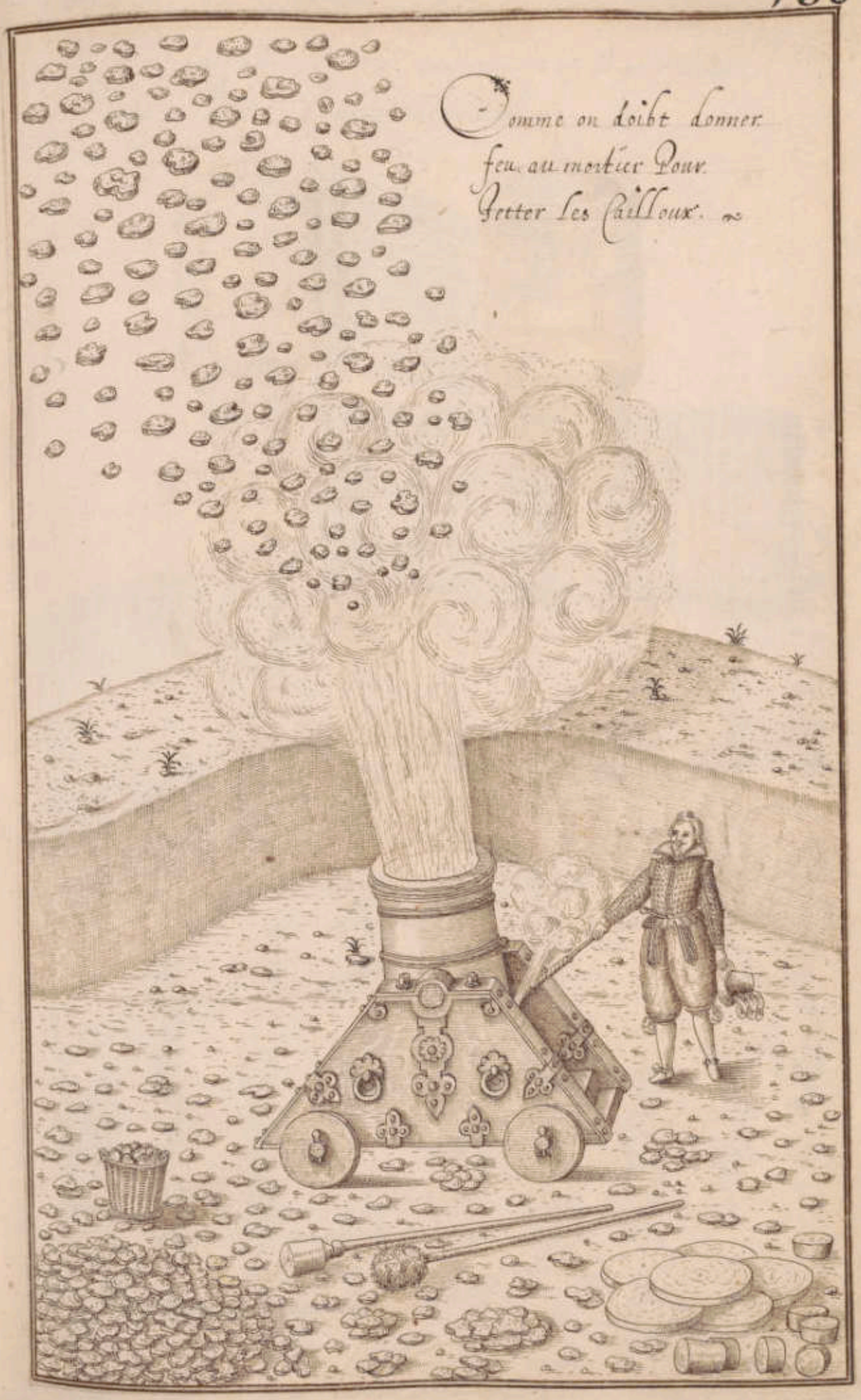


3.

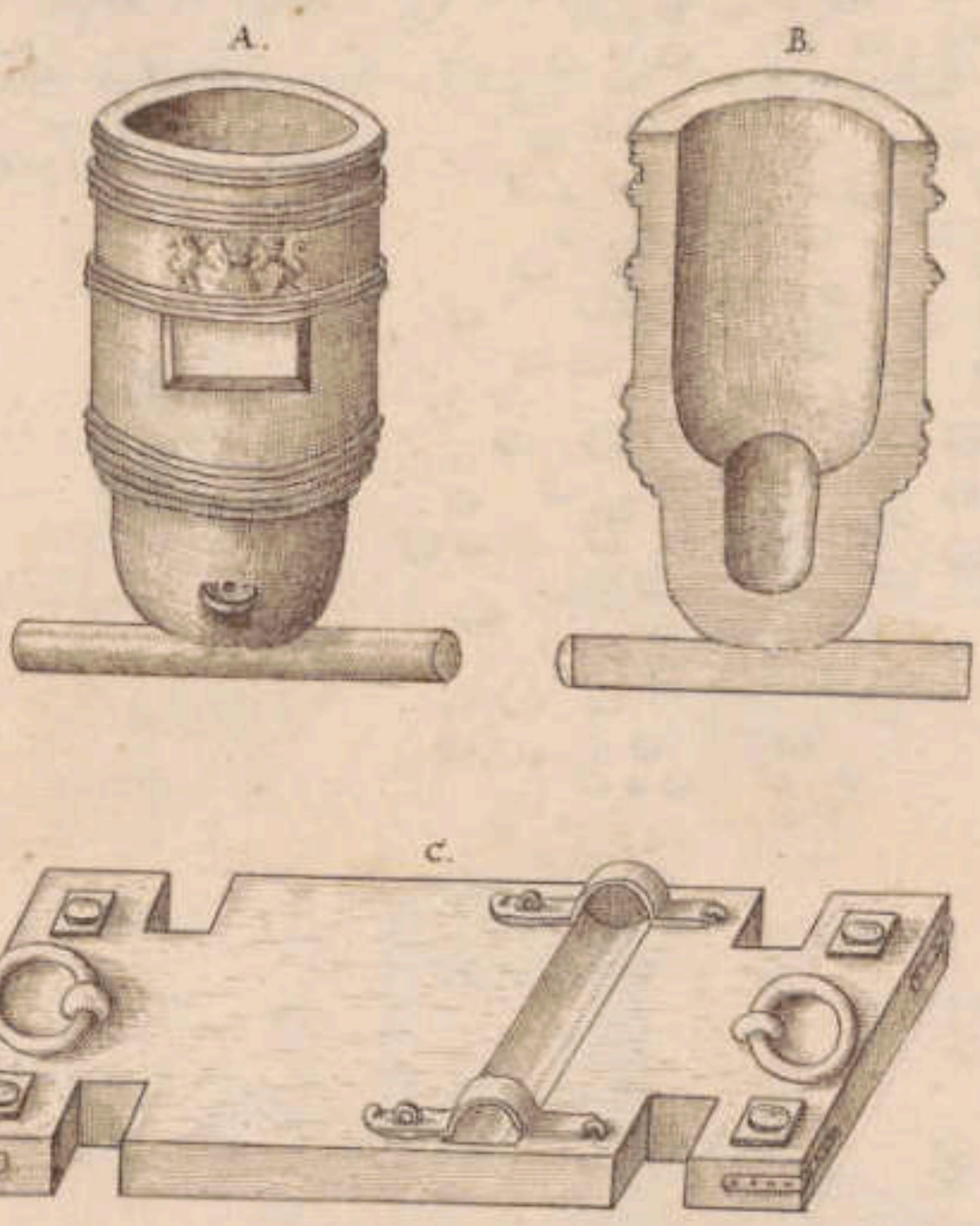
1. Premierement conuient emplir la Chambre de bonne et fine poudre Iusques a deux doitz du bord, puis y coingner de force un Rondeau de bois a la consistance de son calibre, sur lequel il faut encoigner vn aultre du calibre du mortier, Et pois de trois ou quatre pouces, ou seront entassees les pierres ou Caillouxs.

2. Le dedans du Calibre du mortier.

3. Comme doibt estre l'Exterieur du mortier.

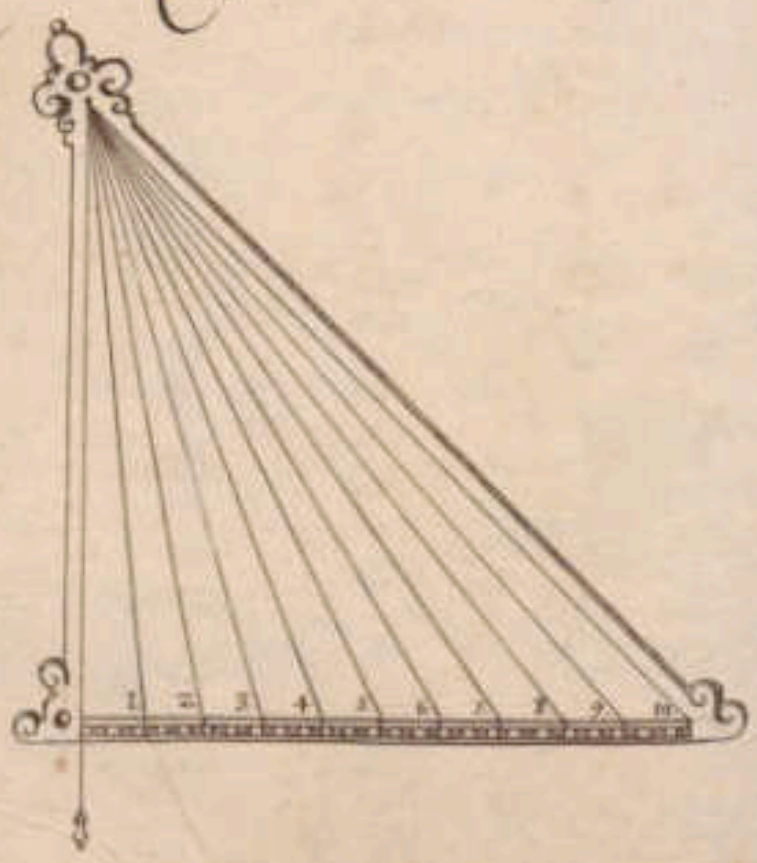


Comme on doibt donner feu au mortier pour getter les Cailloux.

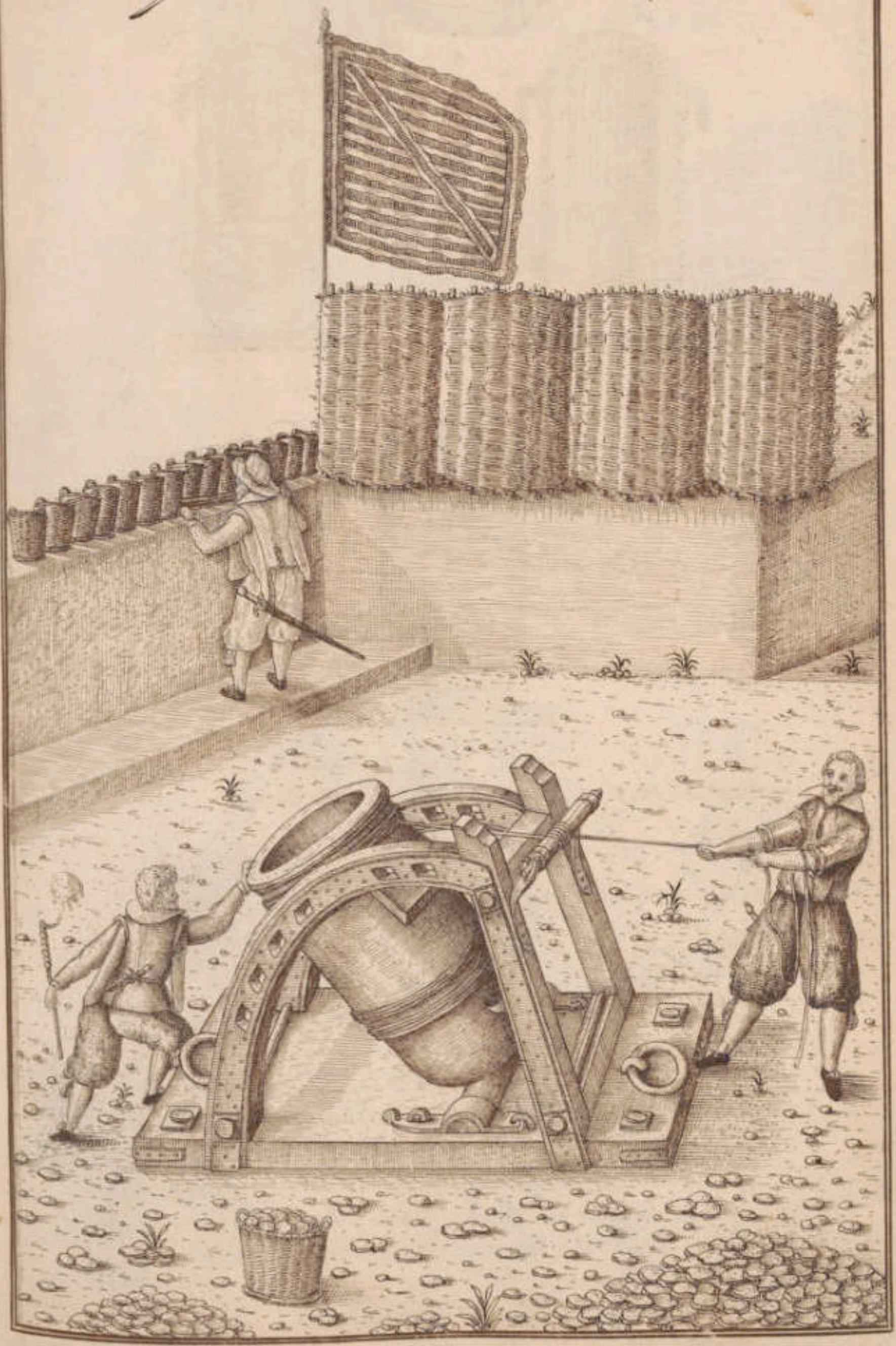


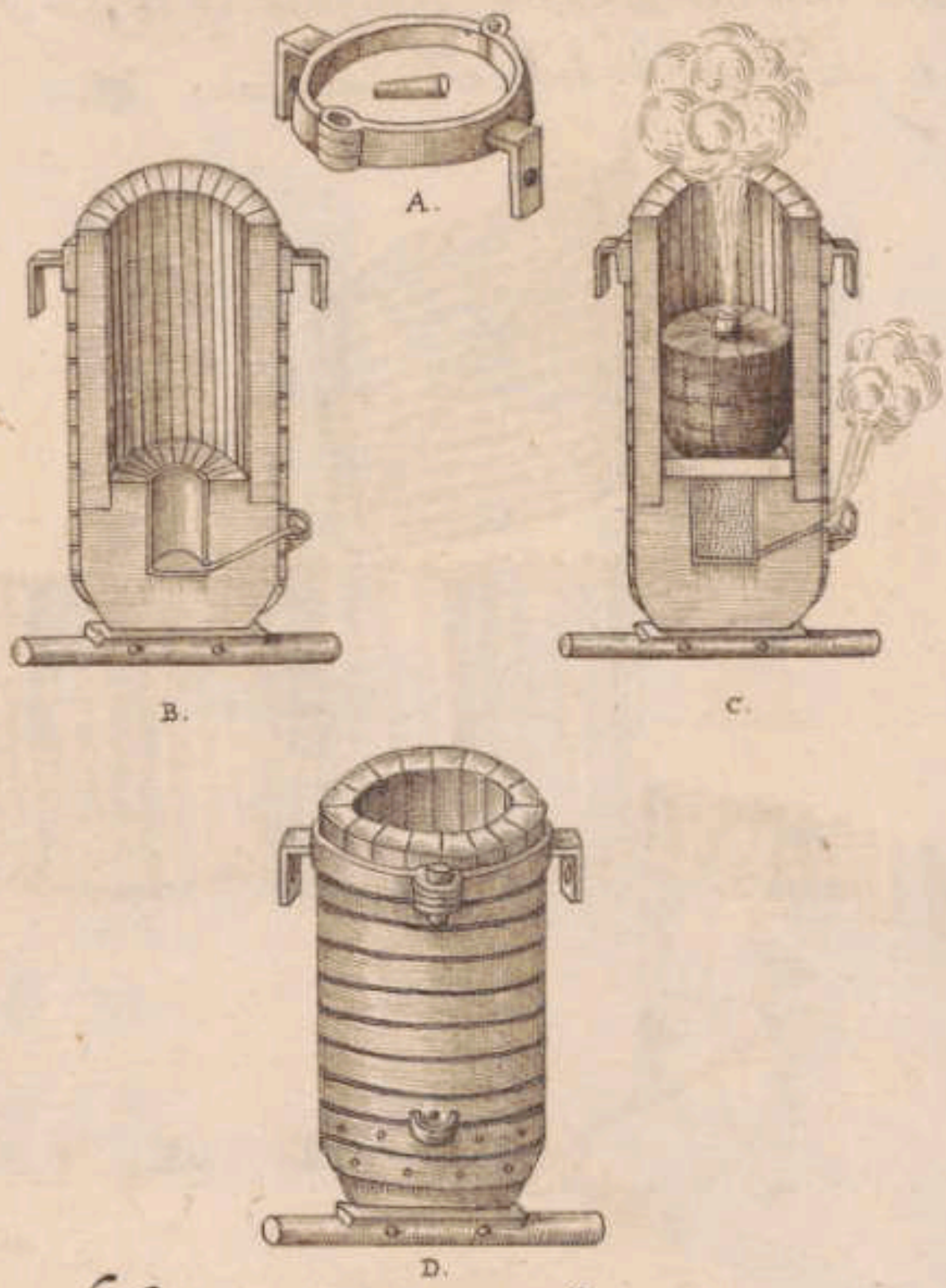
Modelle d'vn grand mortier de Bronze gagne à la prise de Rinsberck

A. Exterieur du mortier.
B. Interieur du mortier.
C. Le pie de la fuste.



Comme doibt estre ce mortier monté en son affust pret à tirer, et de quelle sorte Il doibt estre manié.





Mortier de bois gaigne a Rinsberch

A. Le grand cercle dans lequel glisse le mortier.

B. L'Interieur du mortier,

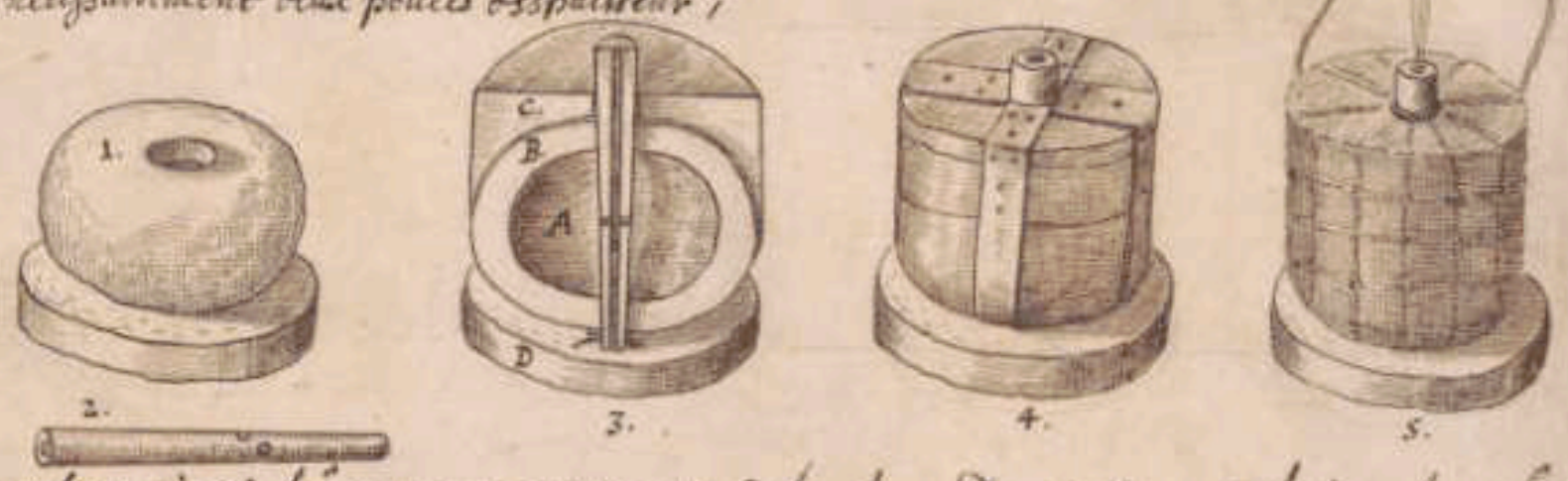
C. La maniere de charger ce mortier, est Il le faut premierement emplir la Bombe de fine poudre et l'etouffer d'un Fondeau de bois, epois de trois ou quatre ponces tourne, Justement et galle au calibre, et apres bien calfeutree d'auec mousse d'arbres ou autre matiere propre a contregarder du feu, crainte que le cordage et etouppes poisses qui sont allentour de la bombe s'allume. Et la Bombe mise auecq la fusee en haut ainsy que se void icy dessegne, et le feu donne a la Bombe, faut al'instant meme le donner aussy vers le fougon, A quel effet sera necessaire tenir continuellement trois ou quatre boutefeux allumes &c.

Premiere forme de Bombe

1. La Bombe doibt estre non du tout ronde, mais presques semblable a une orange un peu platte par deux costes auecq deux trouz, l'un plus large que l'autre affin que la Buse ou Canon de Bois qui passe a trauers serre tant mieulx.

2. La Buse ou Canon doibt estre du bois dure comme frene, ou lorre, plus gros a bout qu'a l'autre, trouuee par le milieu, affin de transmettre le feu de la fusee a la poudre.

3. Bombe mipartie afin de monstrer la separation de toutes les pieces. A. Le lieu ou est la poudre, B. espaisseur de la bombe laquelle doibt auoir necessairement deux pouces d'espaisseur,



C. probe ou piece de bois tournee comprenant la Bombe. D. Rondeau de bois sur lequel doibt estre posee la Bombe dans le mortier.

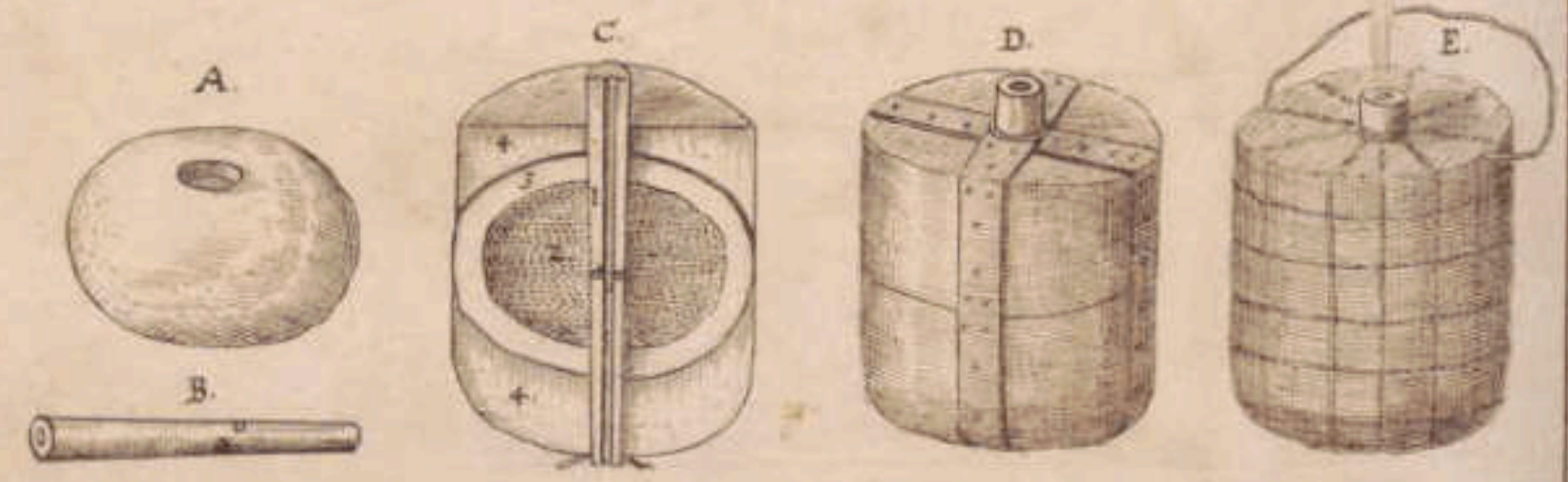
Deuxiesme Bombe

A. La Bombe simple, B. La Buse ou Canon, C. Bombe mipartie affin de monstrer la separation, laquelle doibt estre Armee de double probe, affin que tombant a plomb elle ne s'enfouse en terre.

1. La Buse ou Canon, 2. Le lieu de la poudre, 3. La Bombe, 4. les probes,

D. La Bombe bandee et clouee.

E. La Bombe assortie de toutes ses pieces.



Troisiesme forme de Bombe.

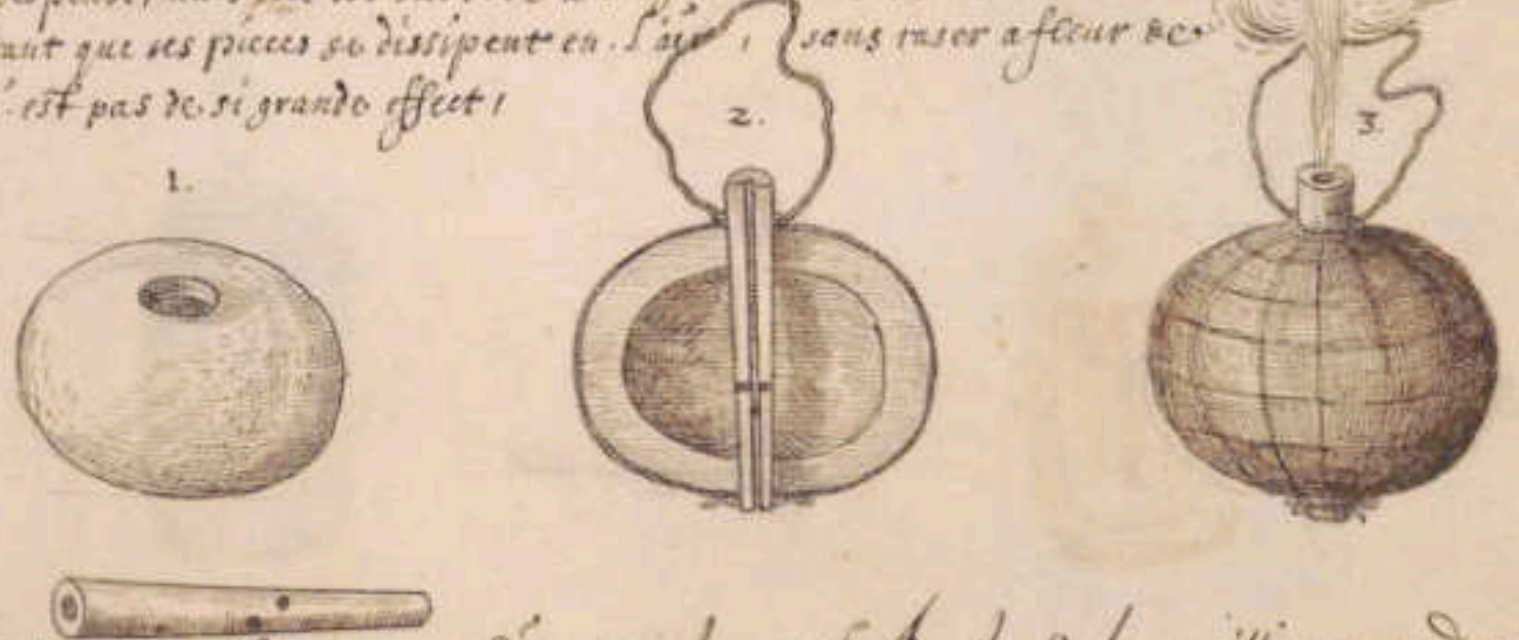
Accommoder une Bombe dedans un petit tonneau selon le calibre du mortier, afin d'empescher qu'elle ne s'enfonse en terre,

A. Bombe toute nue auec sa buse ou cauneau.
B. Bombe mi partie pour veoir la difference des Interieurs
C. Bombe toute chargee liee, enuelope, coeffee, poisee, et preste a seruir.

Quatriesme forme de Bombe.

1. Bombe toute nue auec sa buse, ou cauneau,
2. Bombe mipartie,
3. Bombe chargee, et couuerte de double canebaz enuelopee, de toupes et poisee,

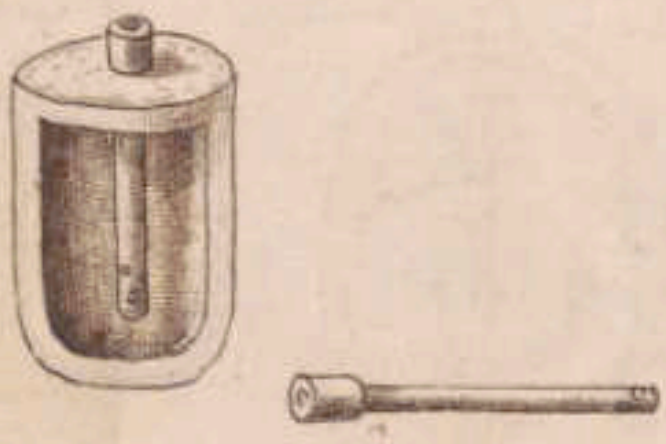
Celle cy, comme a, pas tant de façon que les autres aussy est elle de moindre despense, mais elle est subette a s'enfonser dans terre en tombant, et d'autant que ses pieces se dissipent en l'air, sans raser a fleur de terre, n'est pas de si grande effect,



faut aduertir que il sera expedient de charger la Bombe de la meilleure poudre, laquelle n'est point concasee, affin que elle ait plus de force,

1. Balle artifficielle.

Balle de metal artificiel a charger dans vn canon ou demy canon, propre a tirer dans terrasses, laquelle enfonsee bien auant par la force du coup creue, et ouure la terre mais d'effect assez incertain, et dangereux, &c.



2. Balle Artifficielle.

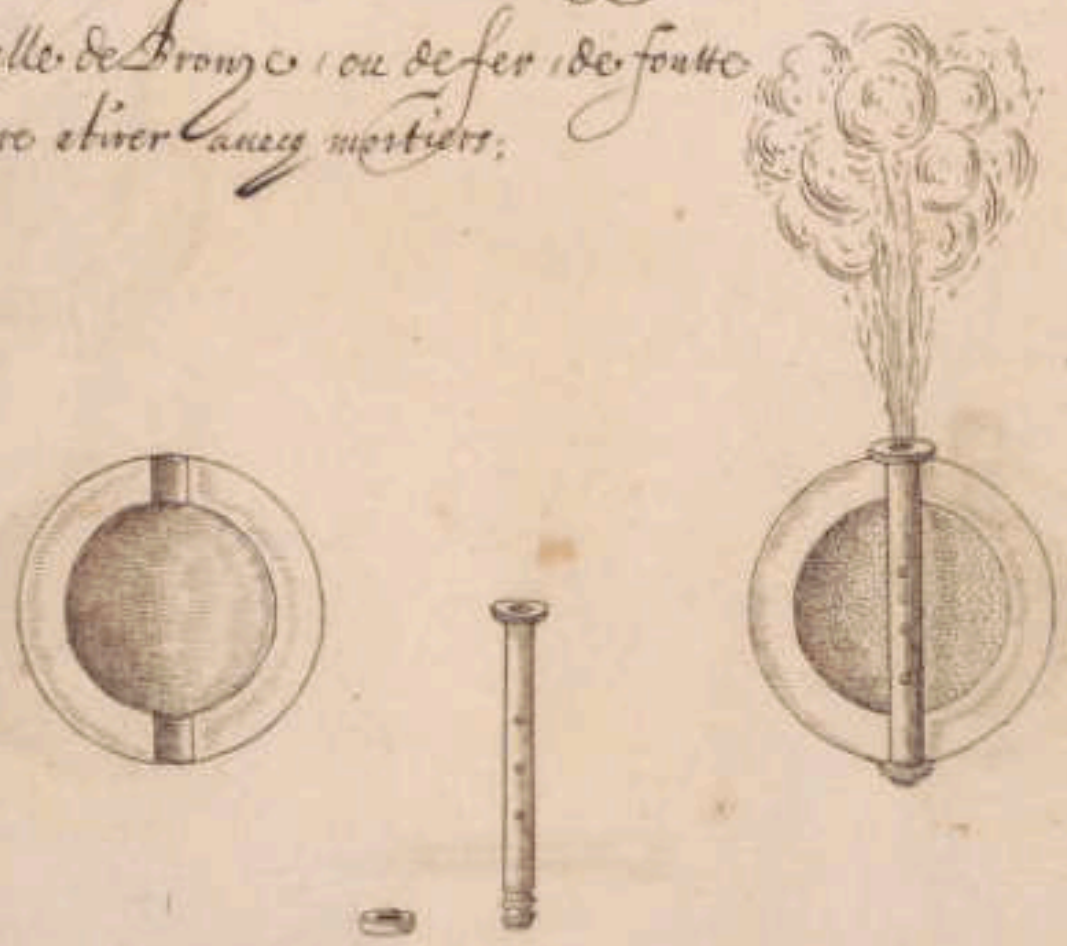
Autre balle de fer, faisant mesme effet. Laquelle est éprouuee se trouuee de peu d'vtile vsaige.

3. Balle Artificielle.

Balle de bronze à meme effet.

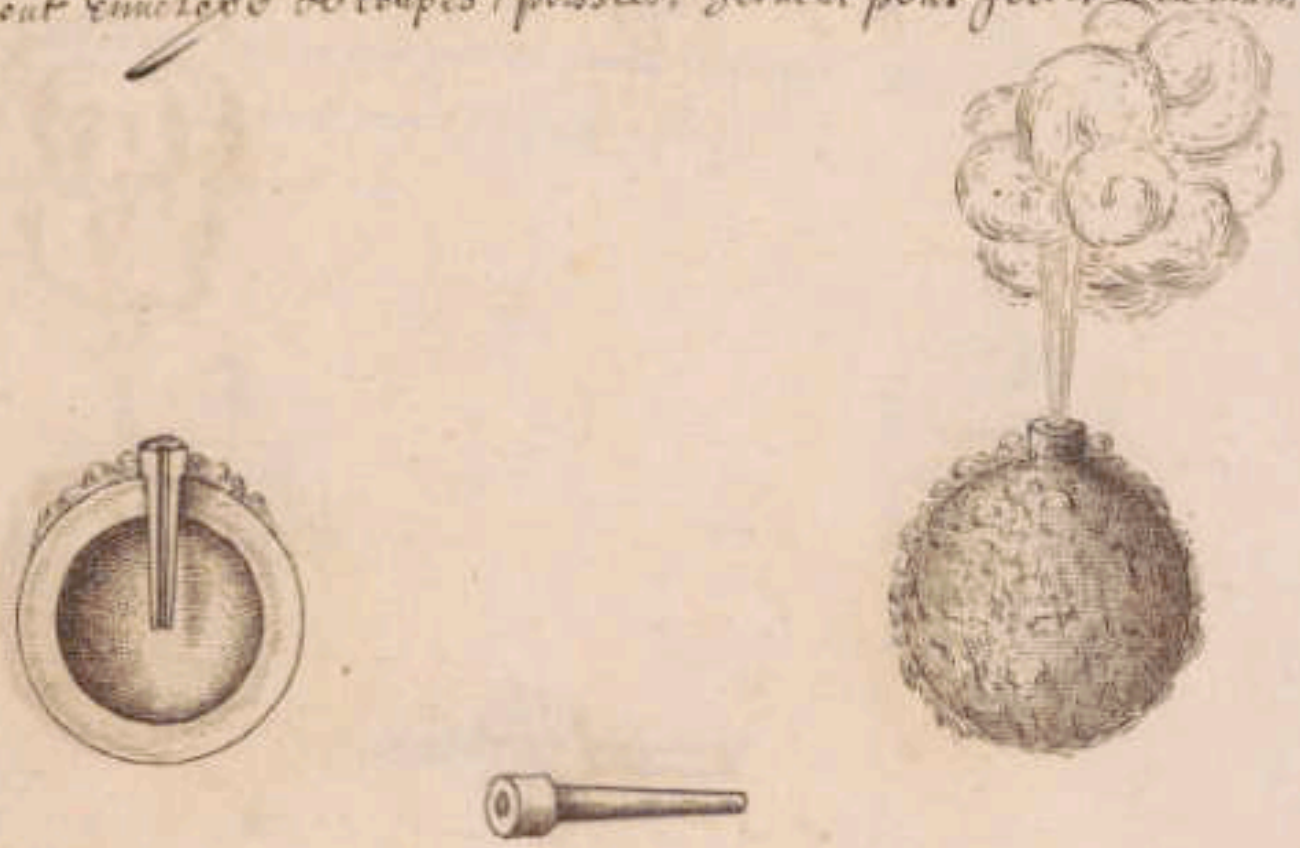
4. Balle Artificielle.

Balle de bronze, ou de fer, de fonte propre à tirer avec mortiers.



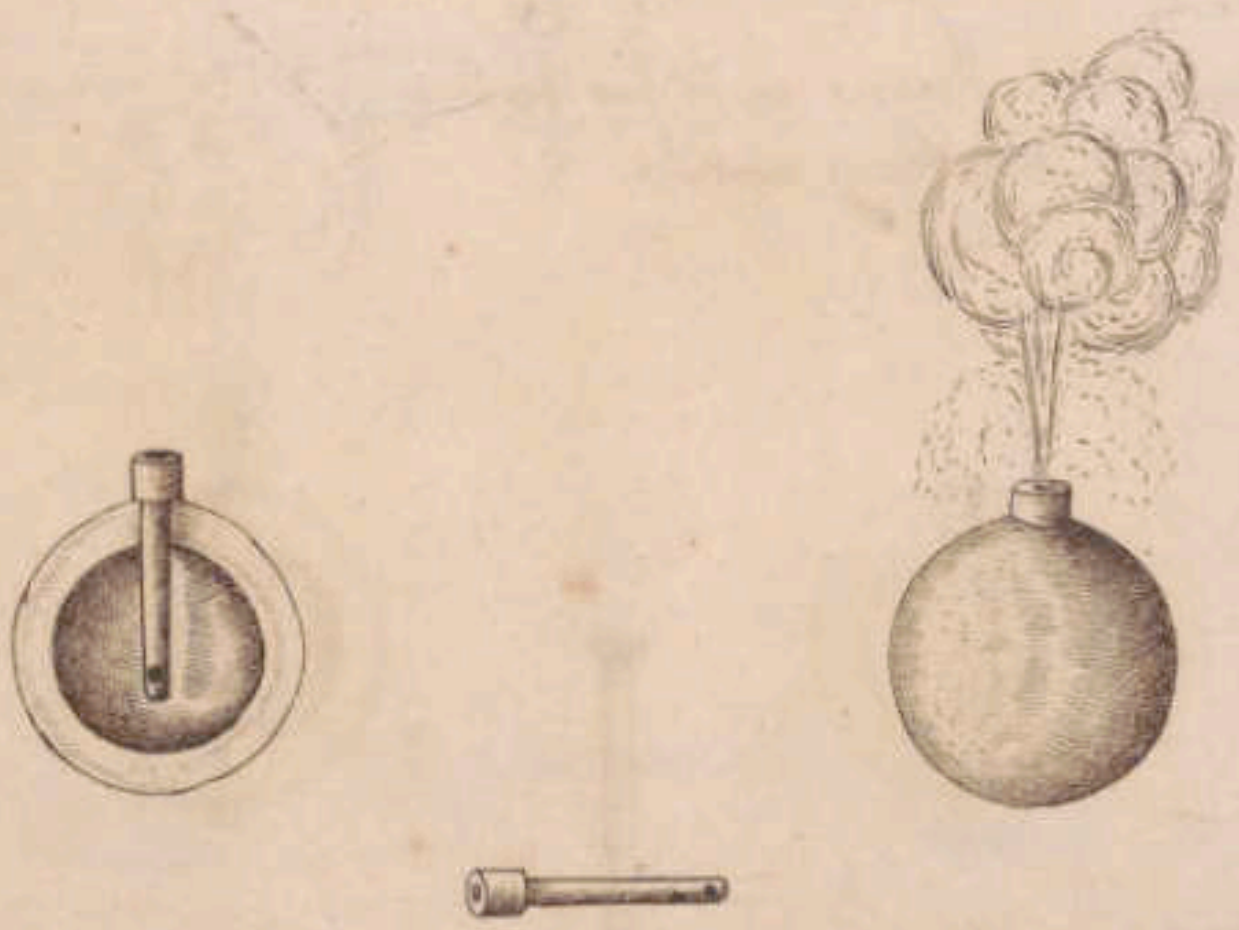
La maniere de faire les grenades communes.

Les grenades simples se font tant de fer que de fonte, et se chargent de poudre grenee auec vn tuyau de bois auquel est applique la fusee le tout emmeloe de toupes, poisses, servent pour jetter a la main.



Grenade de Bronze.

Auec le tuyau de fer, celles cy servent pour jetter a la main.

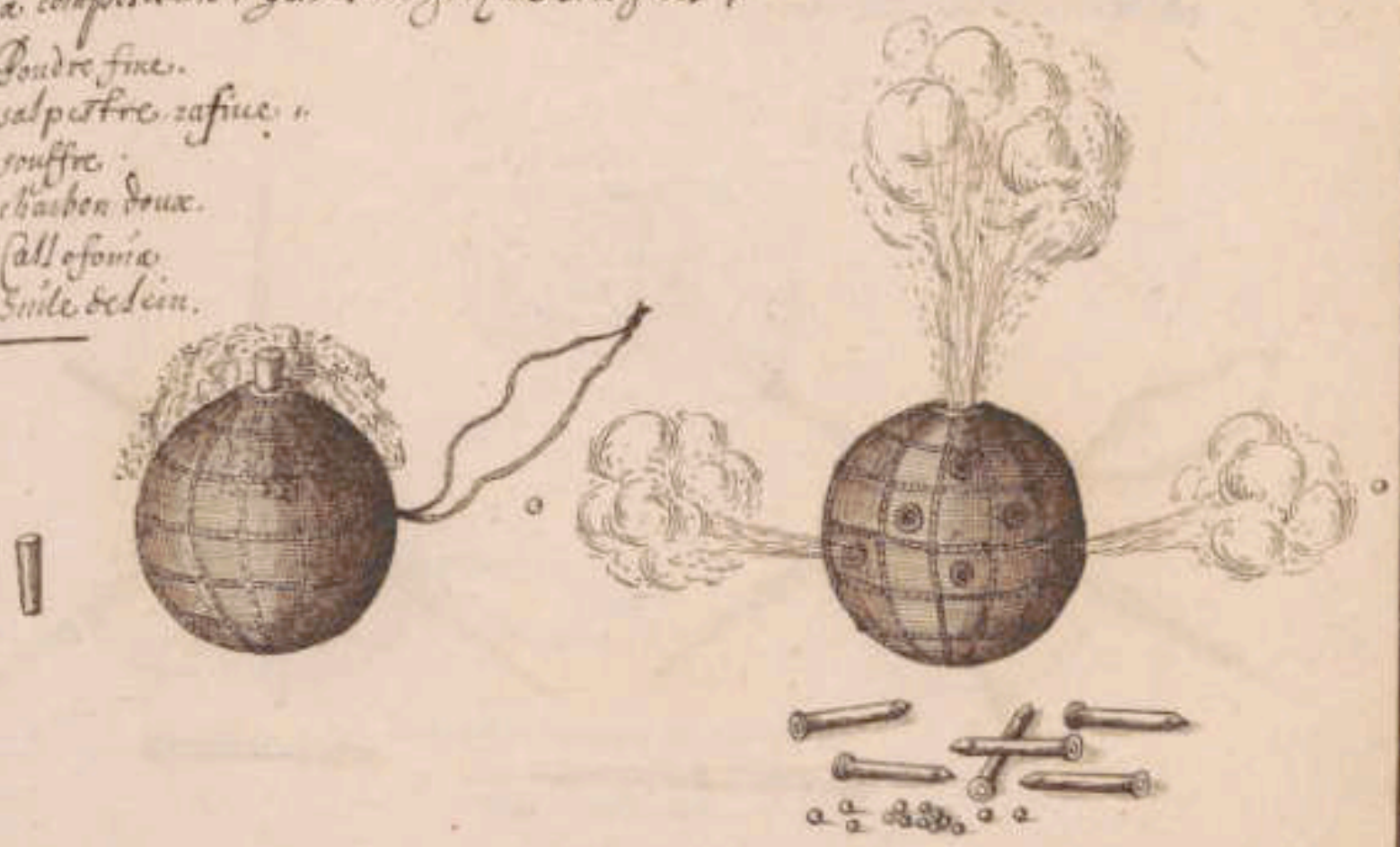


Grenade de Canebas

A. Grenade cordée, et agensée, comme elle doibt estre.

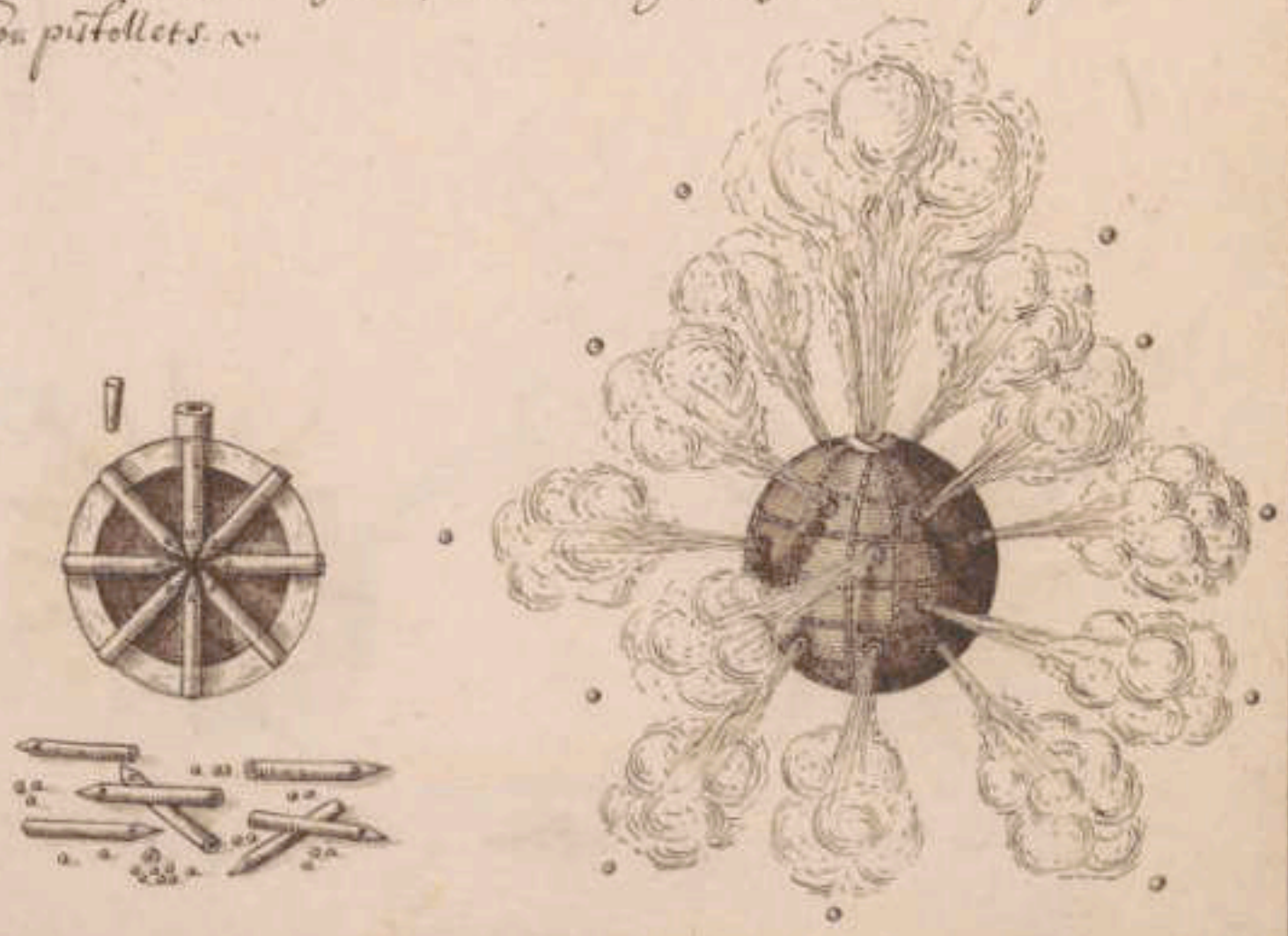
B. Balles ou grenade de Canebas, preparée, Premierement de Canons de pistollers de my pie de longitude charges de poudre fine, en cey chascun une balle et ce cee ordinairement quatre ou six pistolles, puis les estoffes qui fument donc la composition, gerb. aux feux de Artifices.

½ ℔ Poudre fine.
¼ — salpestre rafine.
¼ — souffre.
¼ — charbon doux.
¼ — Callefornia
¼ — huile de lein.



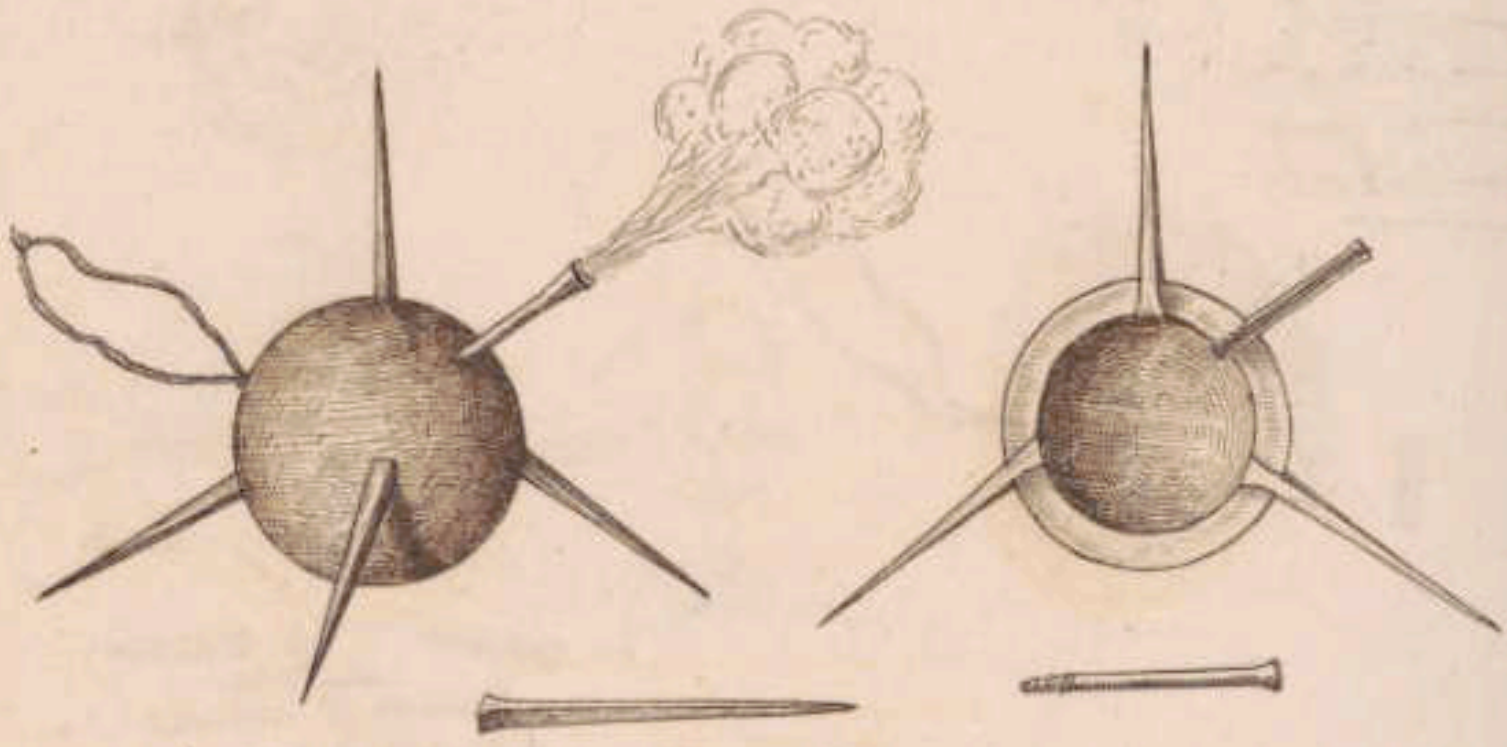
Autre grenade de Canebas.

Grenade à meme effeit plaine de charges de fer come de Sarquebuses. Ou pistollets.

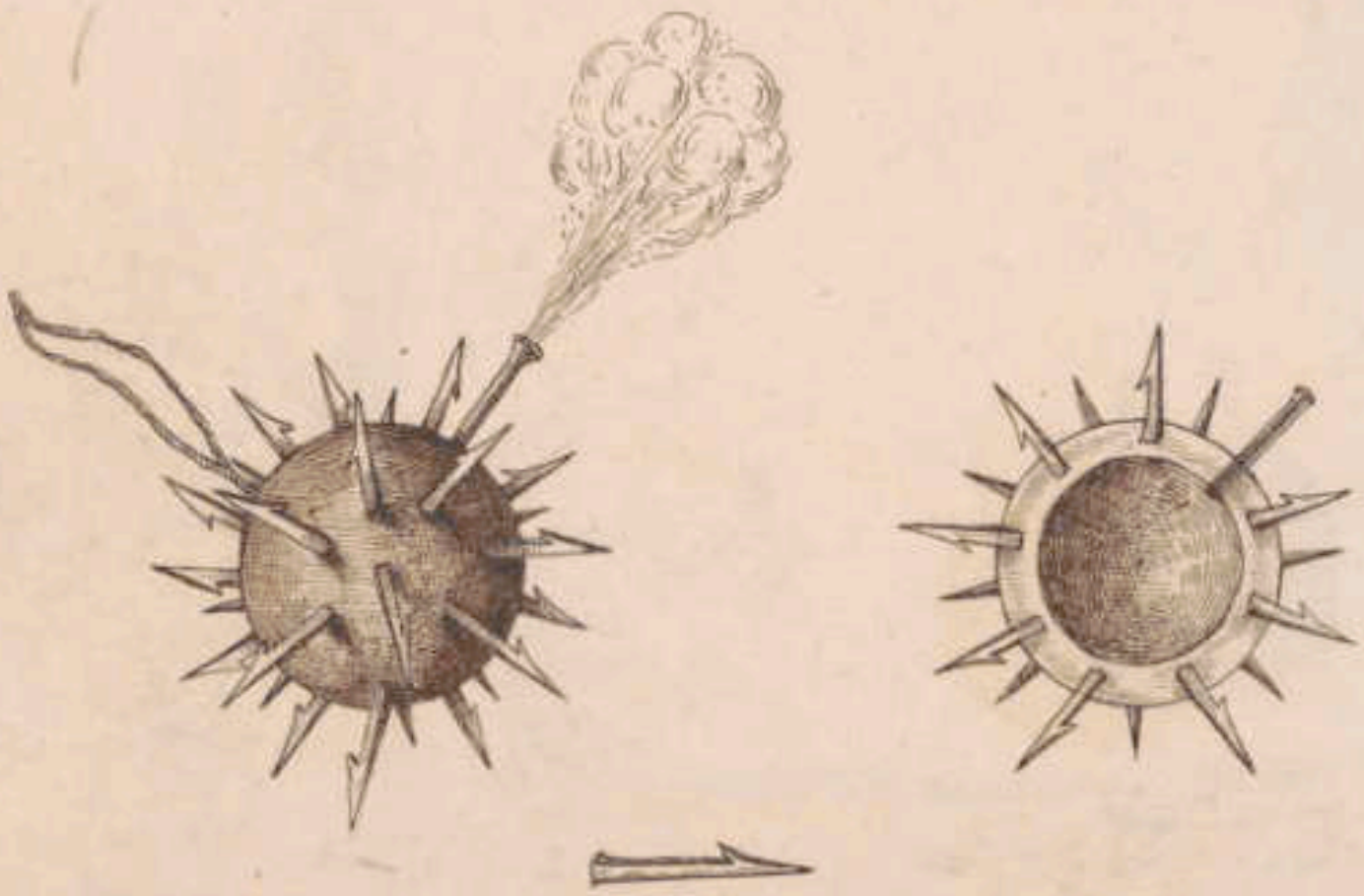


Grenadez,

A quatre pointes en facon de Attrappes pour s'enservir en Combats de mer ou sur fascinades d'aultant qu'a cee leurs pointes elles adherent a la matiere &.

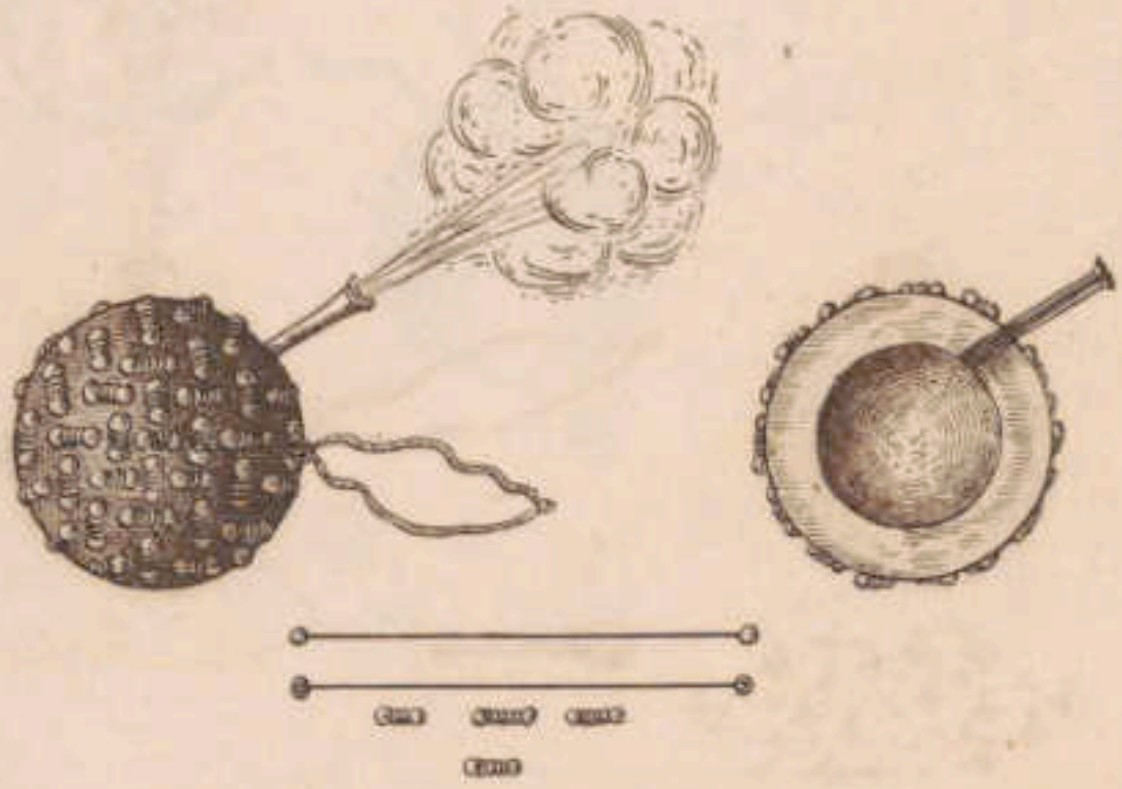


Grenadez a plusieurs crocez, a meme effet



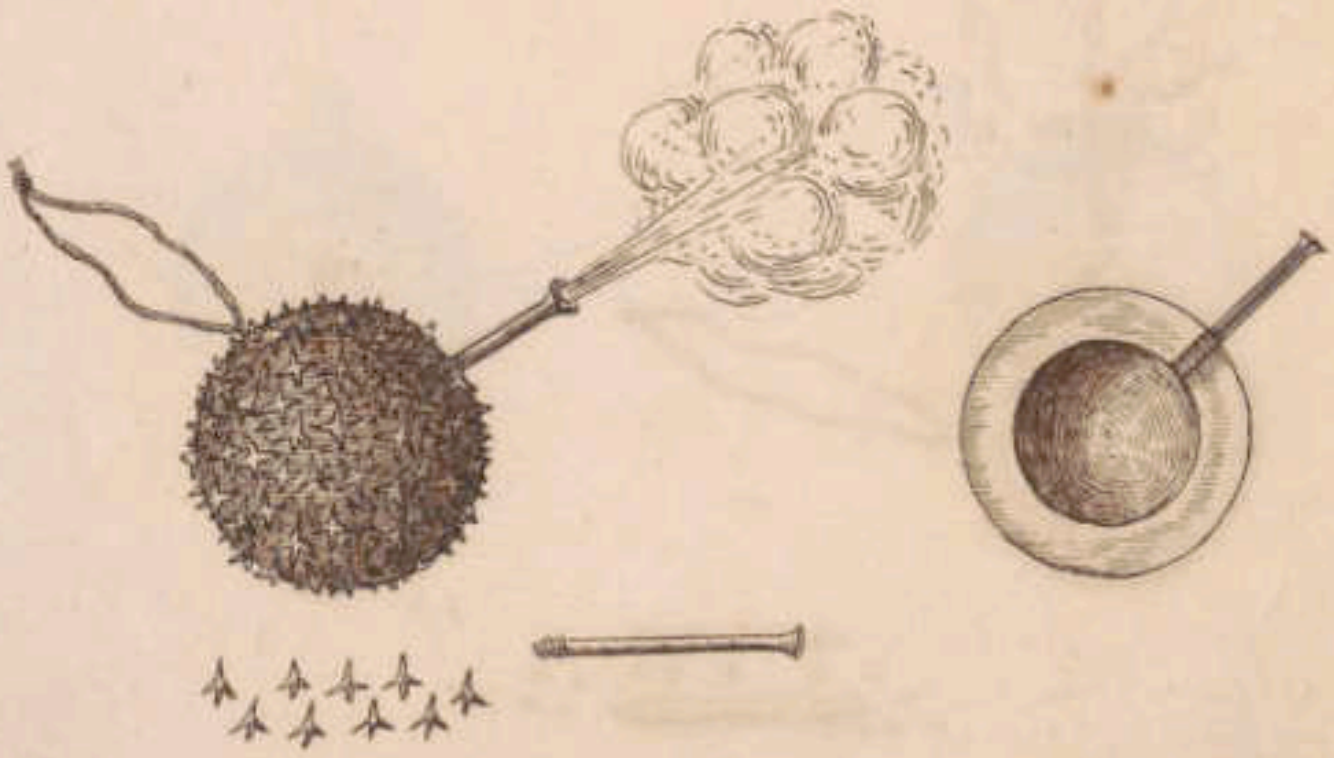
Grenade Armeez de Balles Ramees.

Et charge de poudre fine grainee.

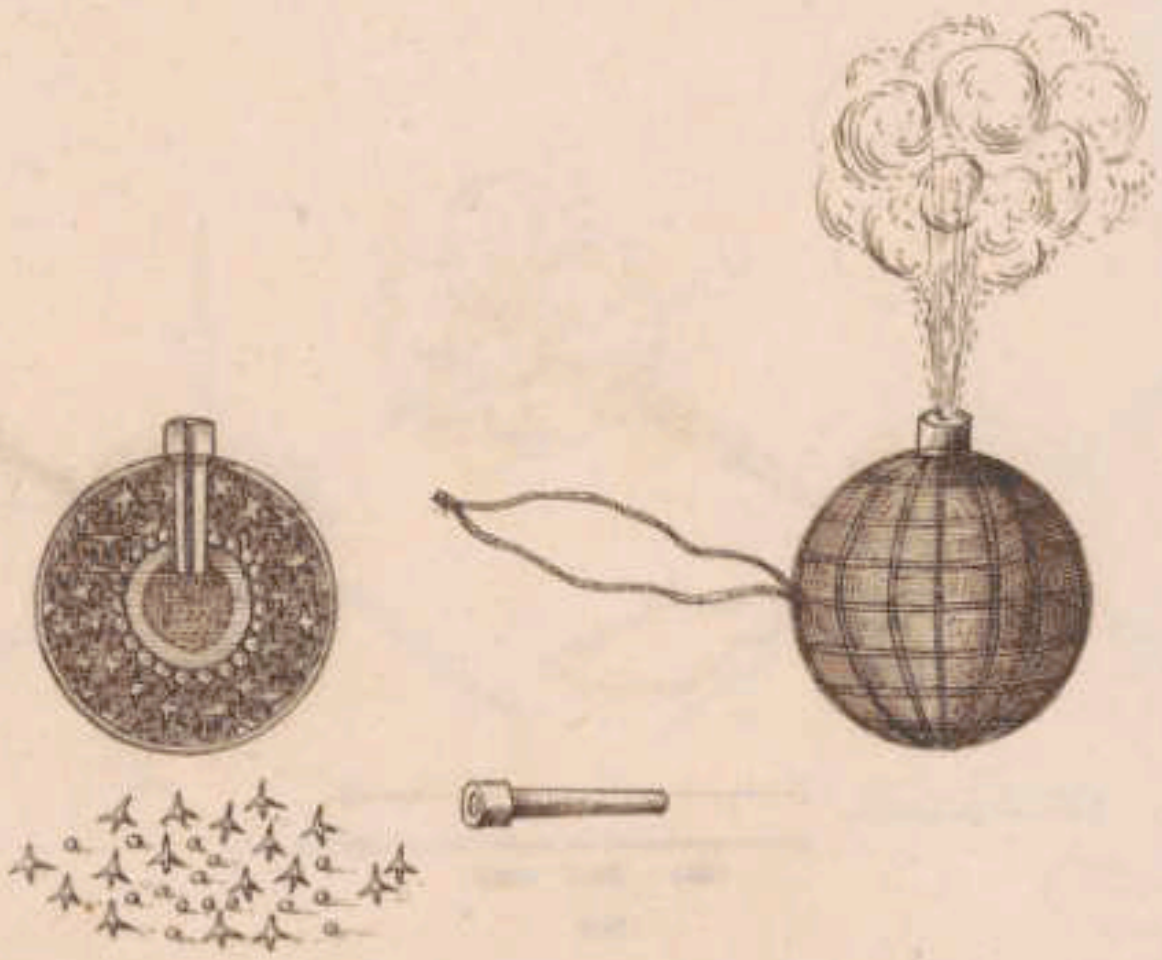


Grenade Armeez de Attrapes.

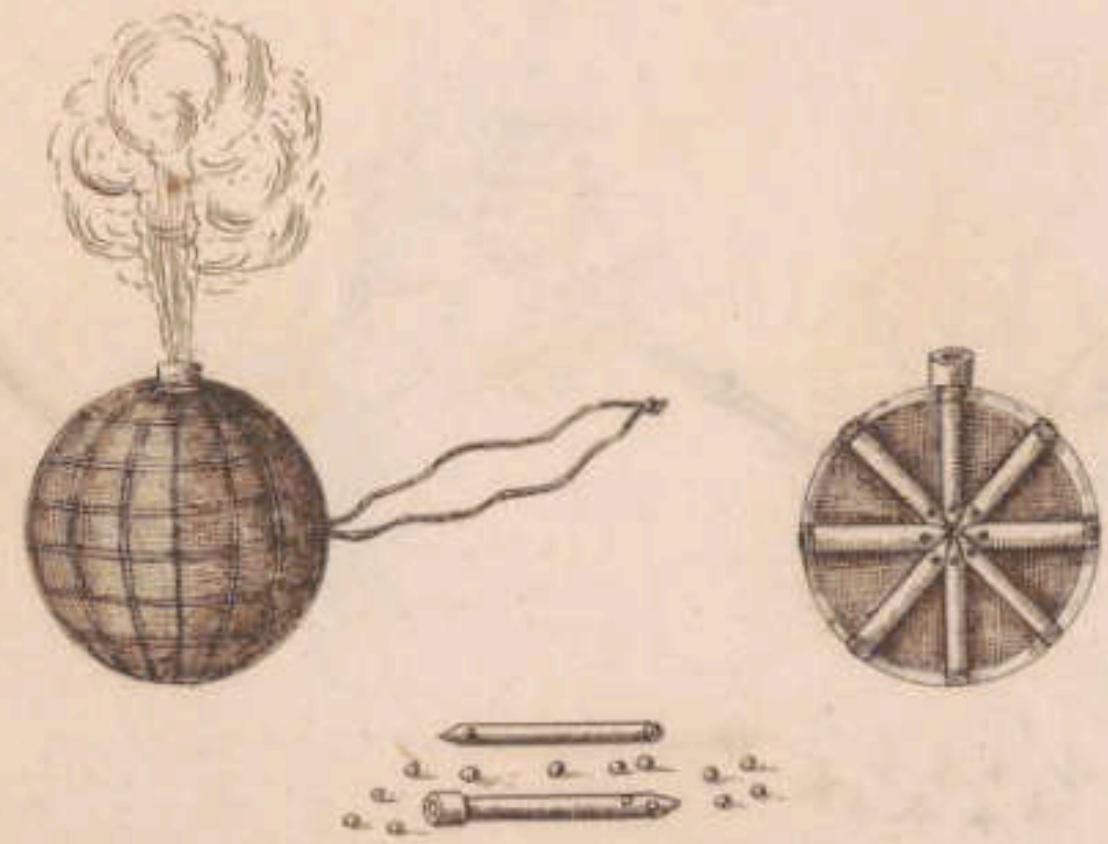
Et charge de poudre fine grainee.



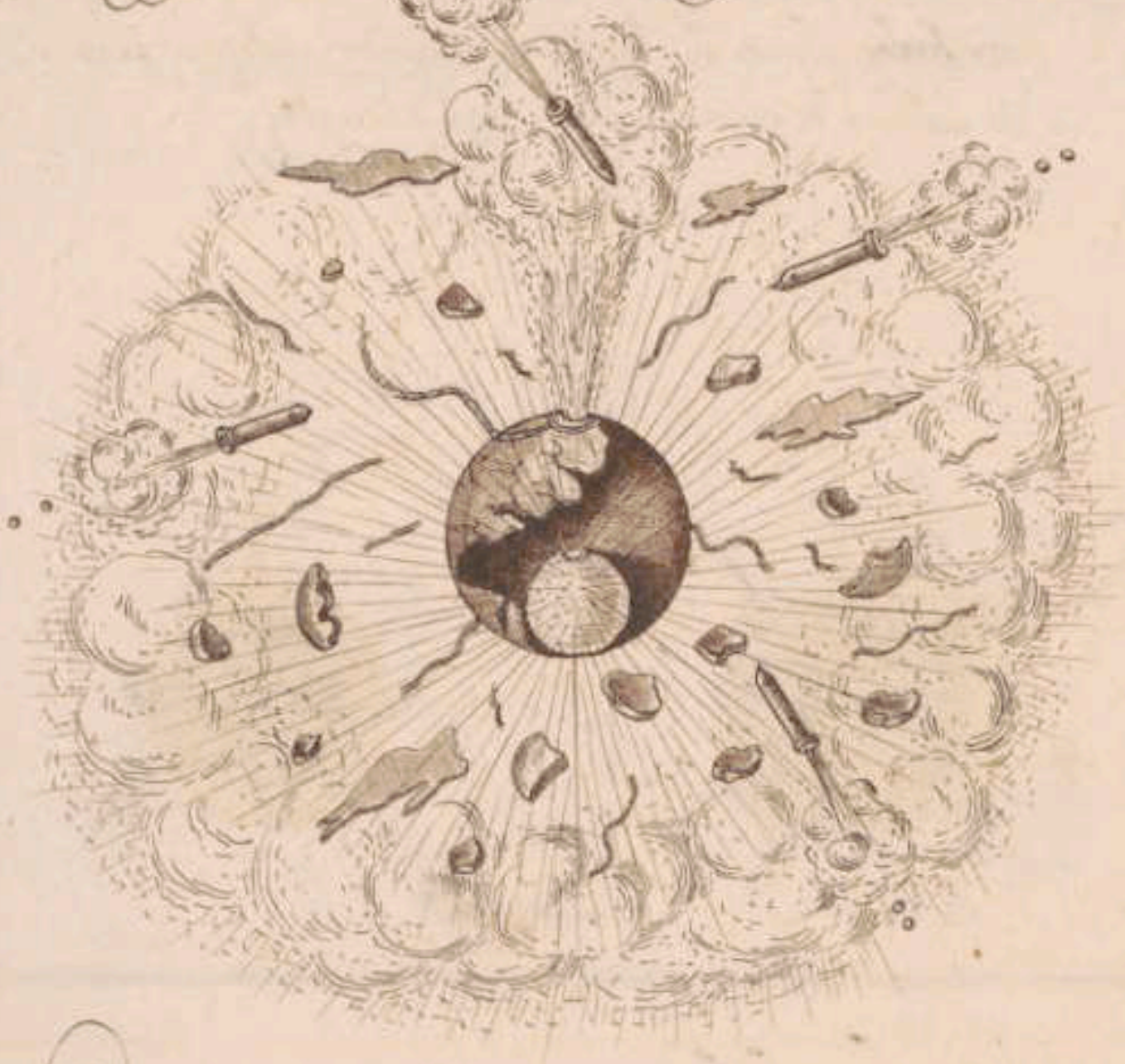
Grenadez, de Canebas comprennant vne petite grenade pleine de poudre et plusieurs balles à mosquets et attrappes entremellez de poudre fine grennee, propre à tirer auec le mortier.



Grenadez, de Canebas pleine de charges de Sarquebuz propre à tirer auec le mortier.

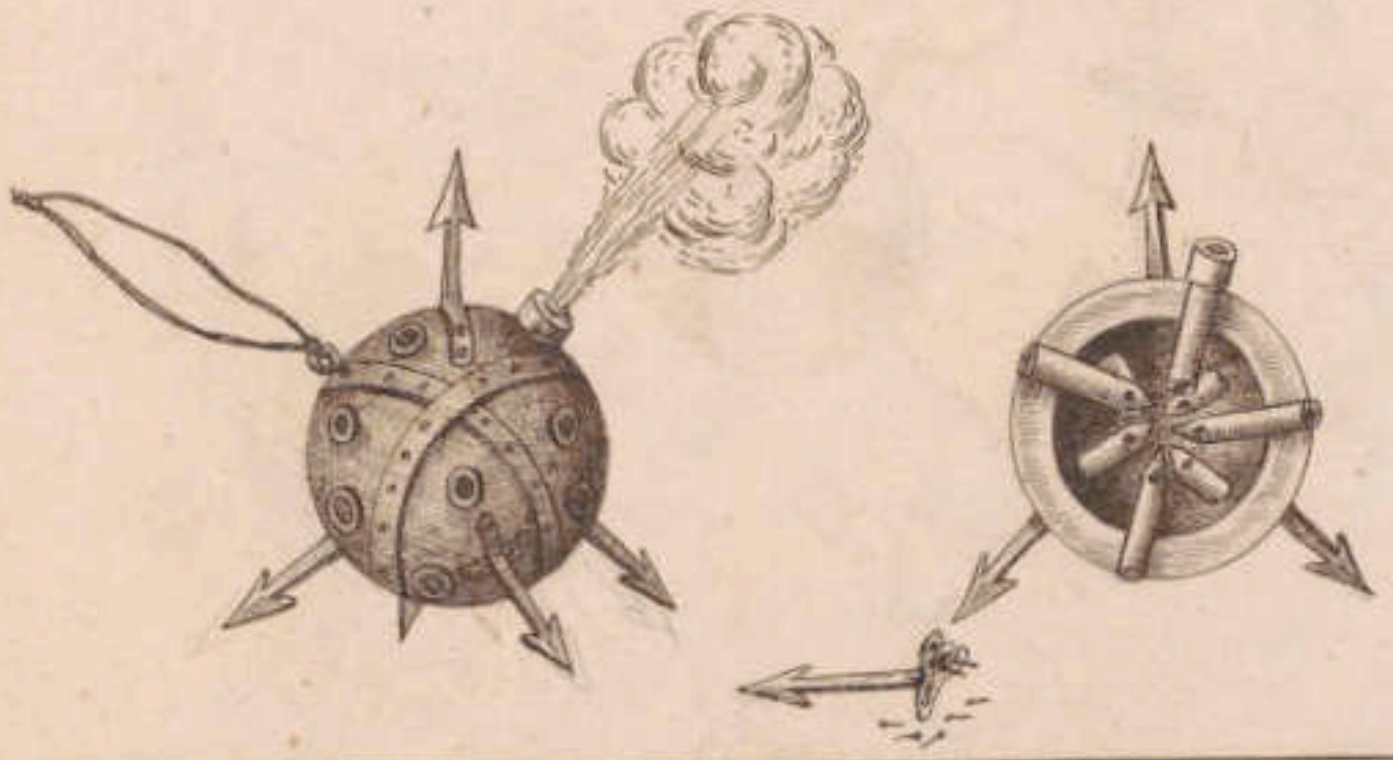


L'effet d'vne grenade

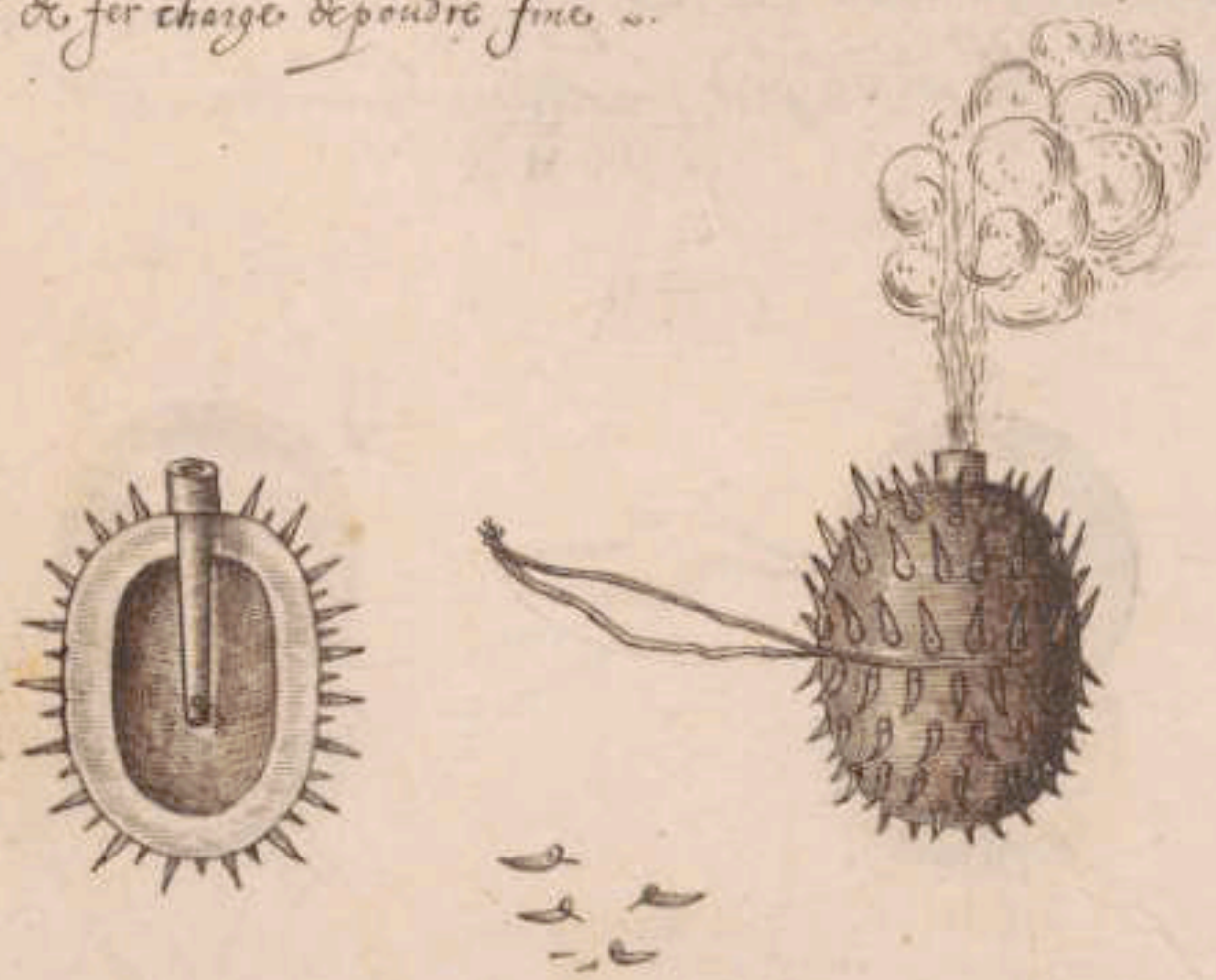


Grenade de fauchas comprenant vne moyenne grenade de cuyure et large depetit canons d'arquebuz remply de poudre fine laquelle grenade est propre pour tirer auec le mortier.

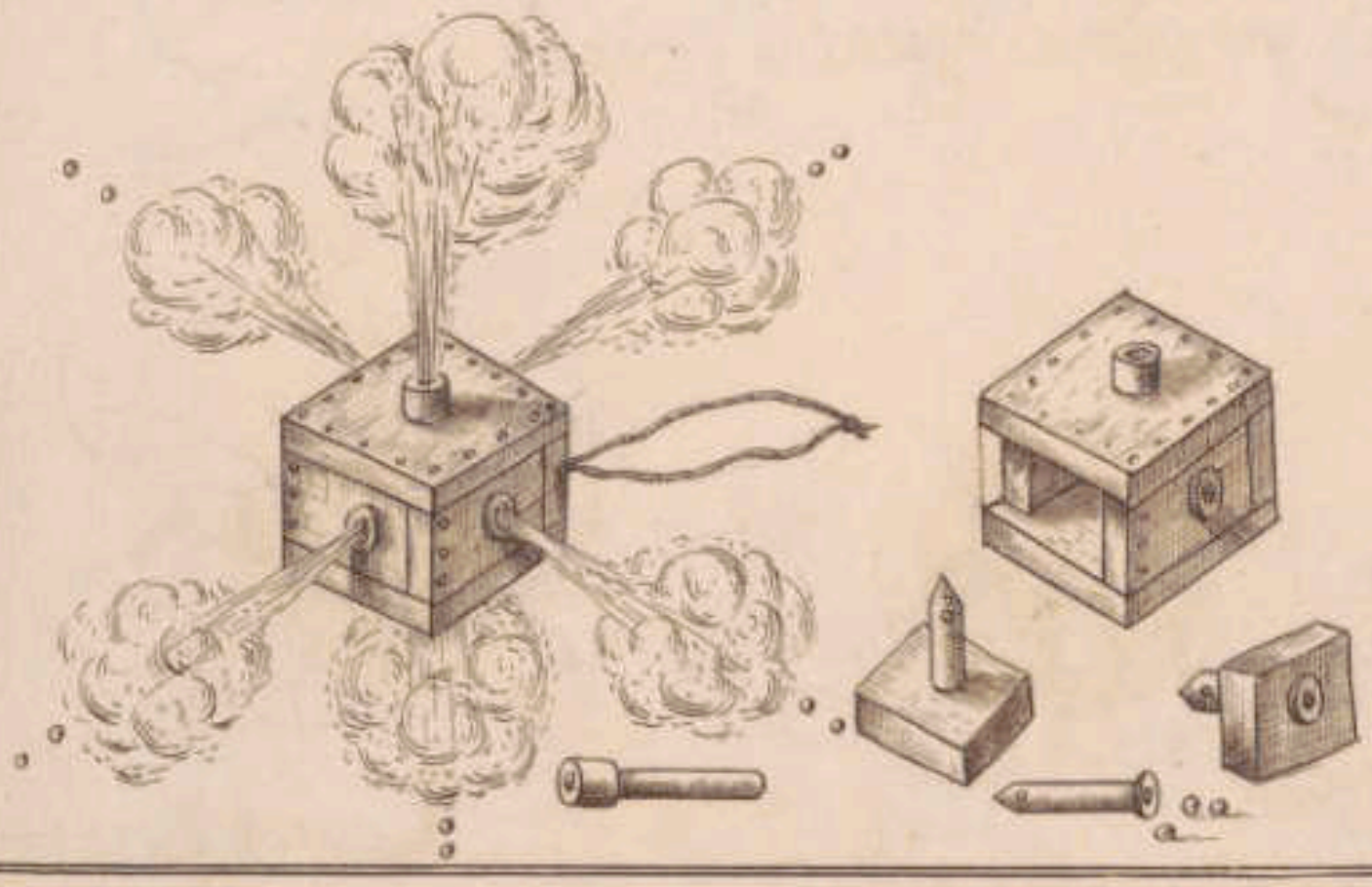
Grenade de bois, tournée et cerclée de fer à cinq ~~sixe~~ cotez ~~sixe Angles~~ pleine de Dagues de Harquebuz propre pour s'en servir en naüeres de guerre ou en temps d'assaultz.



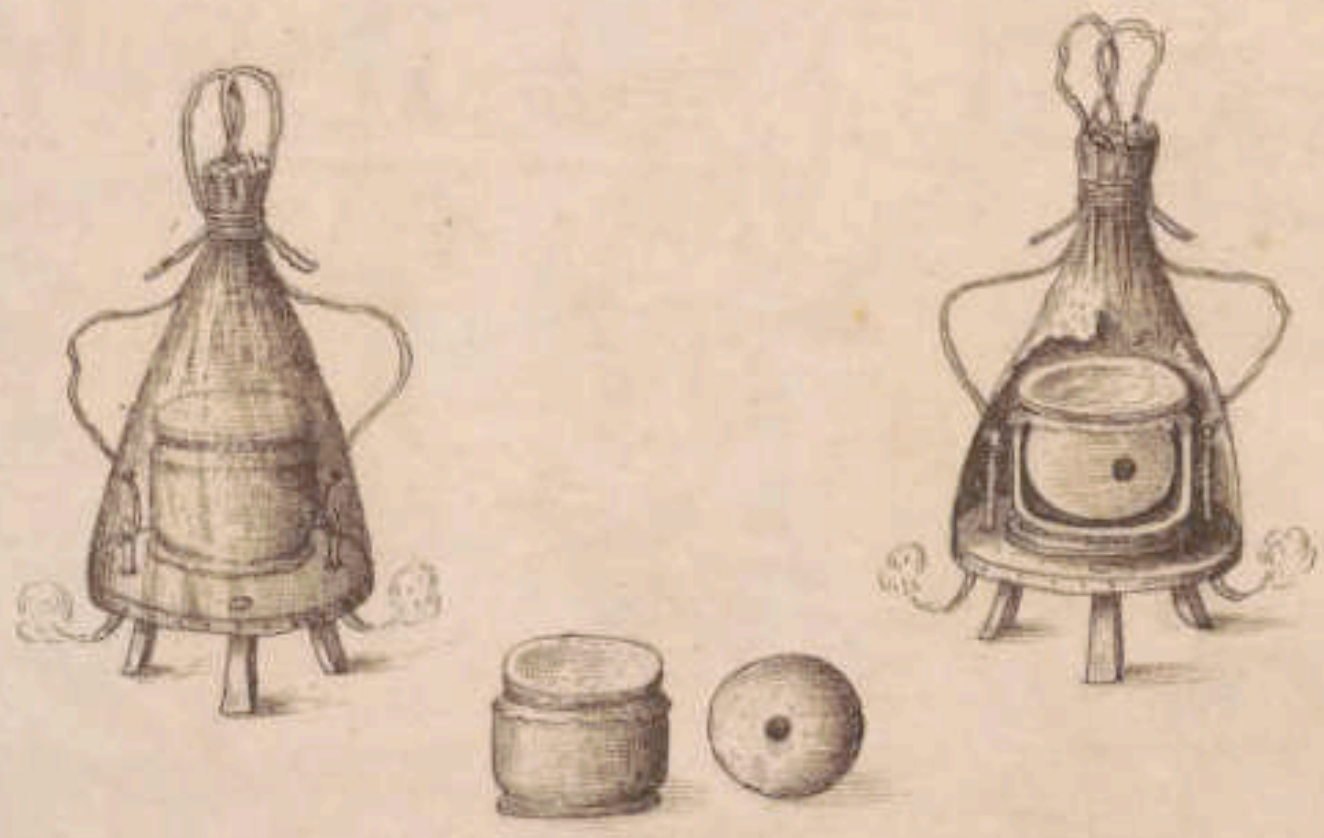
Grenade de bois de forme d'un limon plaine de languettes de fer charge de poudre fine.



Cassettez, ou coffretz de bois pleines de charges de Sarguebuz de fer, lesquelles coffretz puis apres doibt estre chargez et Remplis de poudre fine grenee.



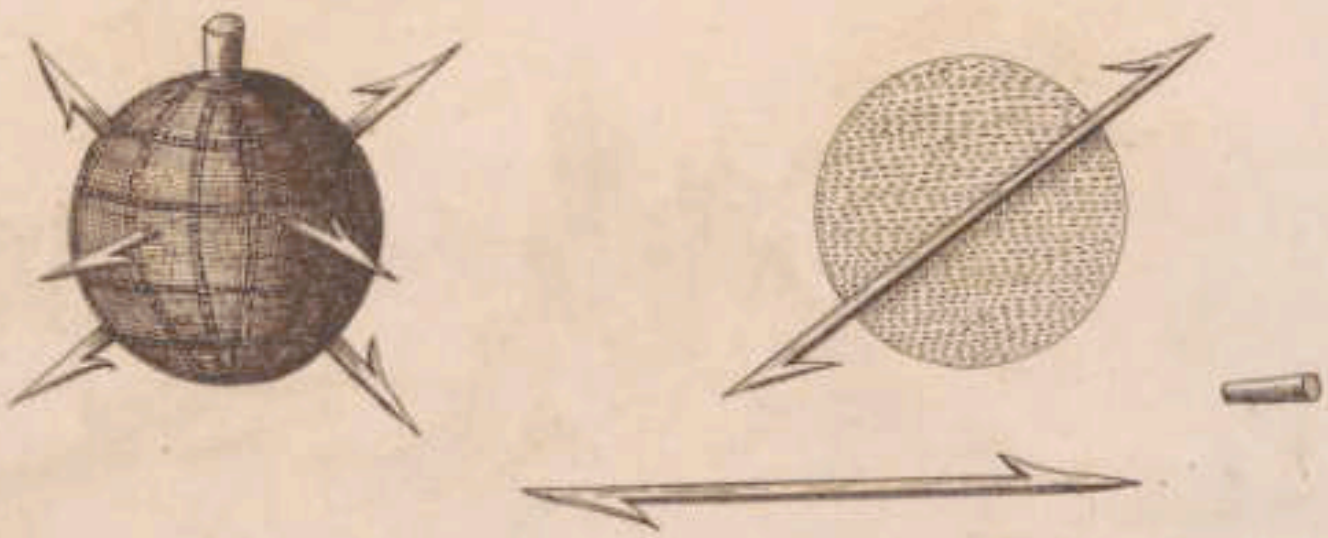
Bourses de Canebas. Aueq grenadez de cuyure dans d'peties potz de terre remplis de poudre fine, propres a porter au bras aux occasions des assaultz ou Rencontres.



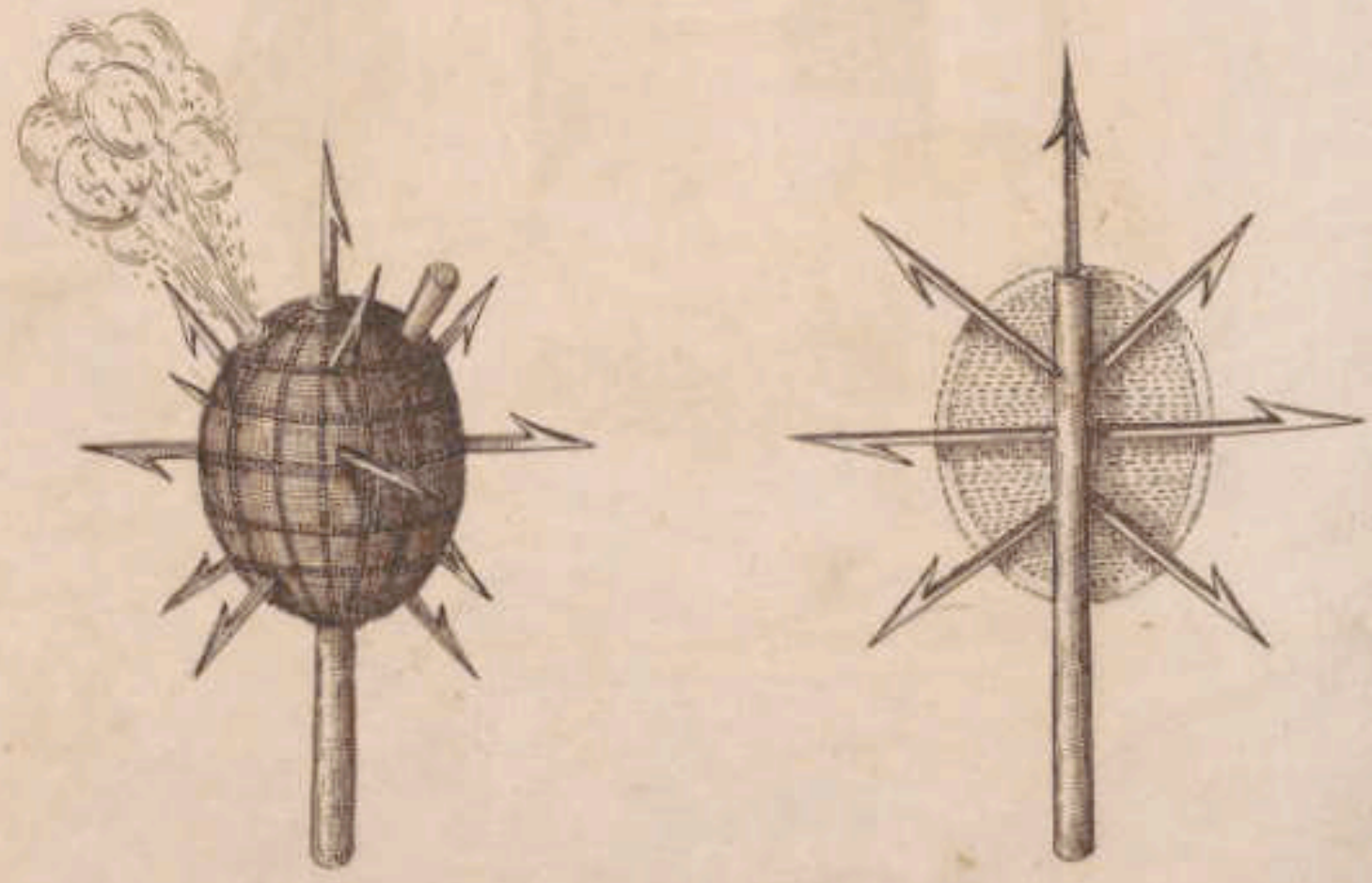
Representation de la maniere qui suse a dancer les grenades.

La forme de la Caudiere propre à pousser toutes sortes de Bombes, grenadez, Balles a feu, Cercles, et aultres artifices semblables.

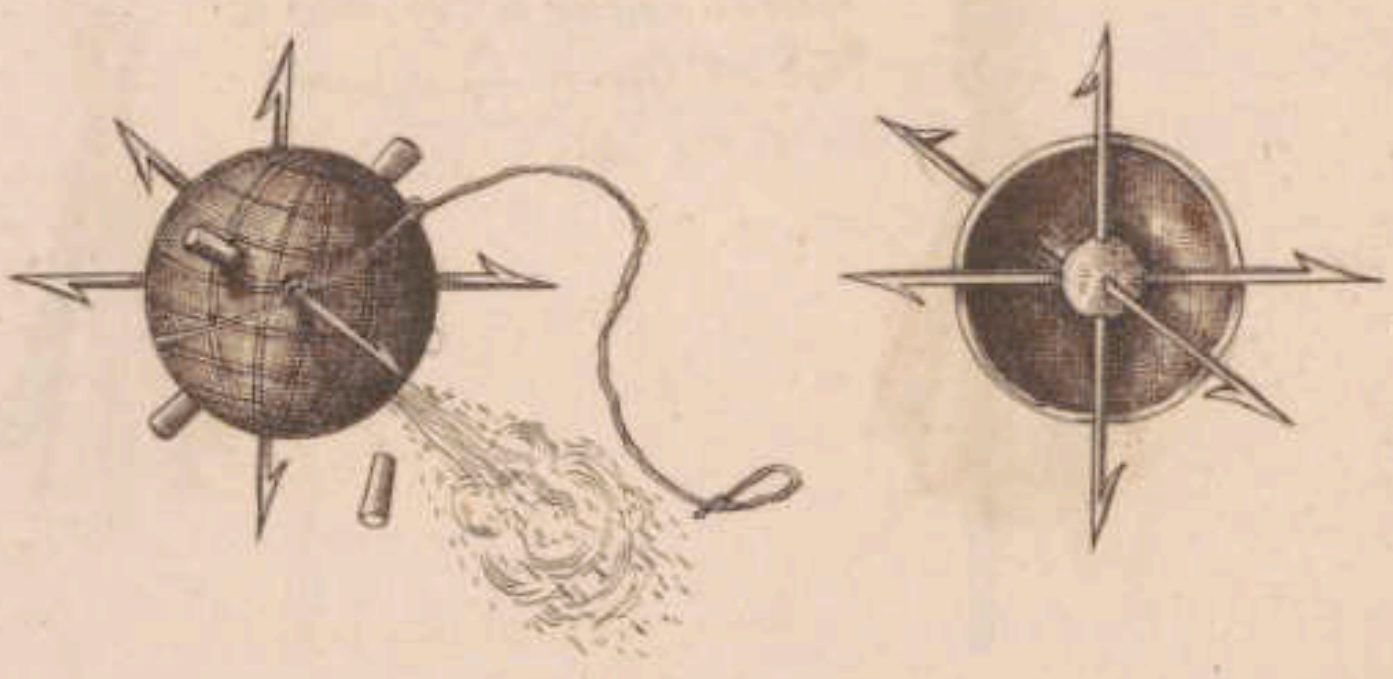
Balles, a feu propres ~~ajetter~~ a la mãn dans fayseynades gabbienedes et ponts, bayues etc.



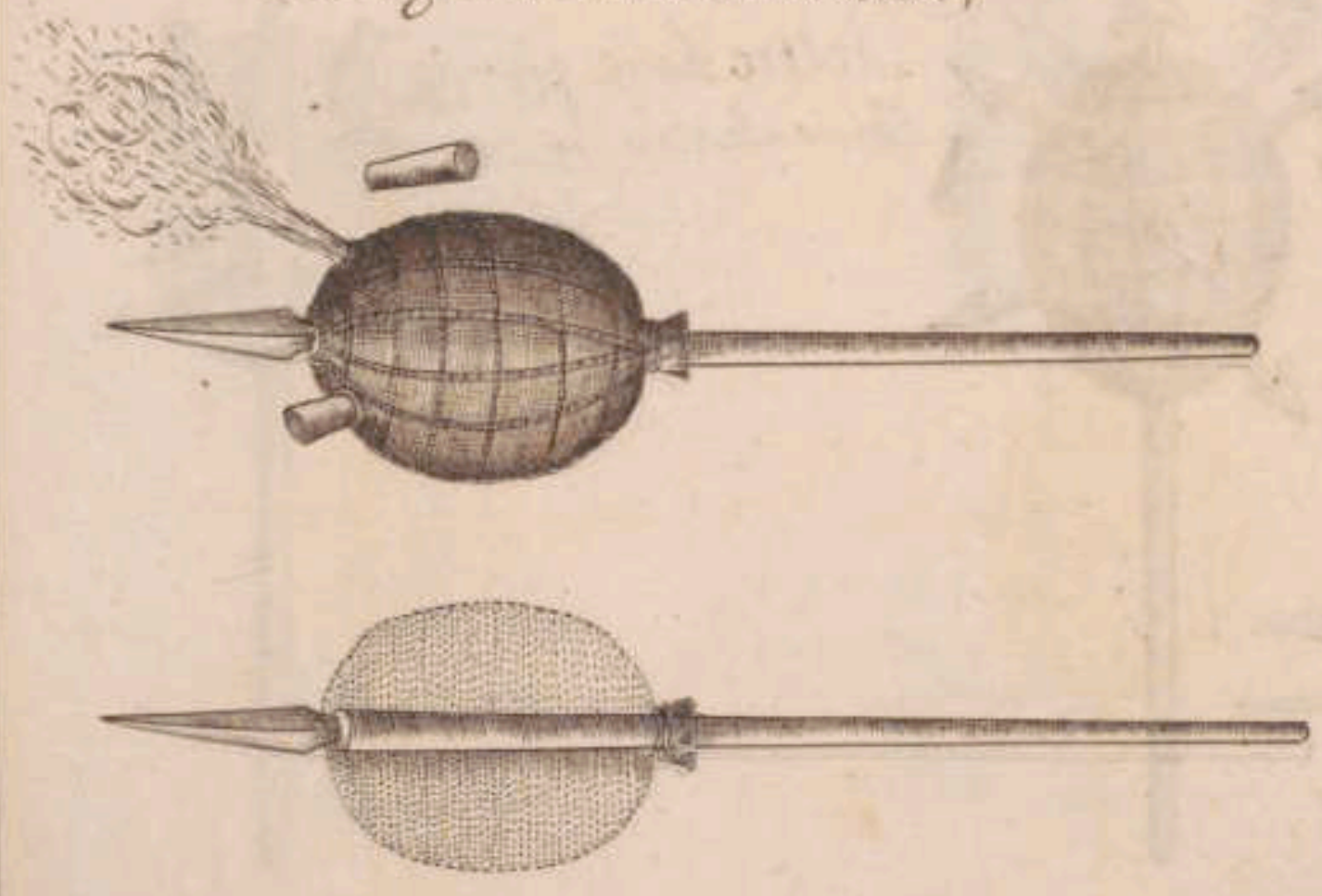
Autre Balle a mesme effect.

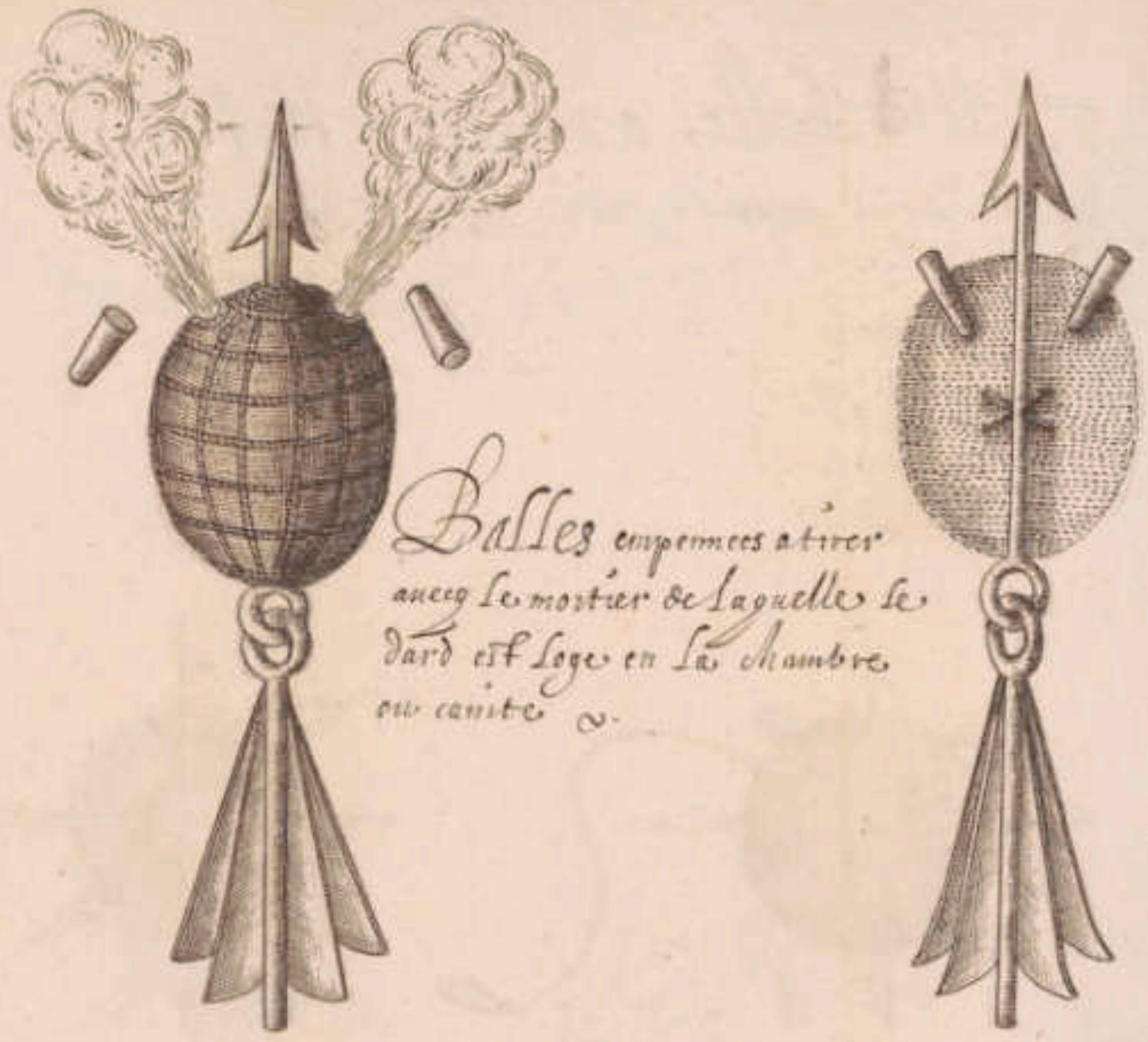


Aultre Balle, a mesme effet,
Et de la mesme composition come les Aultres.

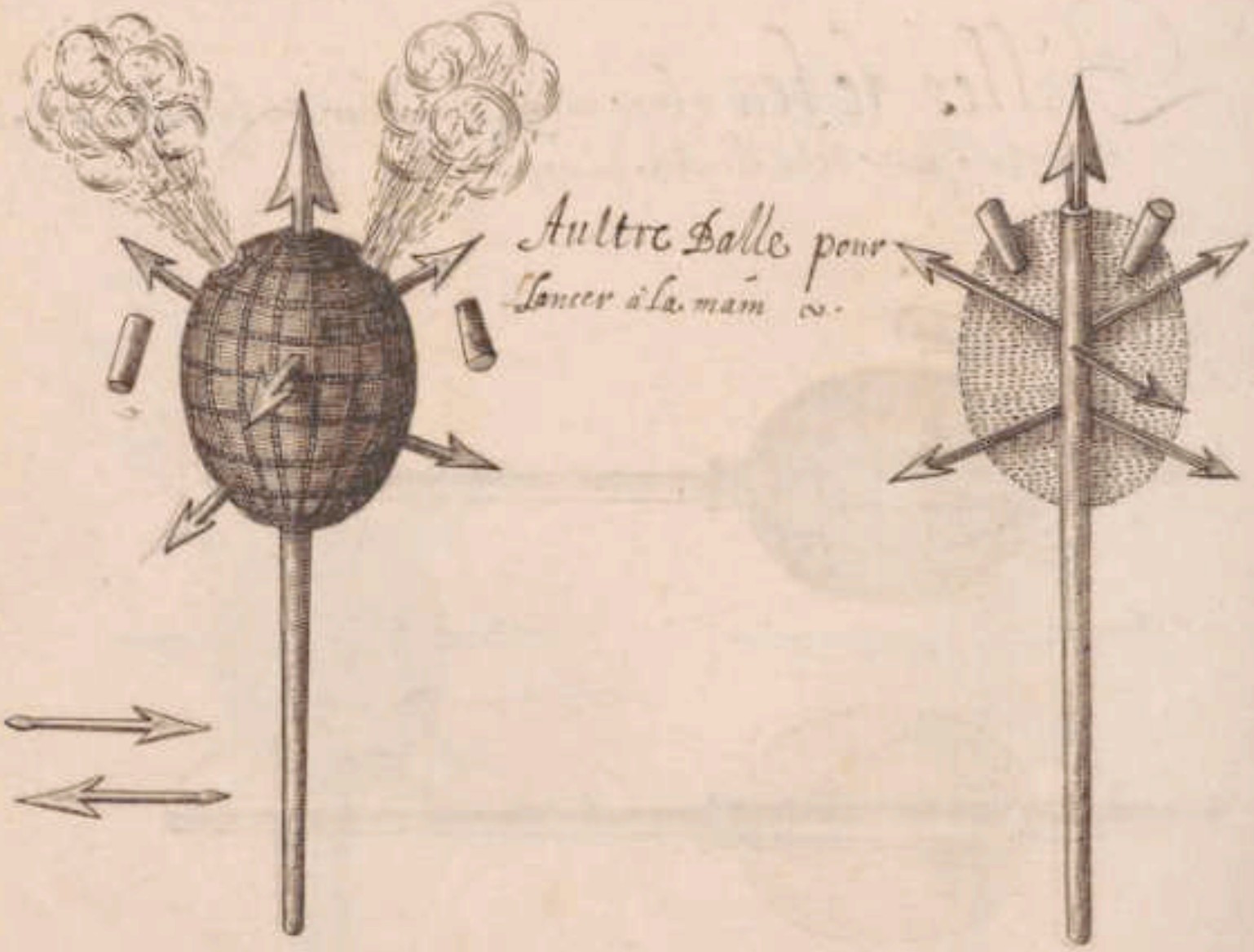


Balles de feu a tirer avecq le mortier de lagrelle le dard est de la longueur de la chambre du mortier,





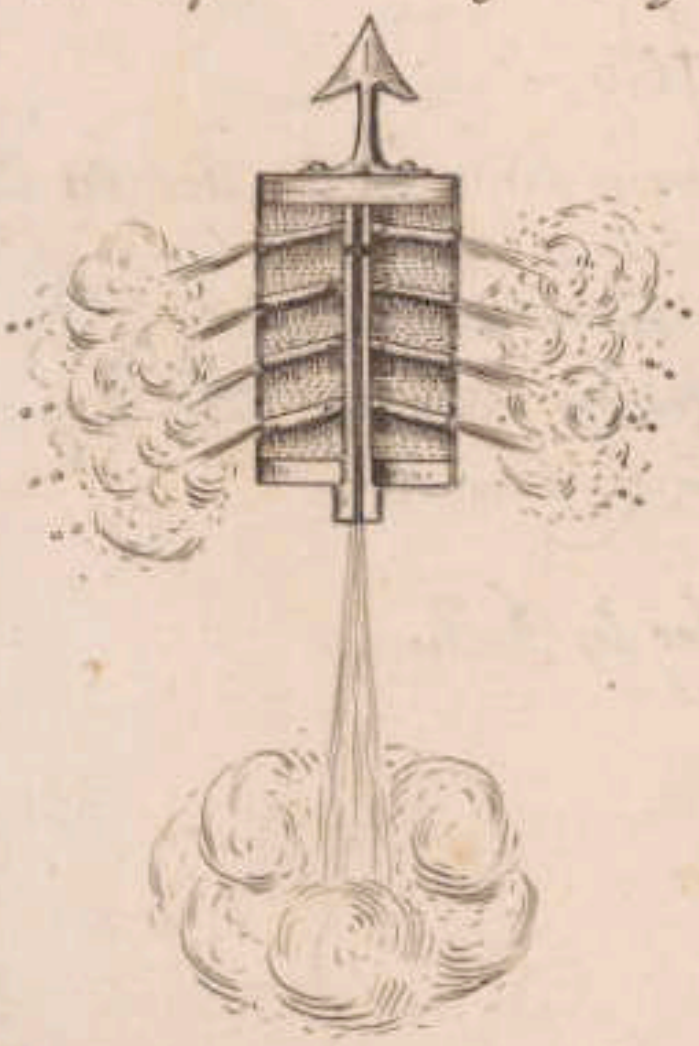
Balles empennees a tirer
aueg le mortier de laquelle le
dard est loge en la chambre
ou canite &.

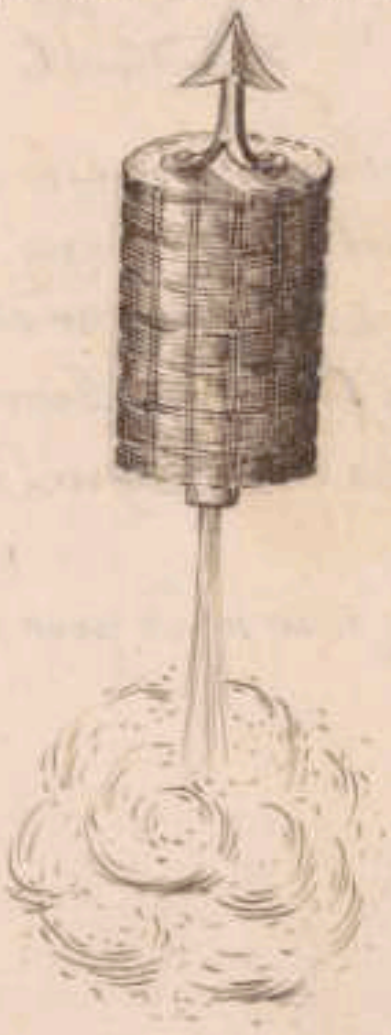


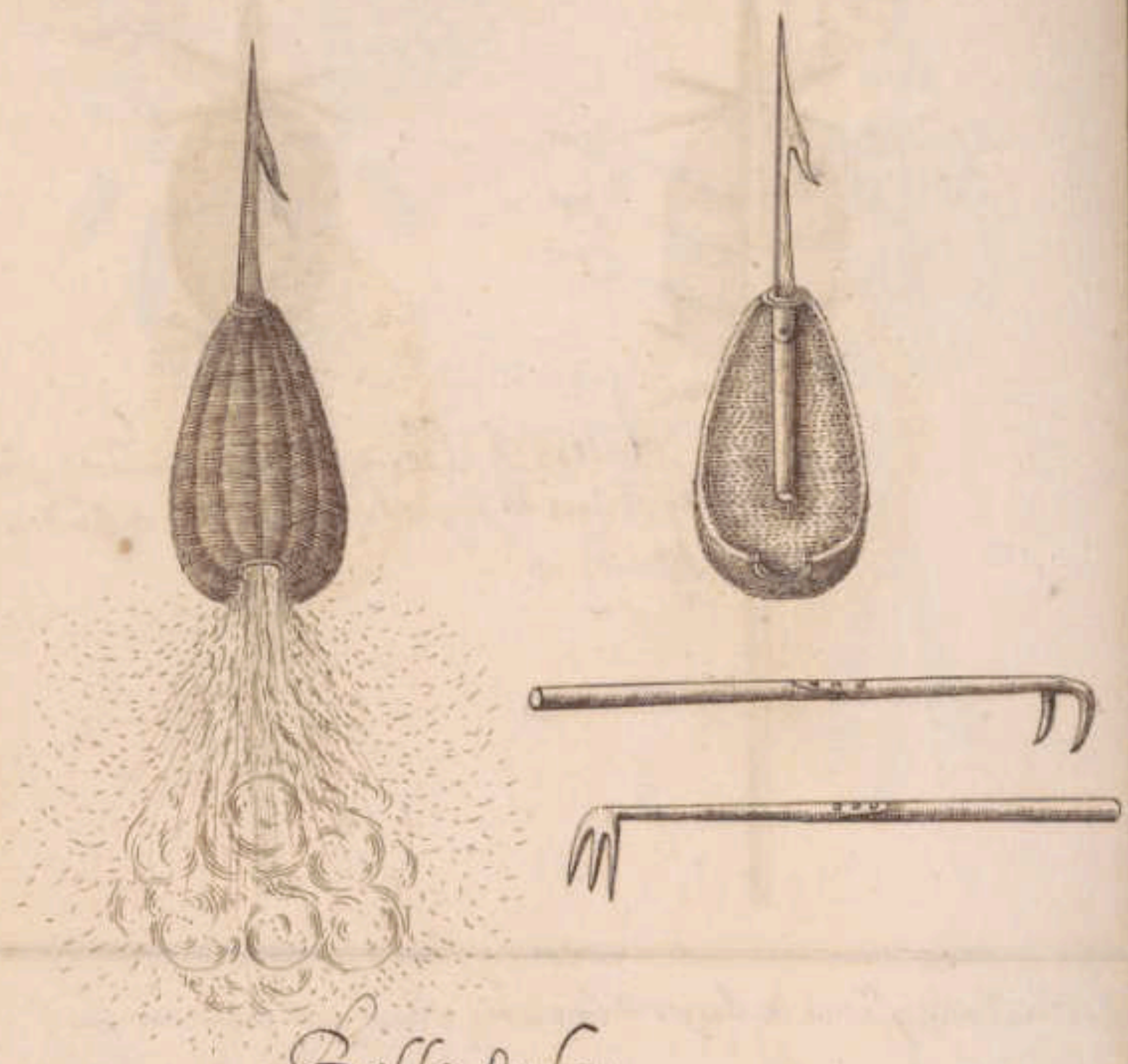
Aultre Balle pour
lancer à la main &.

Aultre Balle, a facon de maillets pleines de charges de Sarguebuz propre pour desfendre les Assaultz ~.

Aultres Balles pleines de Sarges & Sarguebuz a tirer auec le mortier ~.



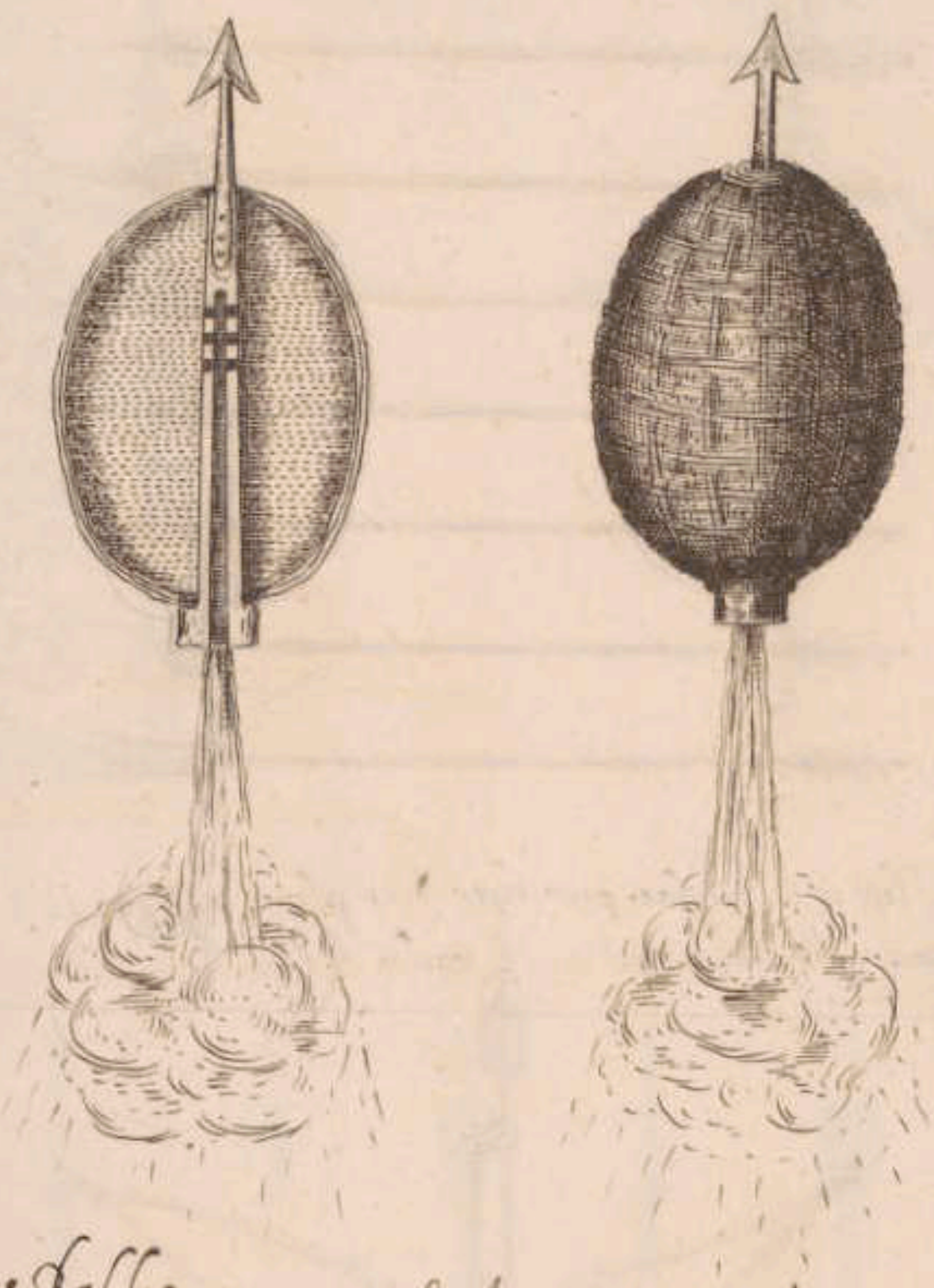




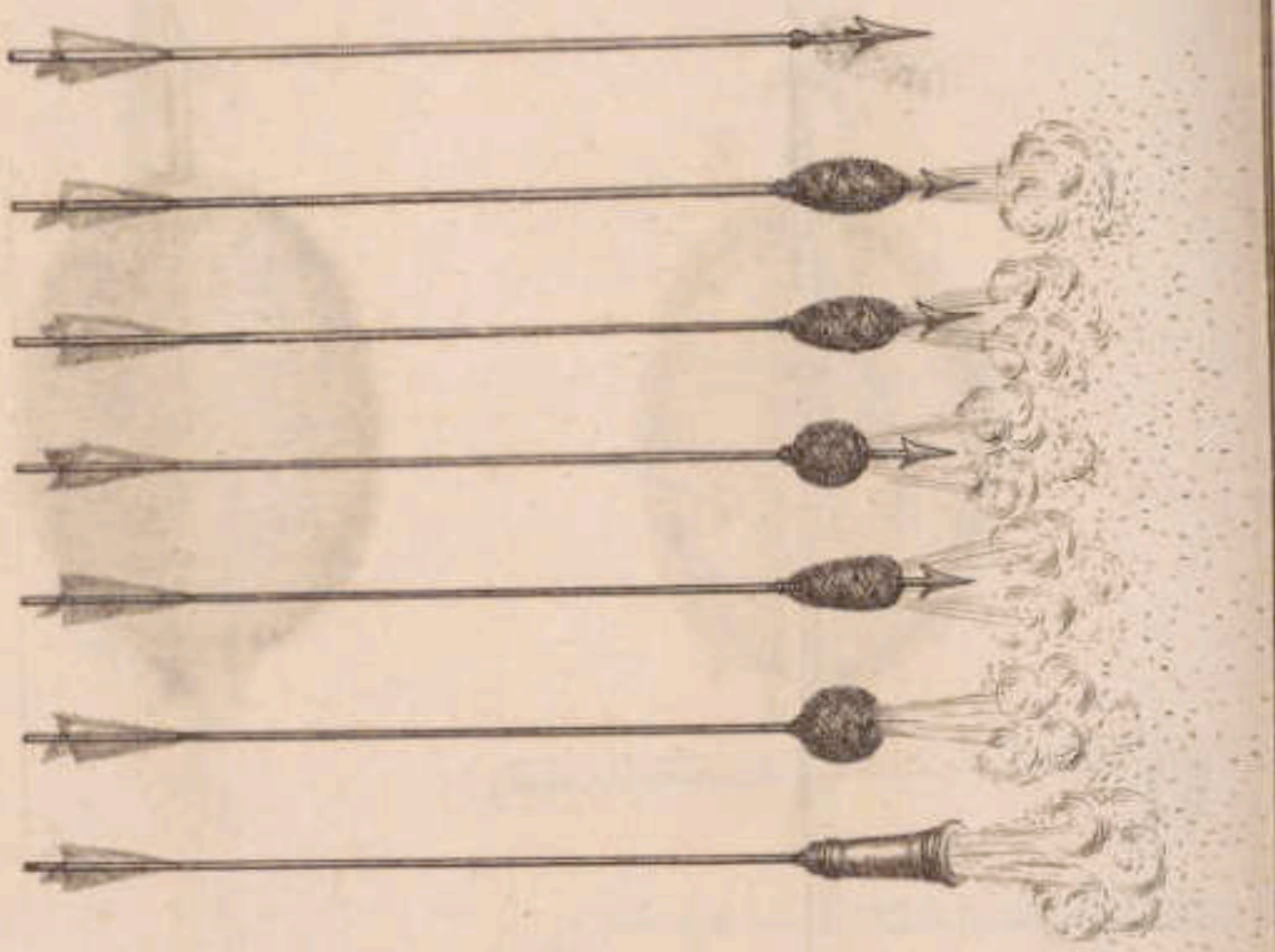
Balle de feu.

En forme de melons a tirer avec mortiers et Artillerie, avec lesquelles un Ingenieur des Sollandois assiegez dans Ostende, meit le feu en la grande plattaforme des assiegeantes et en la digue du Comte de Bulgney. Laquelle Balle doibt estre faict en une Bourse de Canebas pris apres l'asse de petits Cordaiges pardessus en facon que s'en faict les mandes.

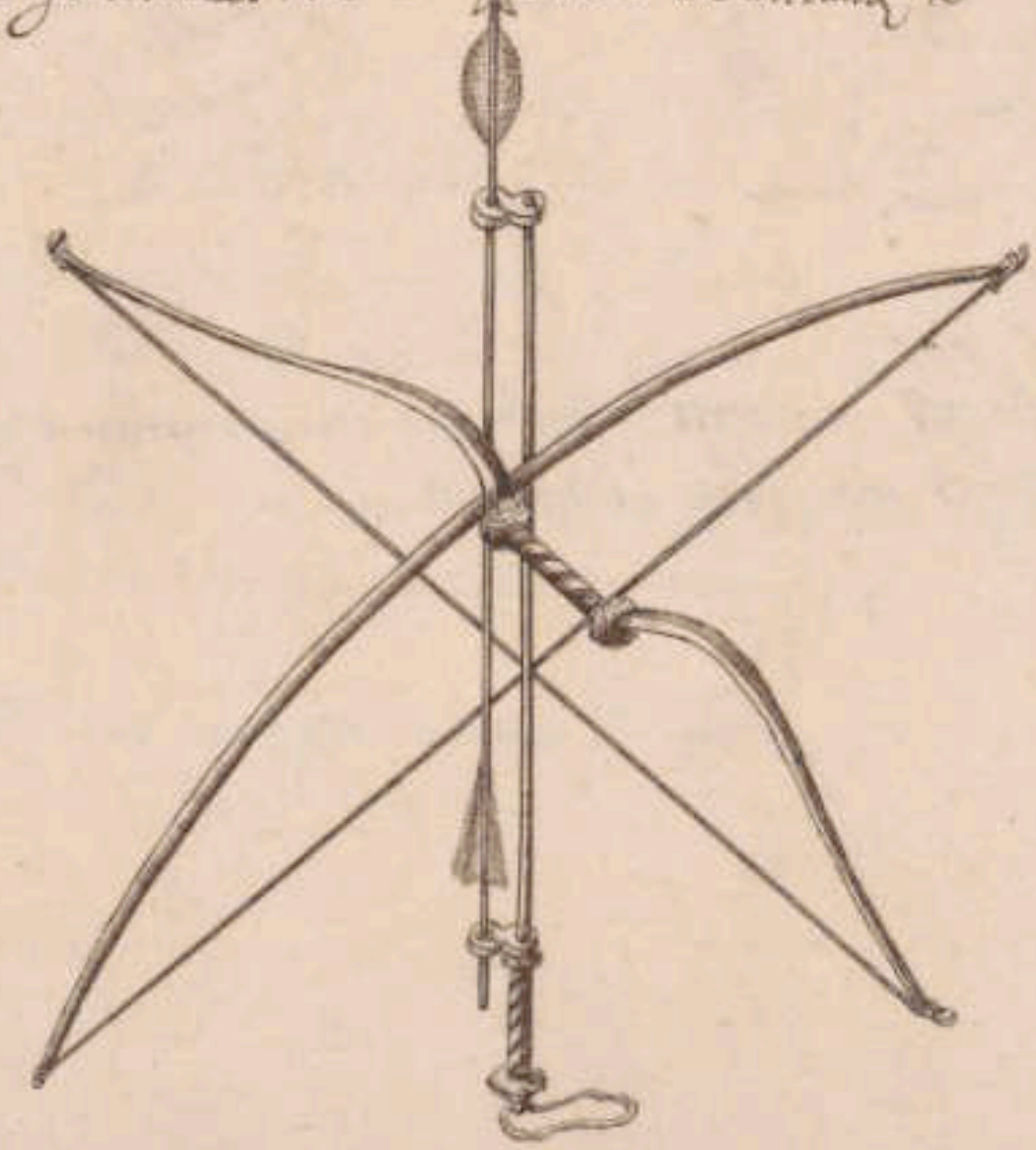
Crochets desquelz on se servit pour arracher les Balles.

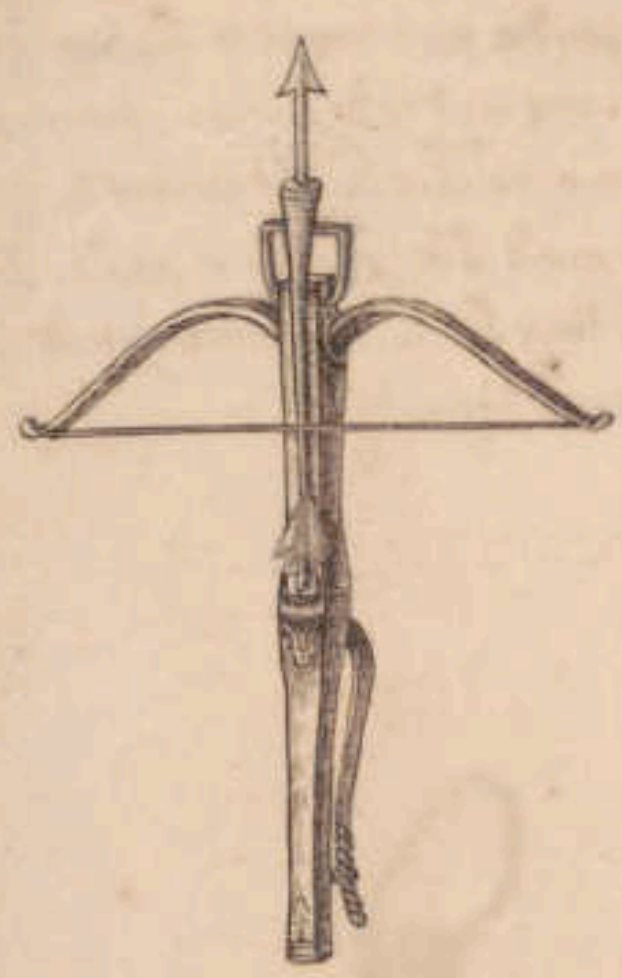


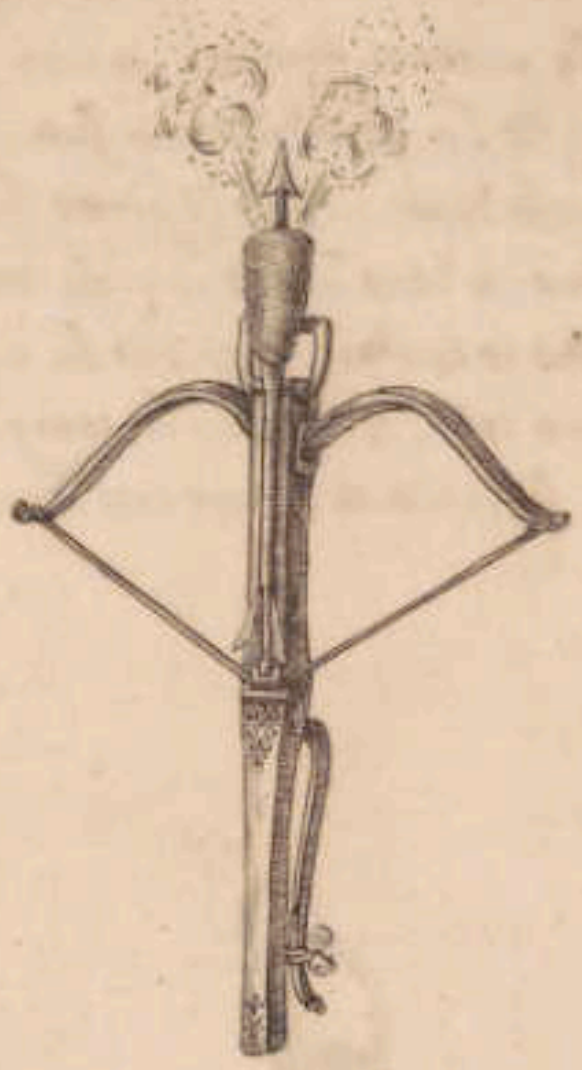
Autres Balles, couuertes de Canebas et étoupes poussees pour tirer auec mortiers ou Artillerie, soit Canon ou demy Canon &c.

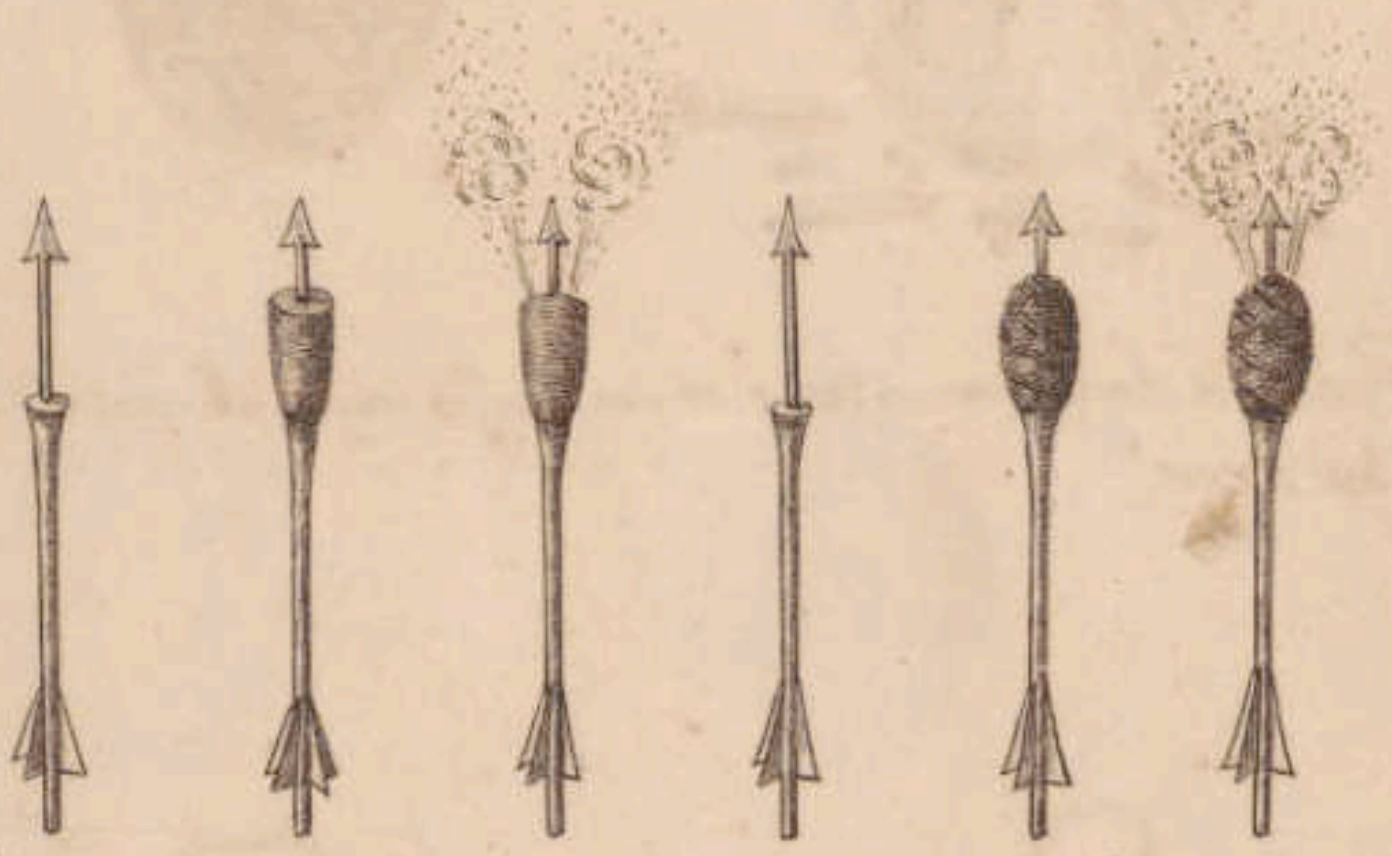


Arcs et fleches de artifice pour tirer dans places assiegees ou y a toitz de paille, dans gabbionades, ou - voiles de batteaux.







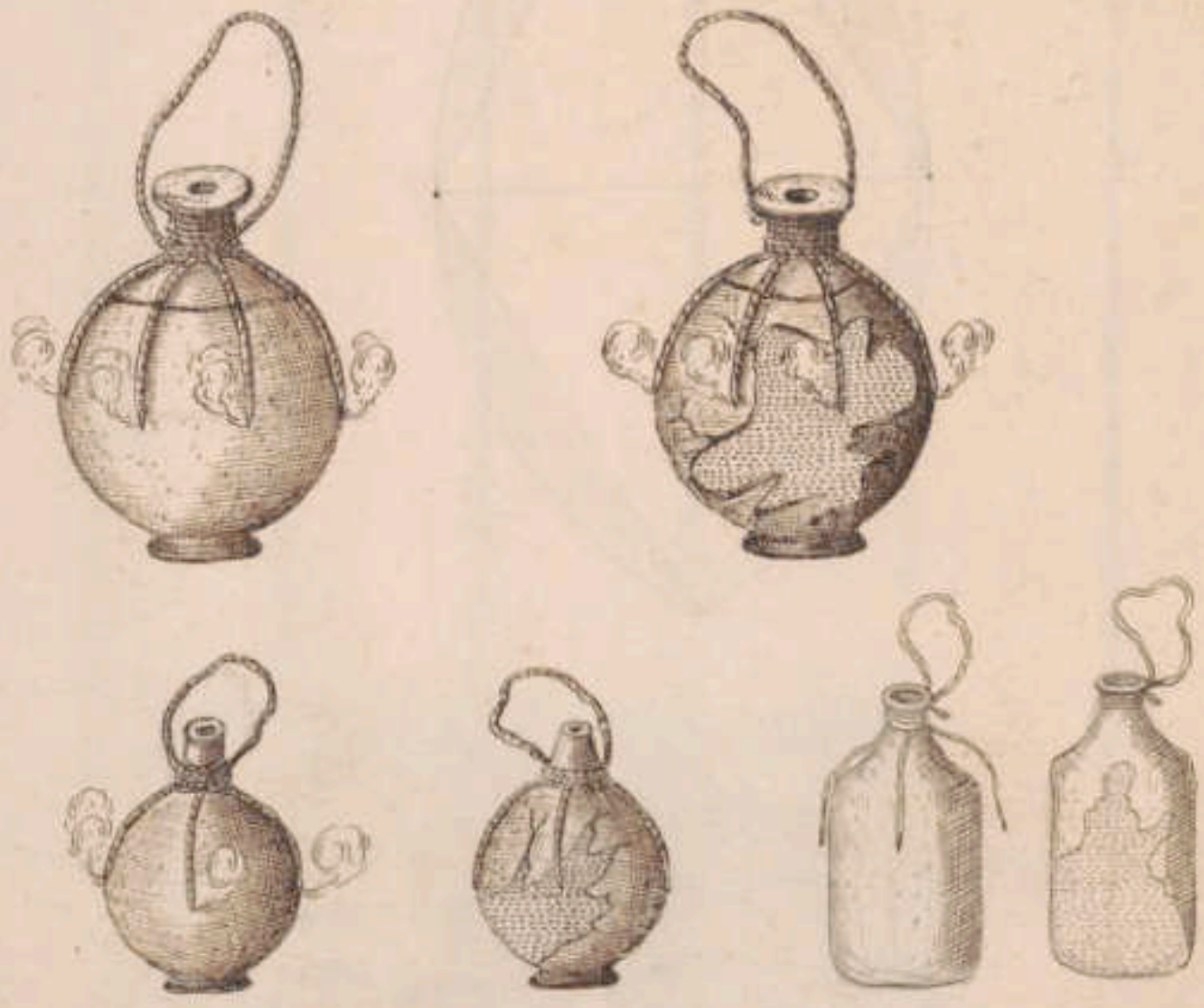


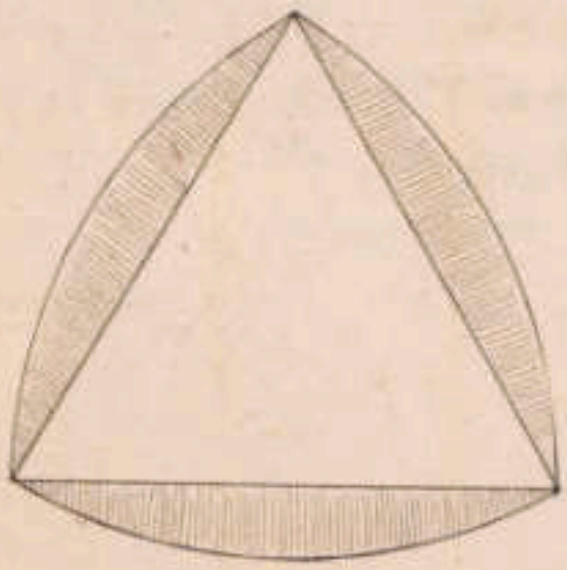
Arbelestes et garretz a mesme effect, et doibt estre charge de la
mesme mixtion que sont charge les Balles de feu, et pms apres bien
cordé, et emmelope des etoupes, et poisse.

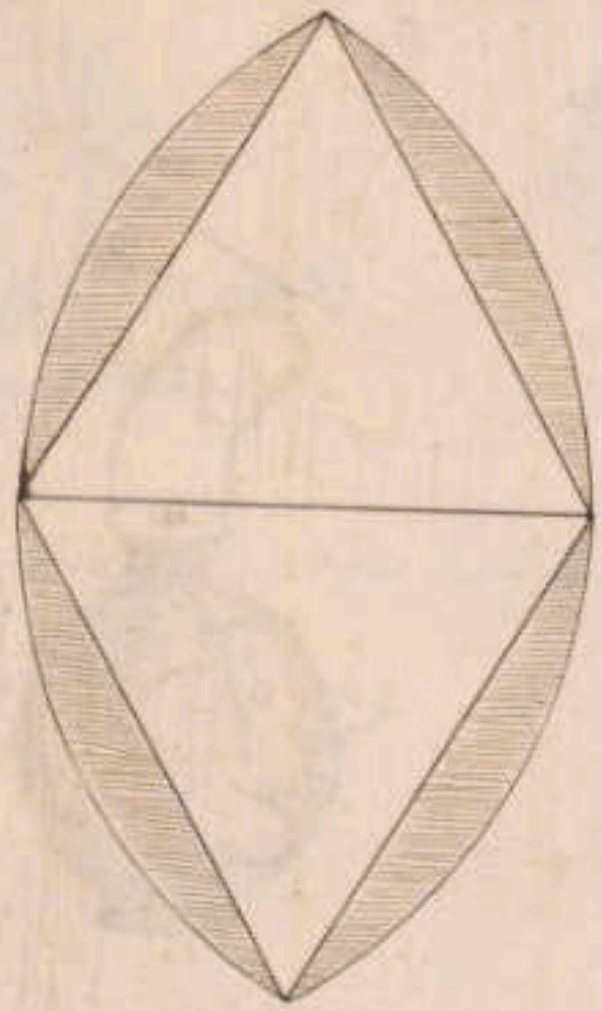
Pot à feu, de terre cuitte, de l'epesseur d'un felippe duquel la forme se voit en la presente feuille, se met poudre iusques au $\frac{1}{2}$, puis pistollets darge et acheuez de l'en plier de poudre fine, en apres prendre un morceau de canebas, pour serrer la gueule du pot, et lie de grosses fiselles, en apres mettre du cimeau, ceine en six bouts pendue, en dehors iusques au milieu et lors auec une cuiller laisser tomber du pee sur les cordes et canebas, et non sur le cimeau, et quand l'on s'en veut seruir, l'on met le feu a tous ses bouts du cimeau que bulera demy heure, premiere que son dette ses pots, lesquelles se dettent auec la mèm. en tems d'assaultz.

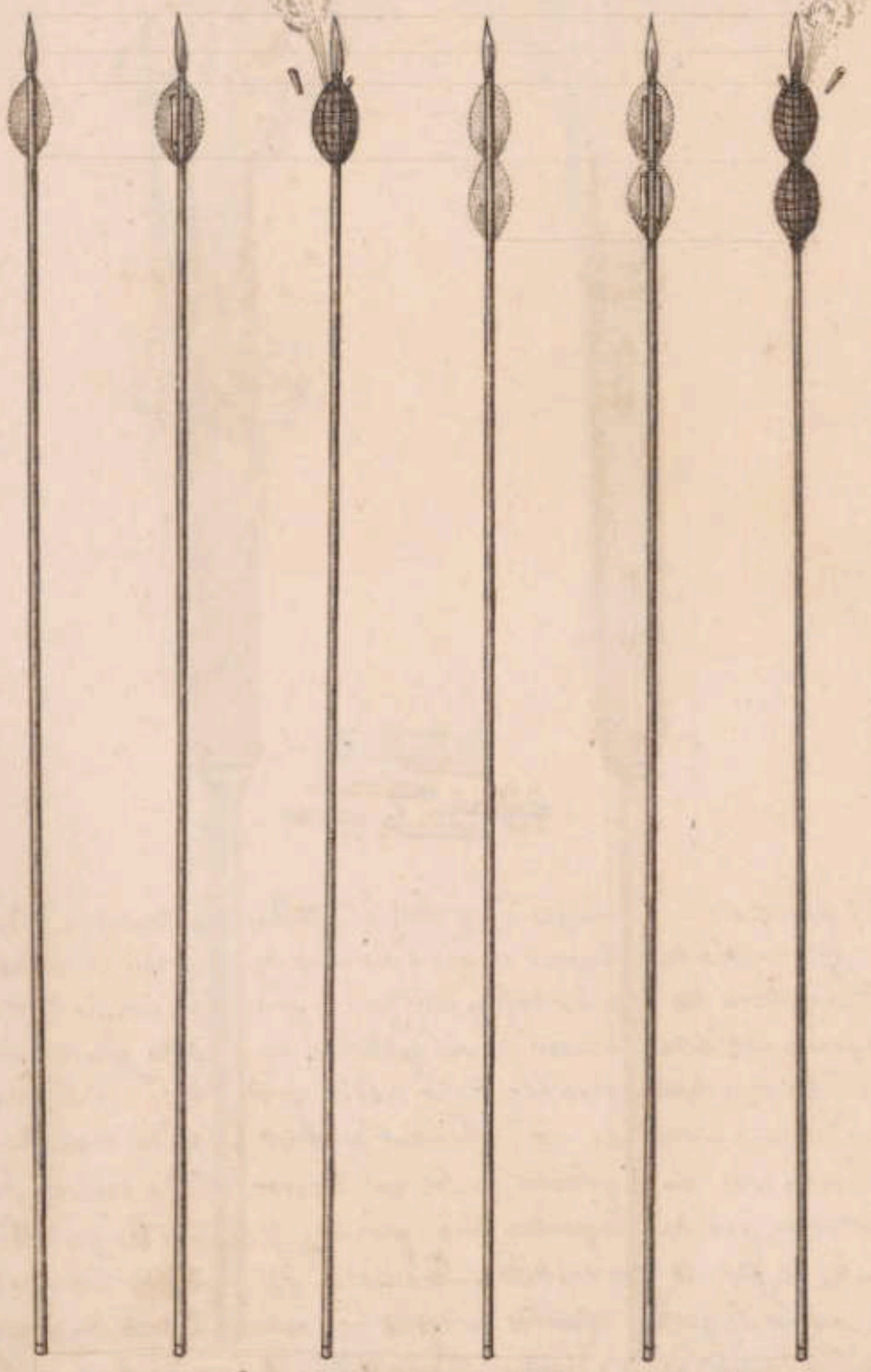
Seilles se chargent comme dessus, et auec chausses trapes est propre principallement à boser sur mer.

Aultre pot à feu, lequel à detenir le trou point plus grande que lon. Du pouse mettre qun bien petit doit, et n'est charge que de poudre fine. Lequel ne sert que pour bruler, en tems d'assaultz, aussy ce peult se faire le mesme auecq de bouteilles de verres ~.



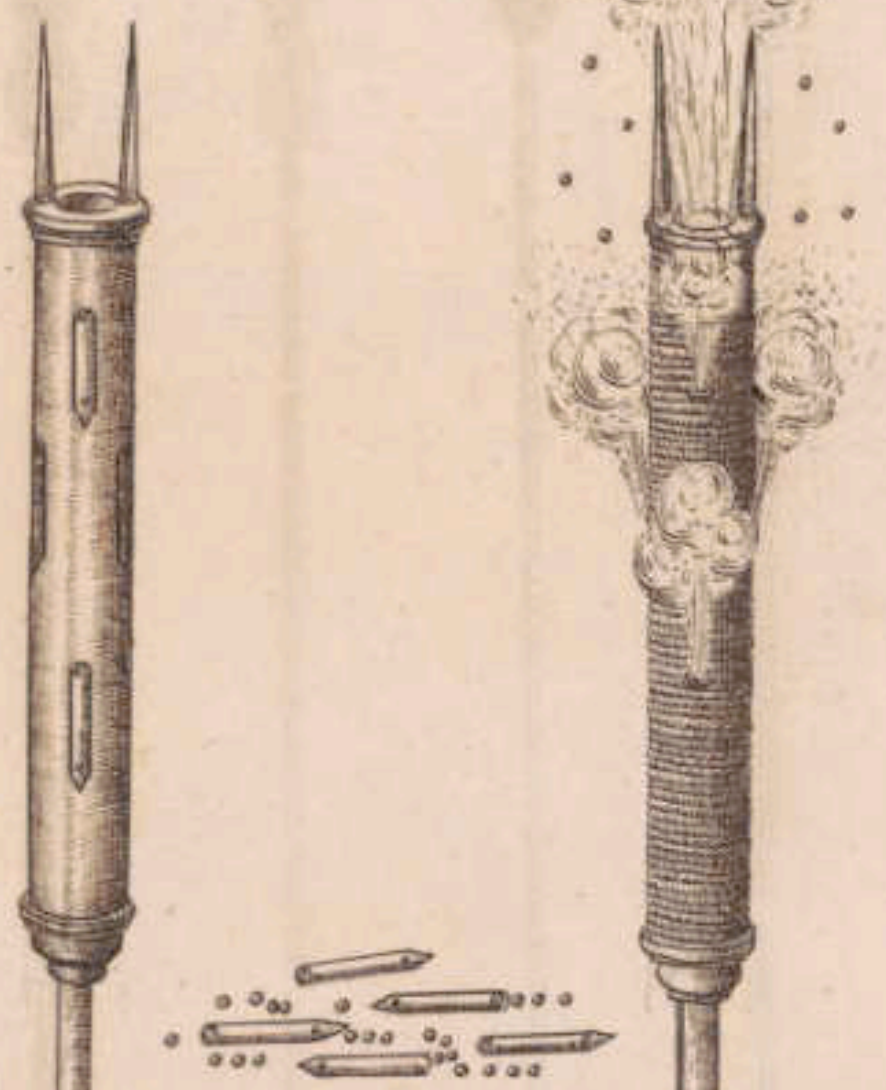




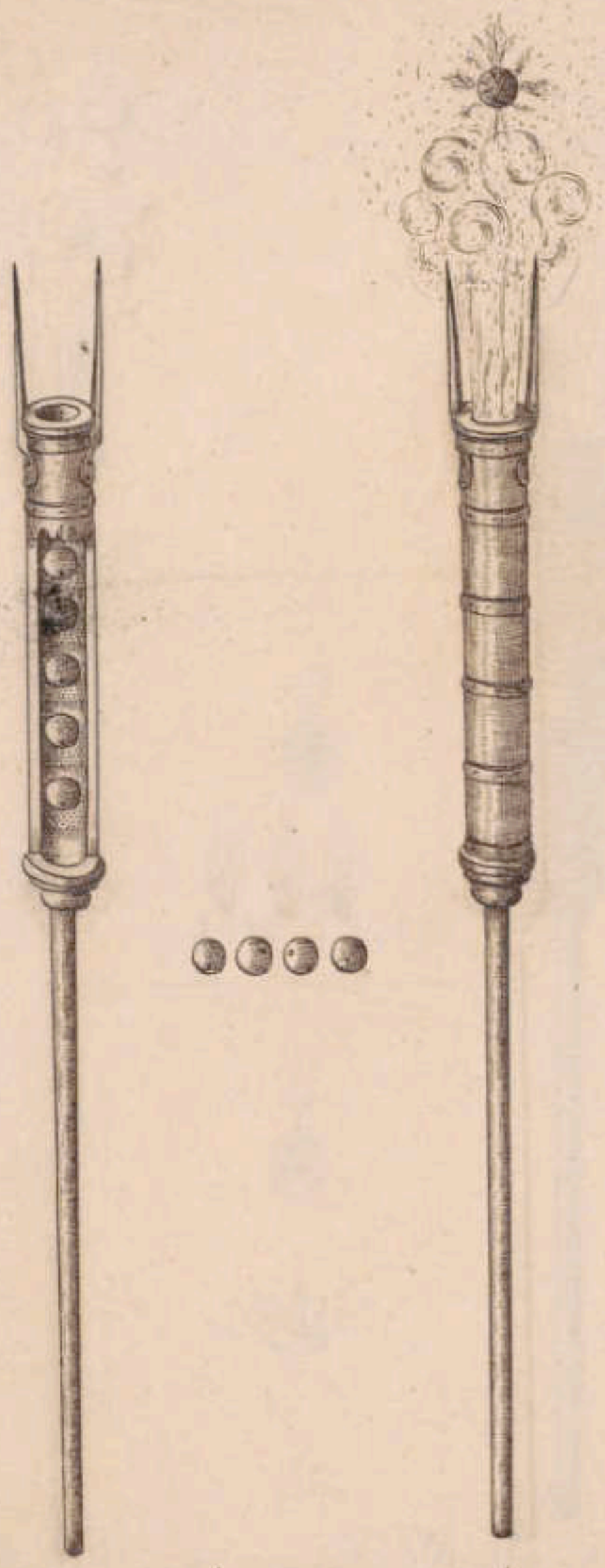


Piques de feu avec charges de carquebuz à deffendre assaultz.

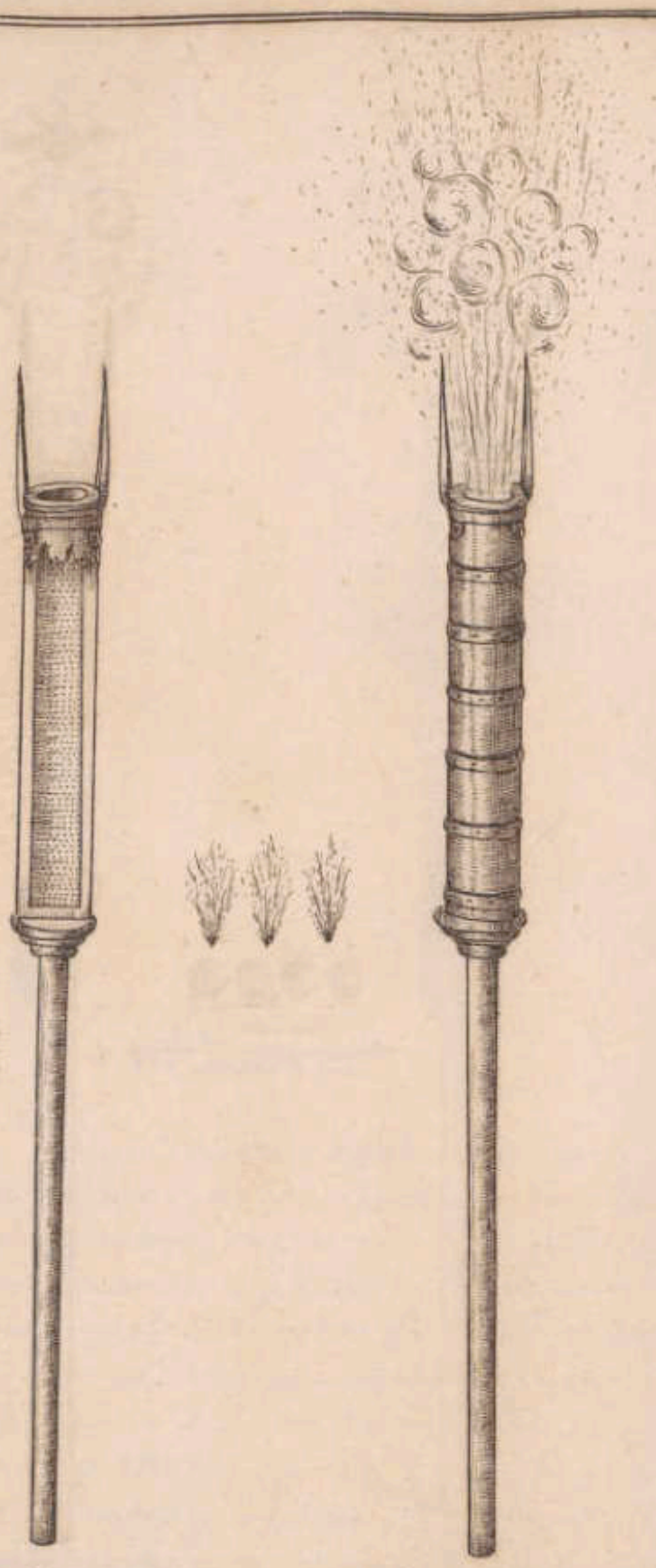
Trombes.



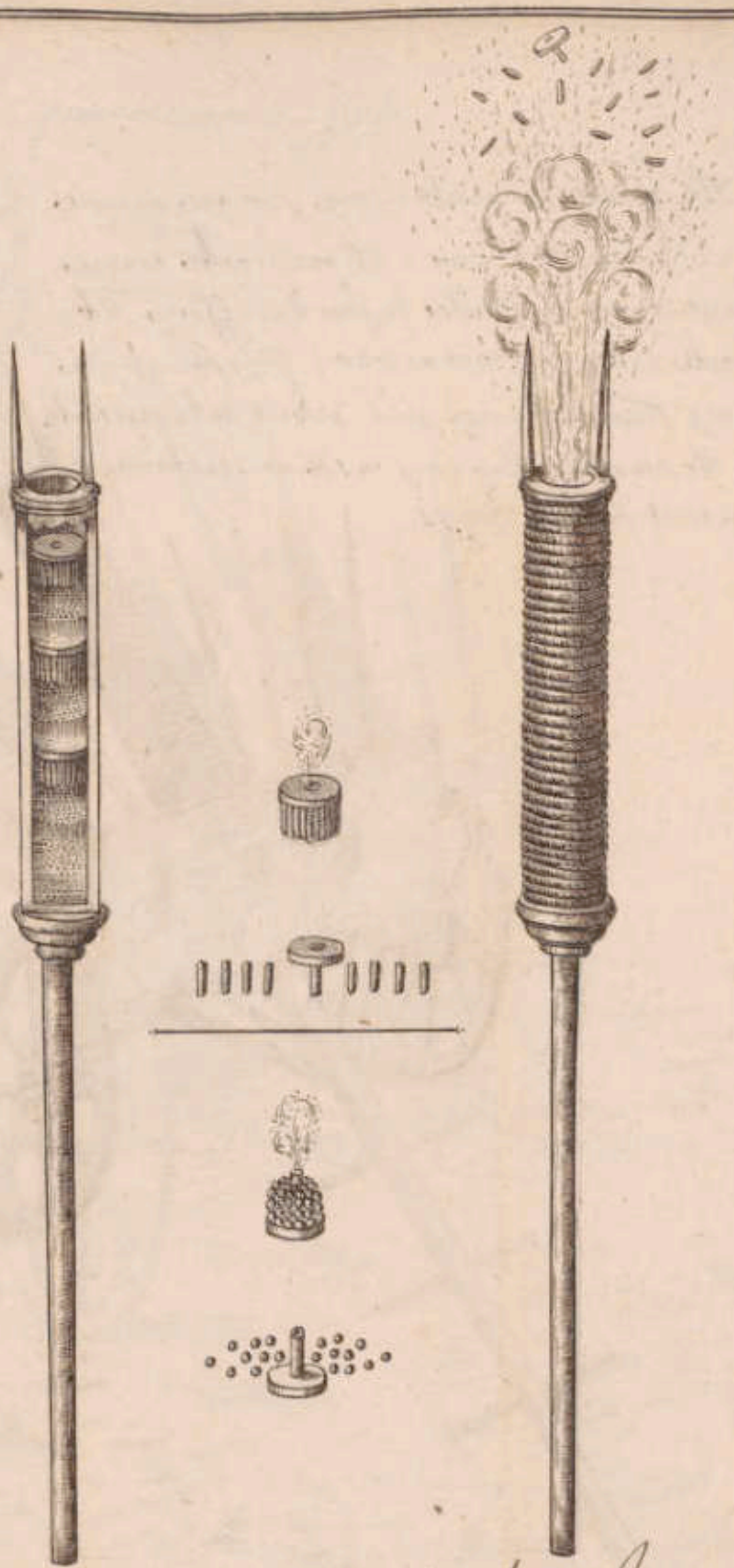
Trombes pleines de charges d'arquebuz a deffendre l'assaultz. Laquelle d'retenir quatre dois de largeur et ont trois piés de creuse en dedans, et en Serge de la maniere des balles de feu artifficiel, puis son creuze, ladite Trombe endedans pour y mettre un cauuer les six pistollets en sorte que en tirant le trou soit libre pour donner voye à la Balle desdits pist- ollets, et le trou par lecouel se donne lamorce se met Justement au droit de vn trou faict en ladicte Trombe auec vn pomson, et lon met deuant ledit trou ou lumiere des pistollets vn peu de la poudre fine, puis ony Baston qui est attache auecq bandes de fer, et entre dedans la culatte de ladite trombe, puis Se faut couurir la geule de Canebas en apres bien cordee le tout de grosses ficelles Joignant l'vn l'autre, et lors tremper le tout dedans du pec en sorte qu'il ne se voye que pec, et lors que lon s'en veut seruir, fendre le canebas et mettre vn peu de poudre fine, puis donner le feu.



Trombes artifficielles charge de la meme mixtion de balles de feu artifficiel
Et doibt estre faict de la mesme proportion et mesure comme la precedente
et doibt estre mis en dargeant vne petite grenade en grandeur vn esteuf ,
laquelle doibt estre mis de quatre pouces de distance arriere l'vn l'autre , et
le vendroit de la lumiere qui doibt estre en bas de la poudre fine . affin de
chasser la grenade hors de ladicte trombe .

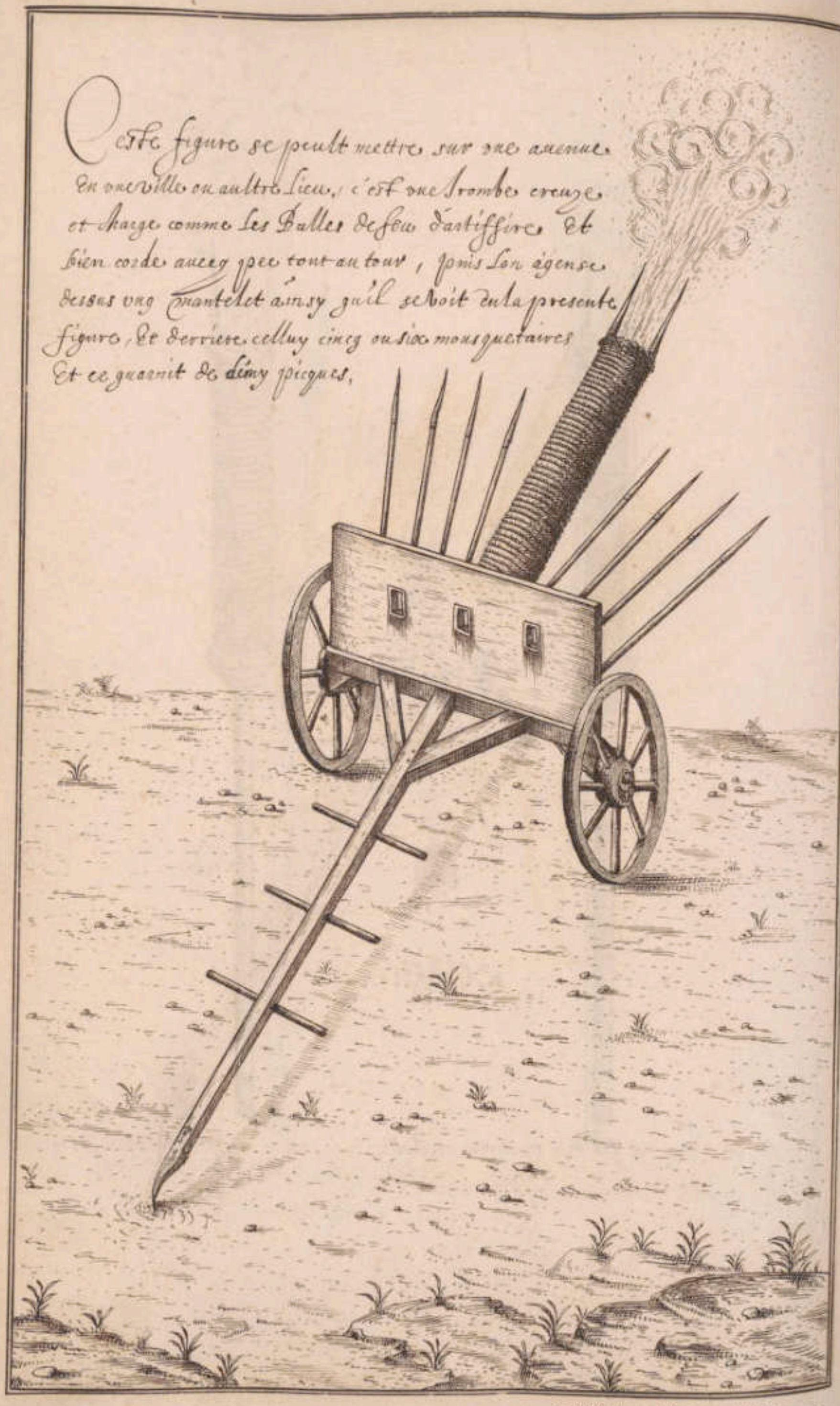


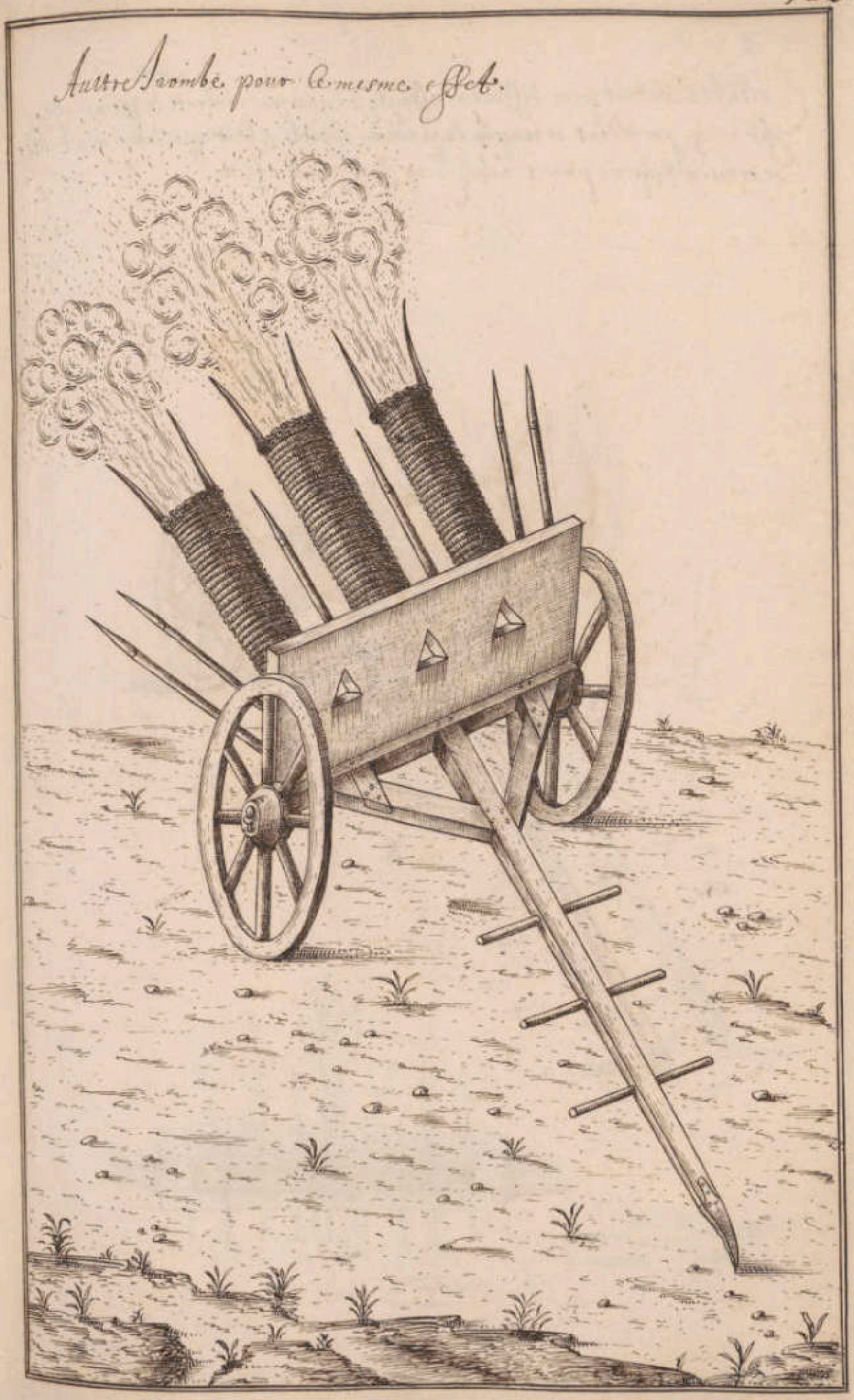
Ses bombes chaudes de feux artificielles pour bruler les Sommes, lesquelles sont fort propres pour les assauts



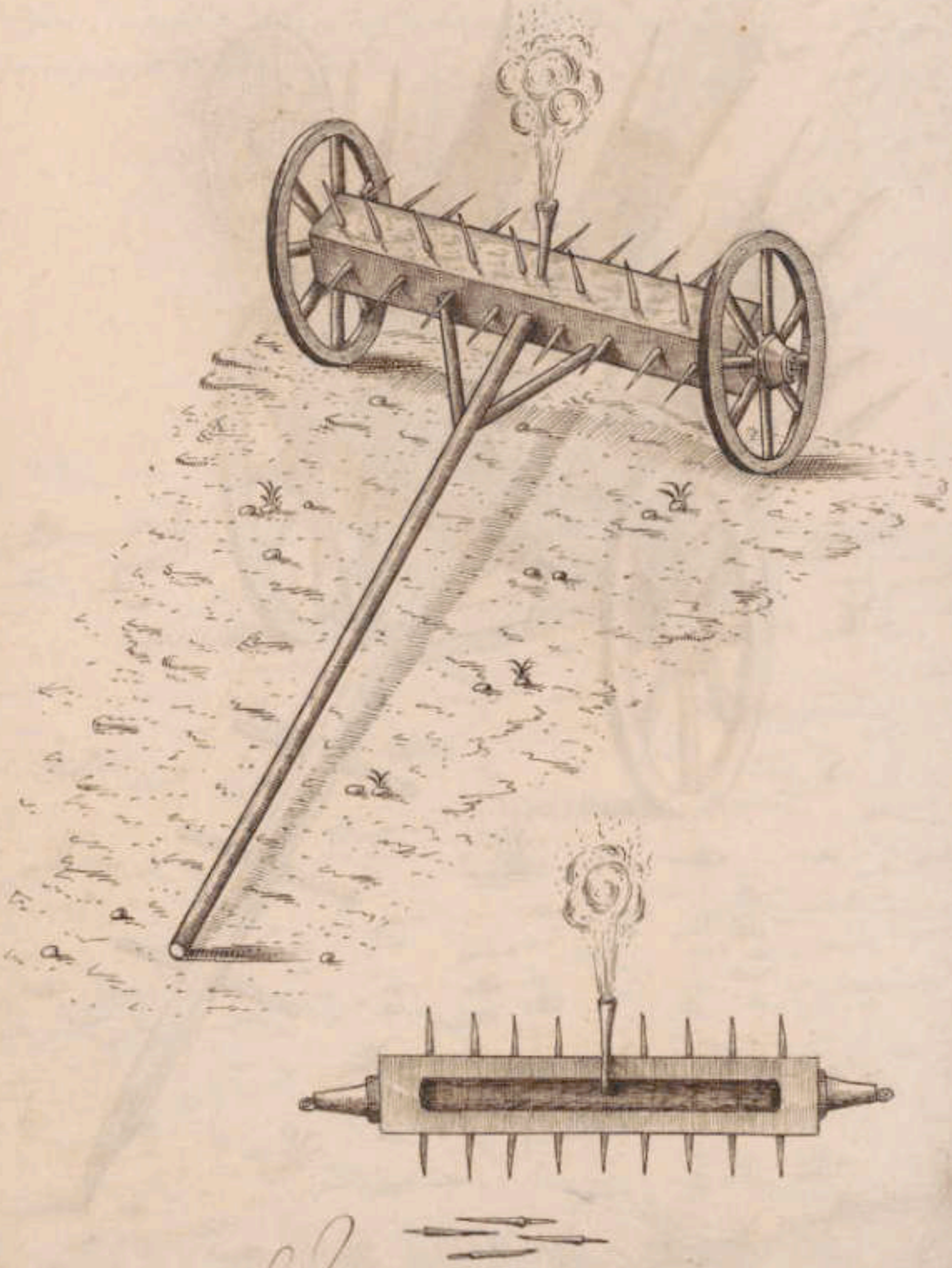
Trombe chargees des dex ou carreaux Balles d'Arquebuz comme Icy vas dessegno.

Cestte figure se peult mettre sur une auenue
en une ville ou aultre lieu, c'est une trombe creuze
et charge comme les Balles de feu d'artiffice et
bien corde auecq ppee tout au tour, ppris son ègense
dessus vng Chantelet ainsy qu'il seroit en la presente
figure, et derriere celluy cincq ou six mousquetaires
et ce guarnit de dimy picques.





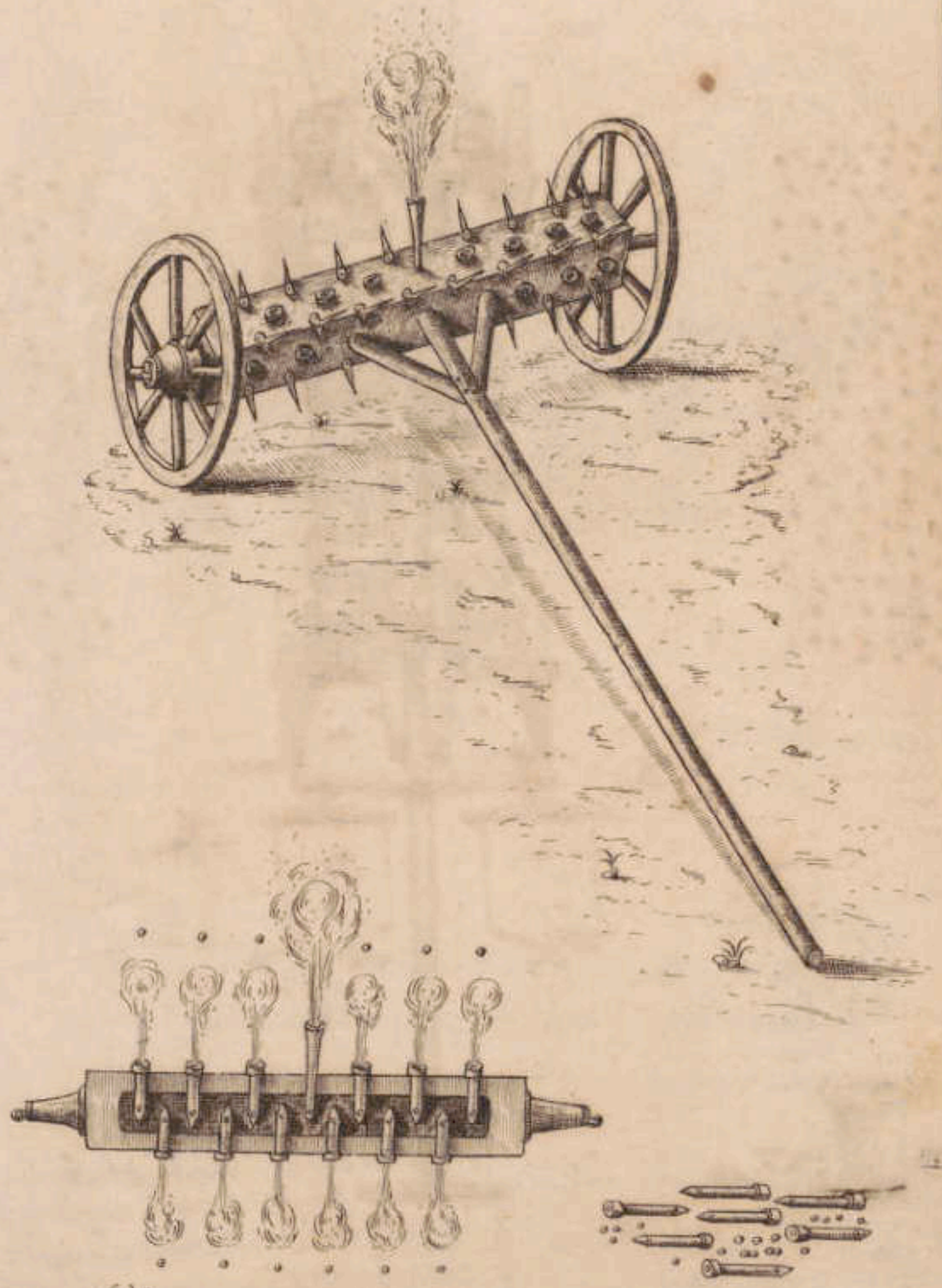
Sombon roulant pour deffendre assautz ou sommier roulant, de poincte de fer creux par dedens et remply de poudre, lequel estant pernetu à la balle se creue et dirige ces pointes éclatz avec fort grand effet.



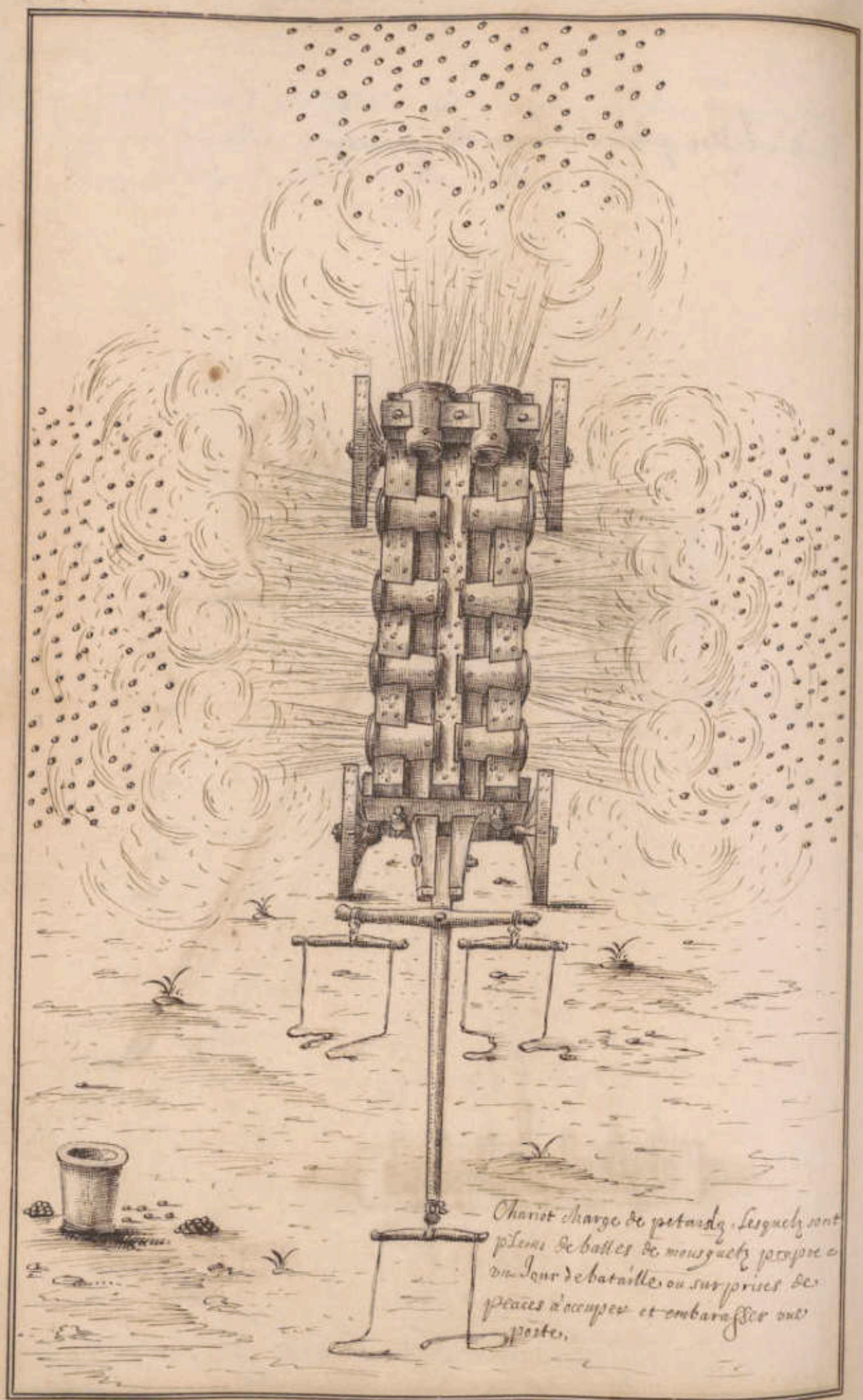
L'Interieur du sommier remply de poudre.

Fme 1.

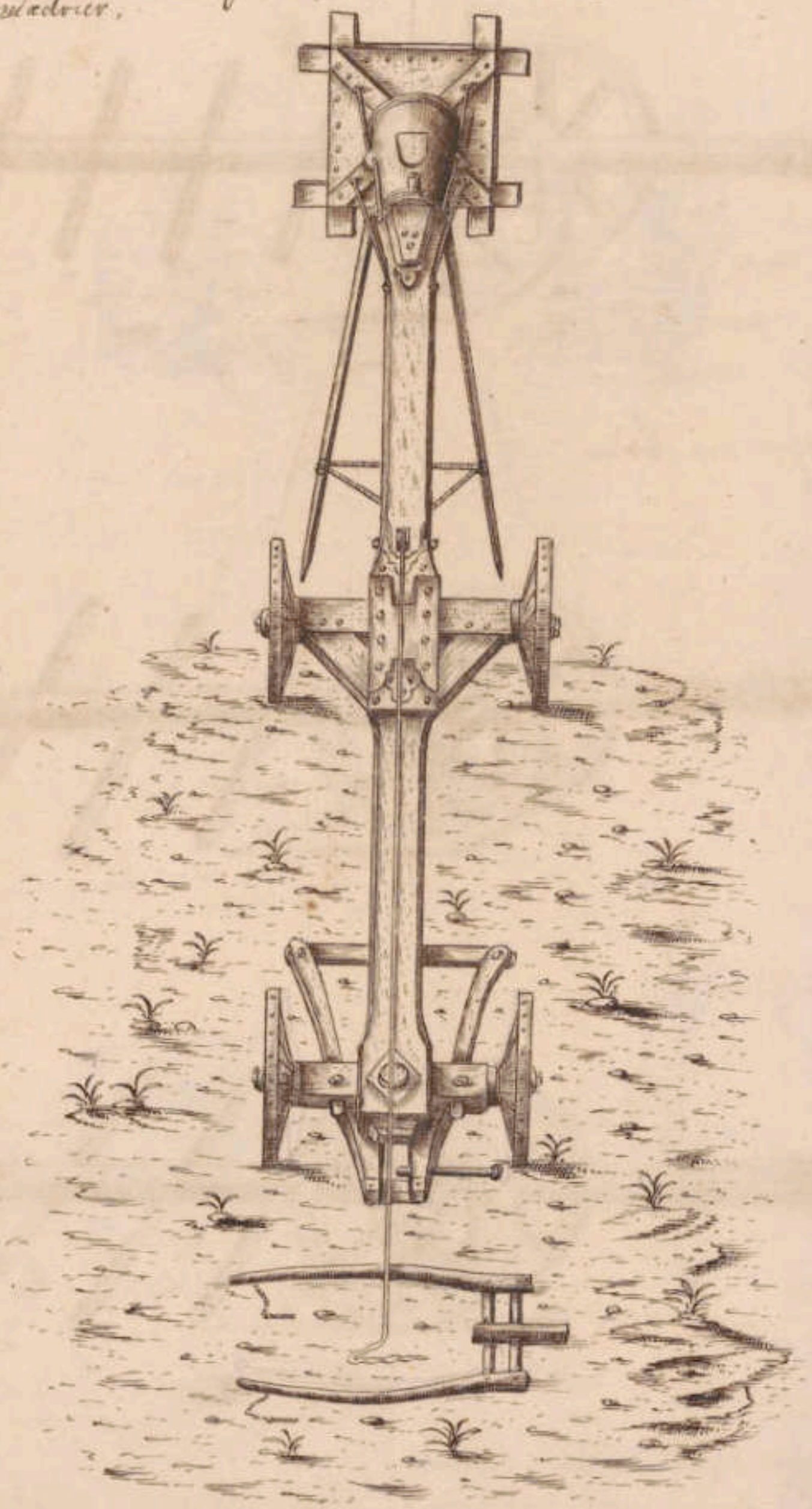
Aultre plein de charges de mosquetz



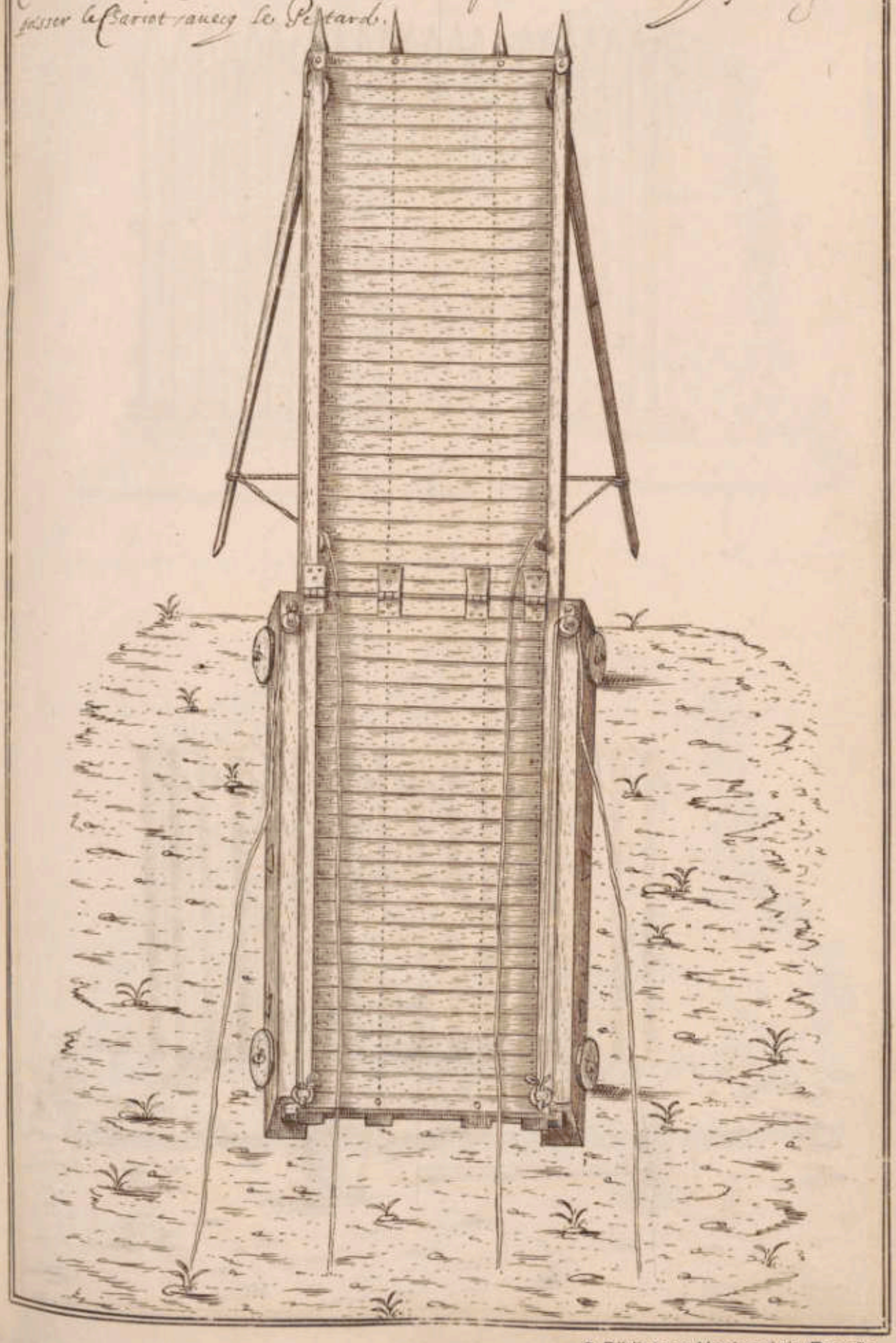
L'Interieur.

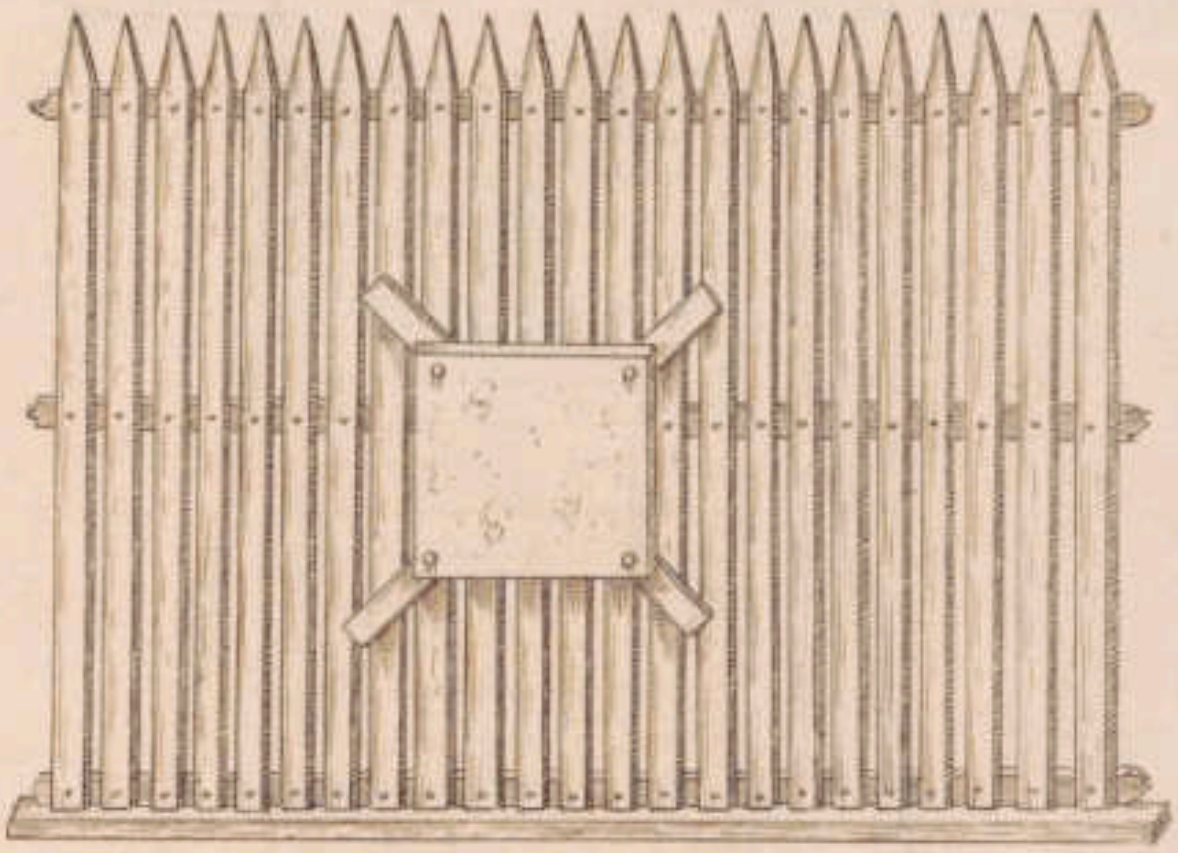


Un chariot avecq vn mast qui se remuerse contre la Porte ou Lieu, Ou l'on veult faire Ponger le petard, sur quoy est applique le Petard avecq son Quadrier.

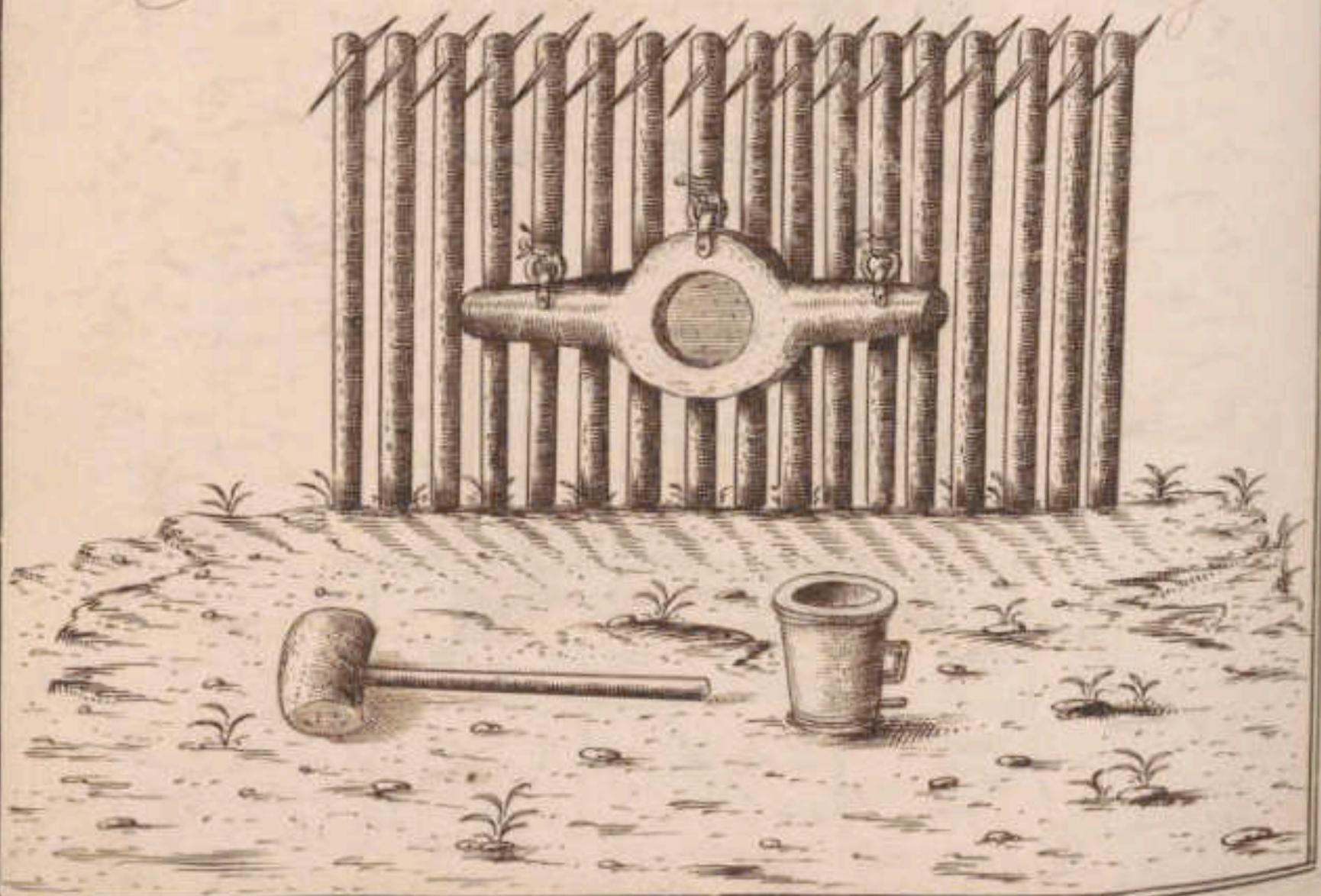


Pont lequel se plie en deux et alors quand on s'en veult servir l'on tire des Cordes, et on le faict aduancer contre le pont Levis, Sur quoy l'on faict passer le Chariot auecq le Petard.

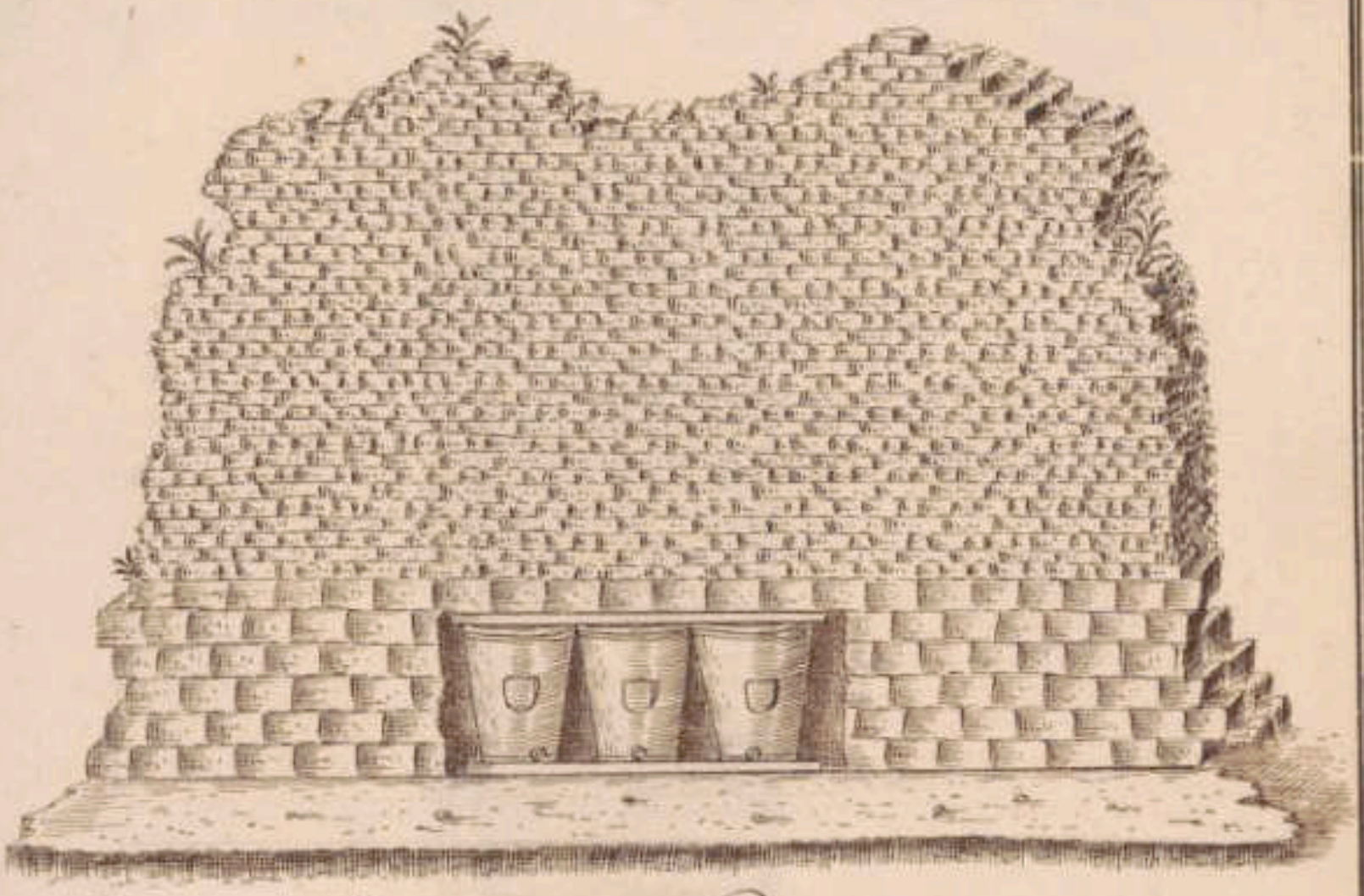




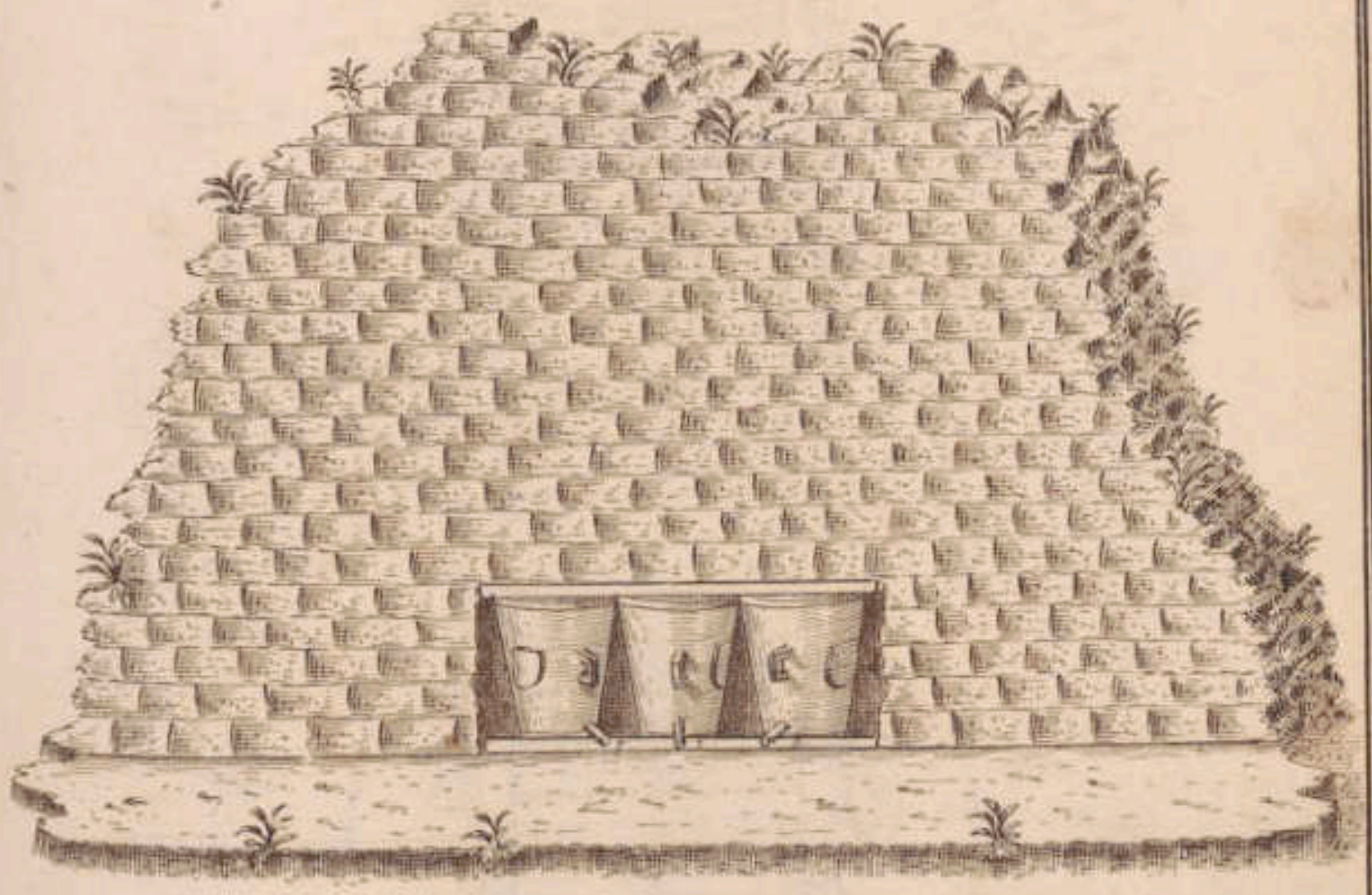
Le maniere d'un madrier pour renuerser vne Palissade à pointes de fer.



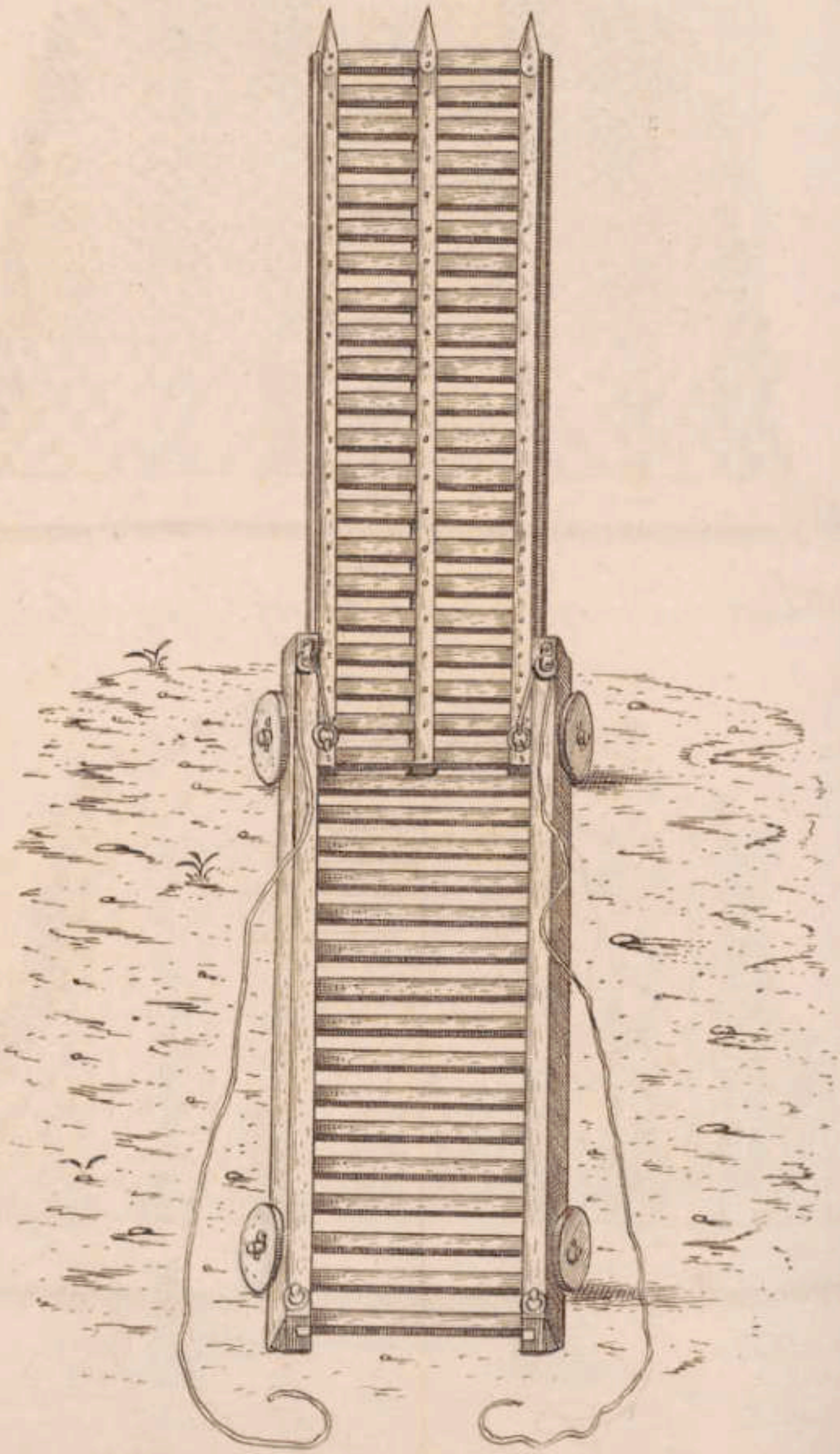
Pour enlever une Muraille avec de petards chargez de poudre fine.



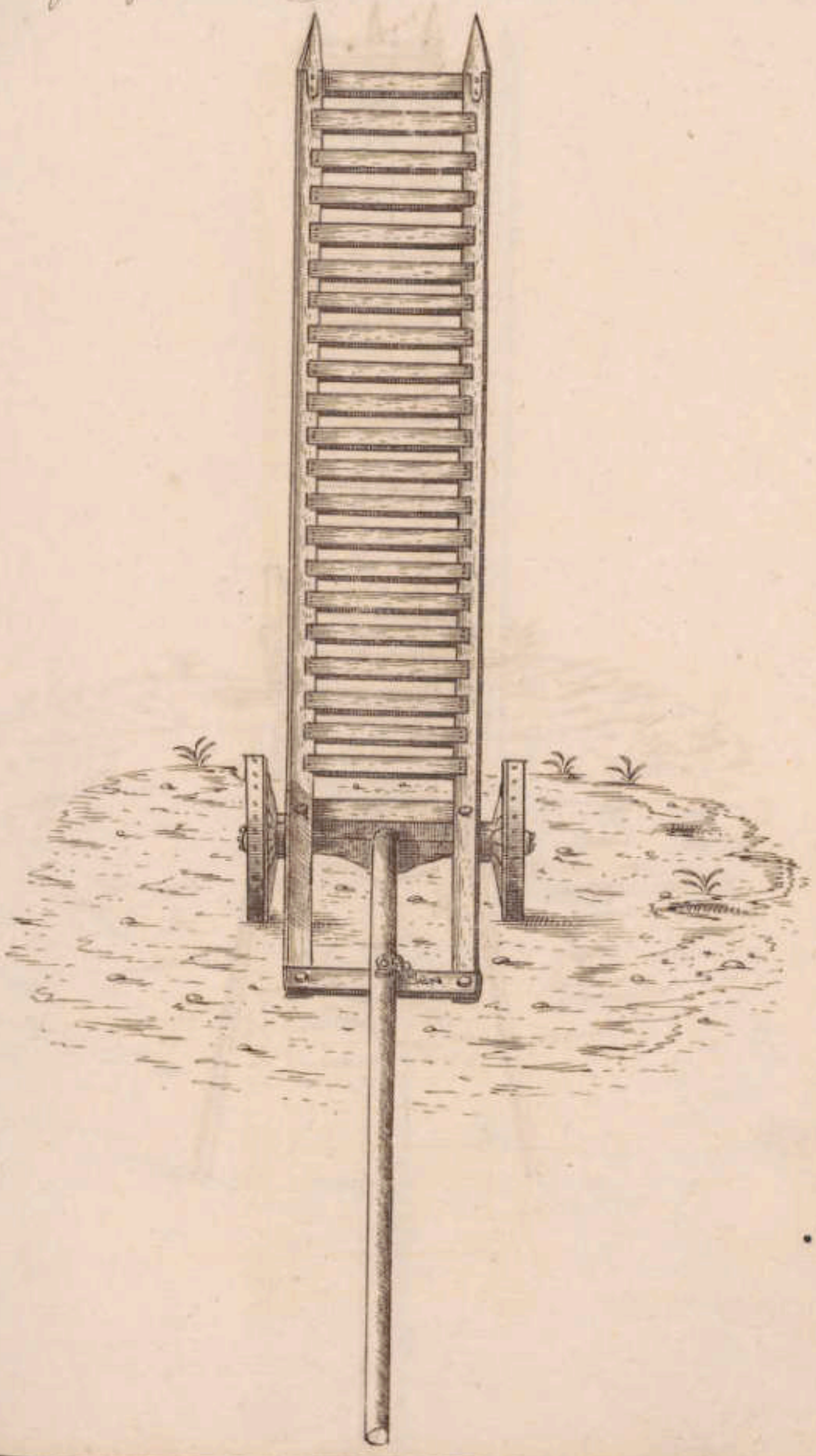
Pour enlever une Terrace avec de Petards chargez de Poudre fine



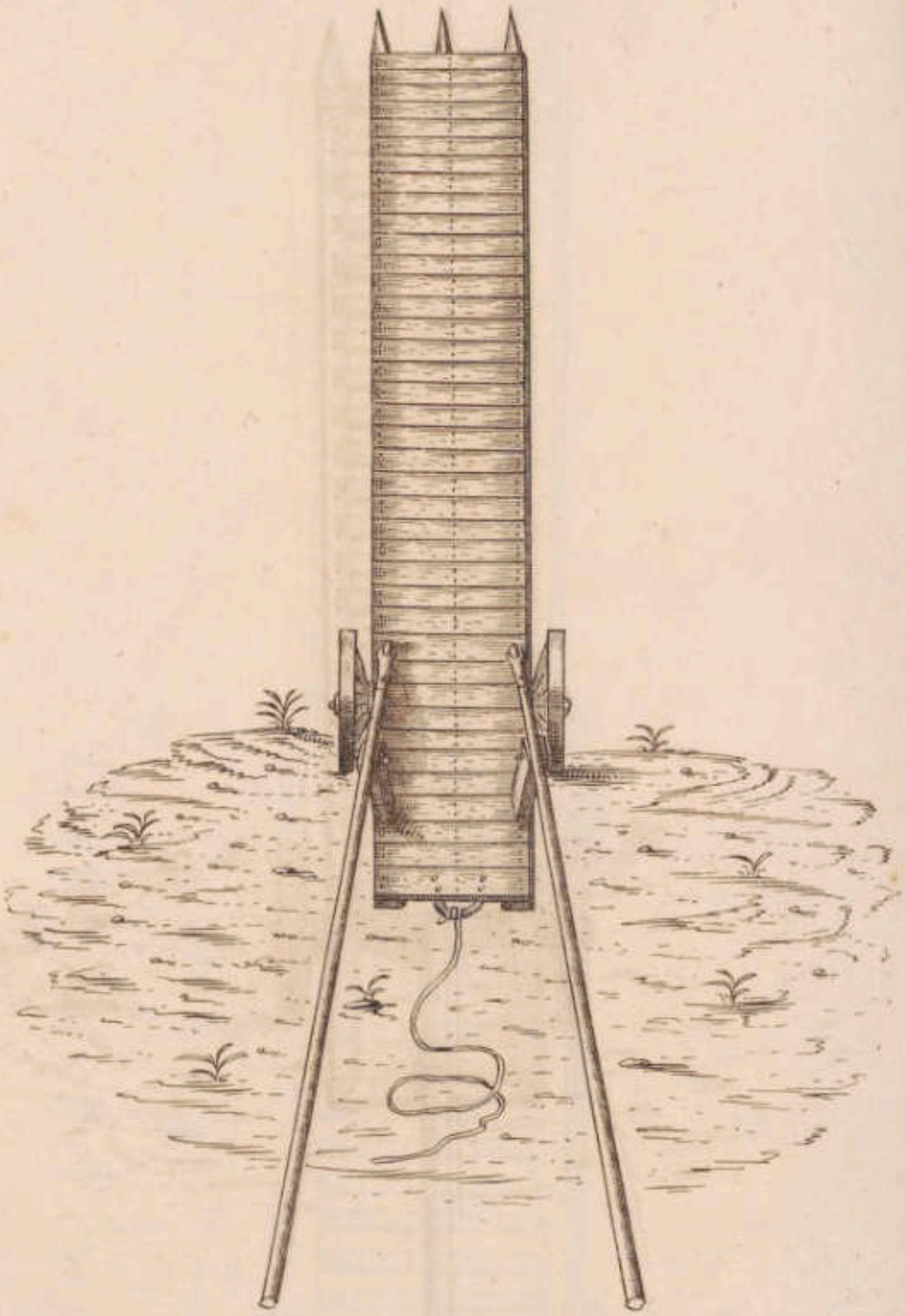
Autre Pont fort bon pour attacher un petard et aussy pour passer les gens apres que le petard at faitt son effet.



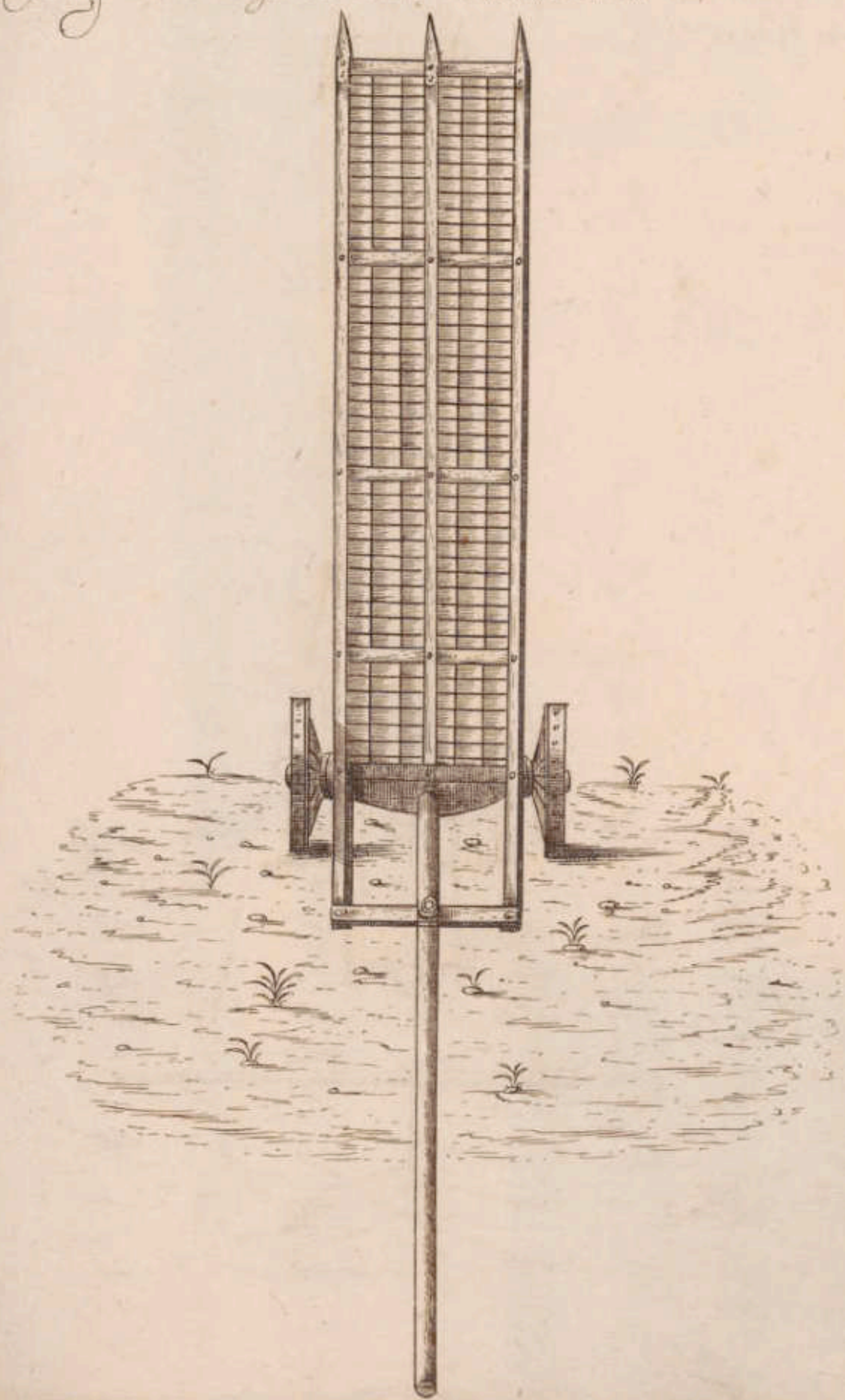
Pont apotander, lequel fut employe a la surprise de Bouges sur le Zoom, et puis apres a celle de Gueldres.



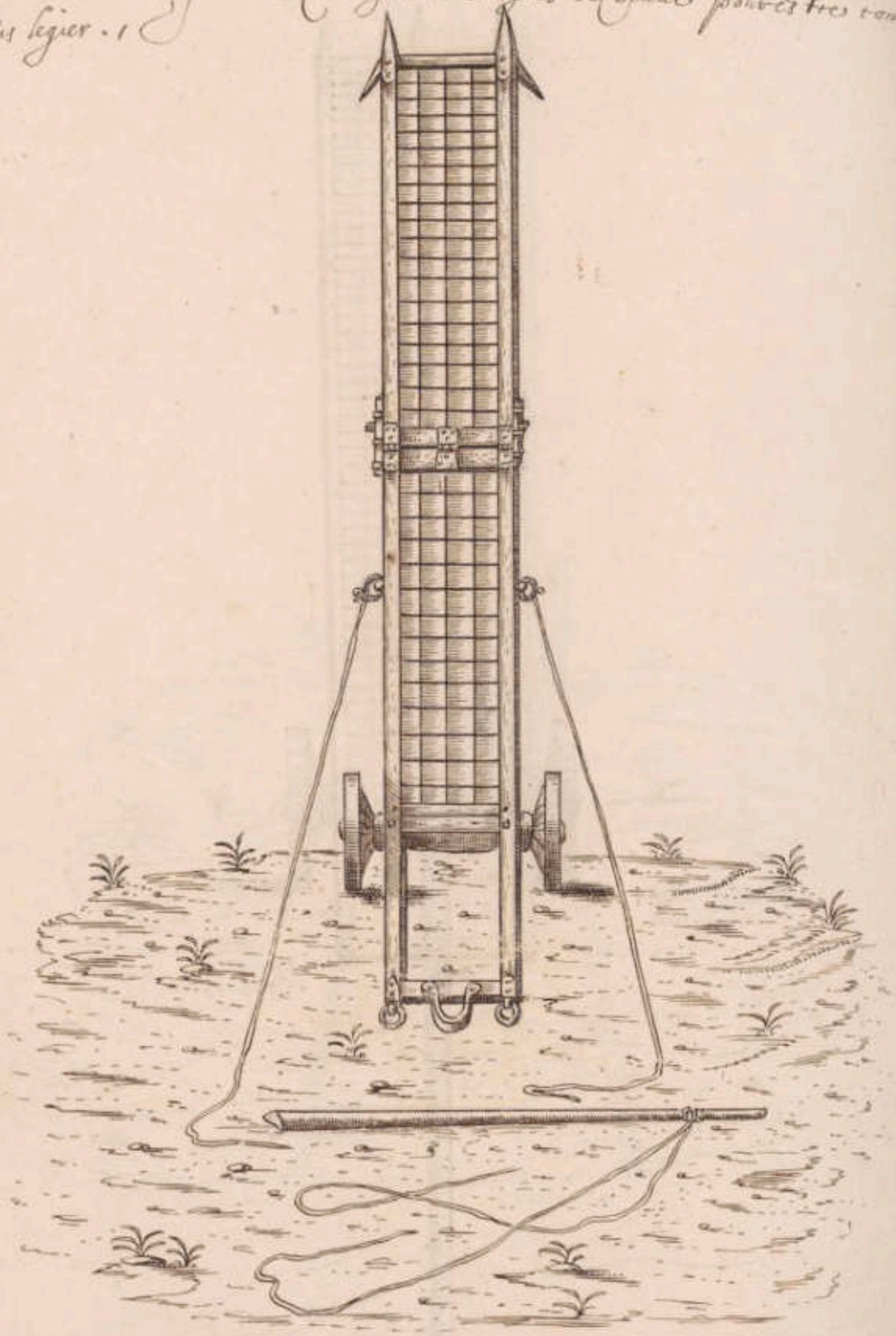
Pont à petarder de l'usaigo de Beronimo de la Marcke.



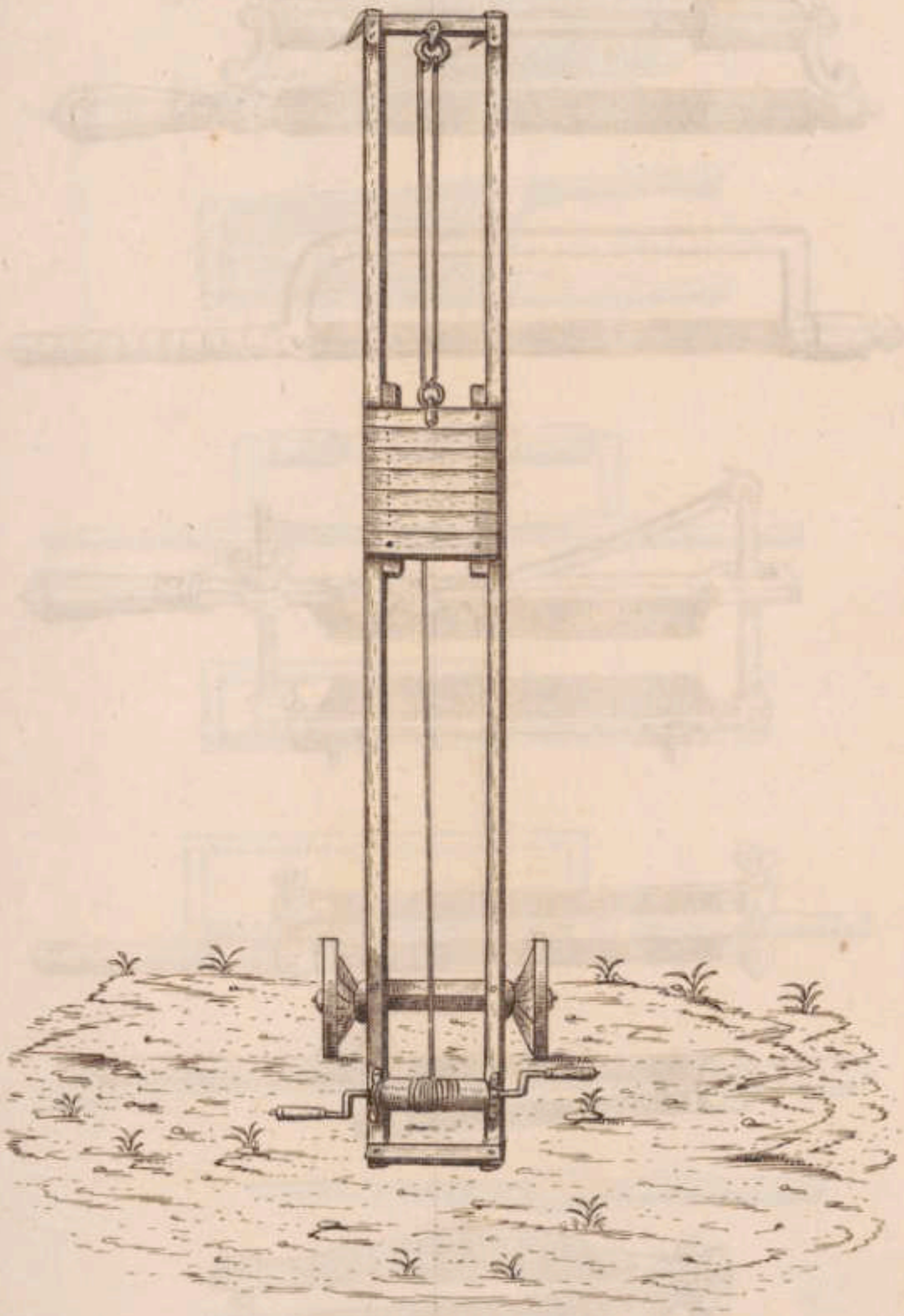
Pont faict de Canebas et Cordage pour attacher vn petard lequel est fort bon et seur, de l'Oriage de monsieur de Serraille.



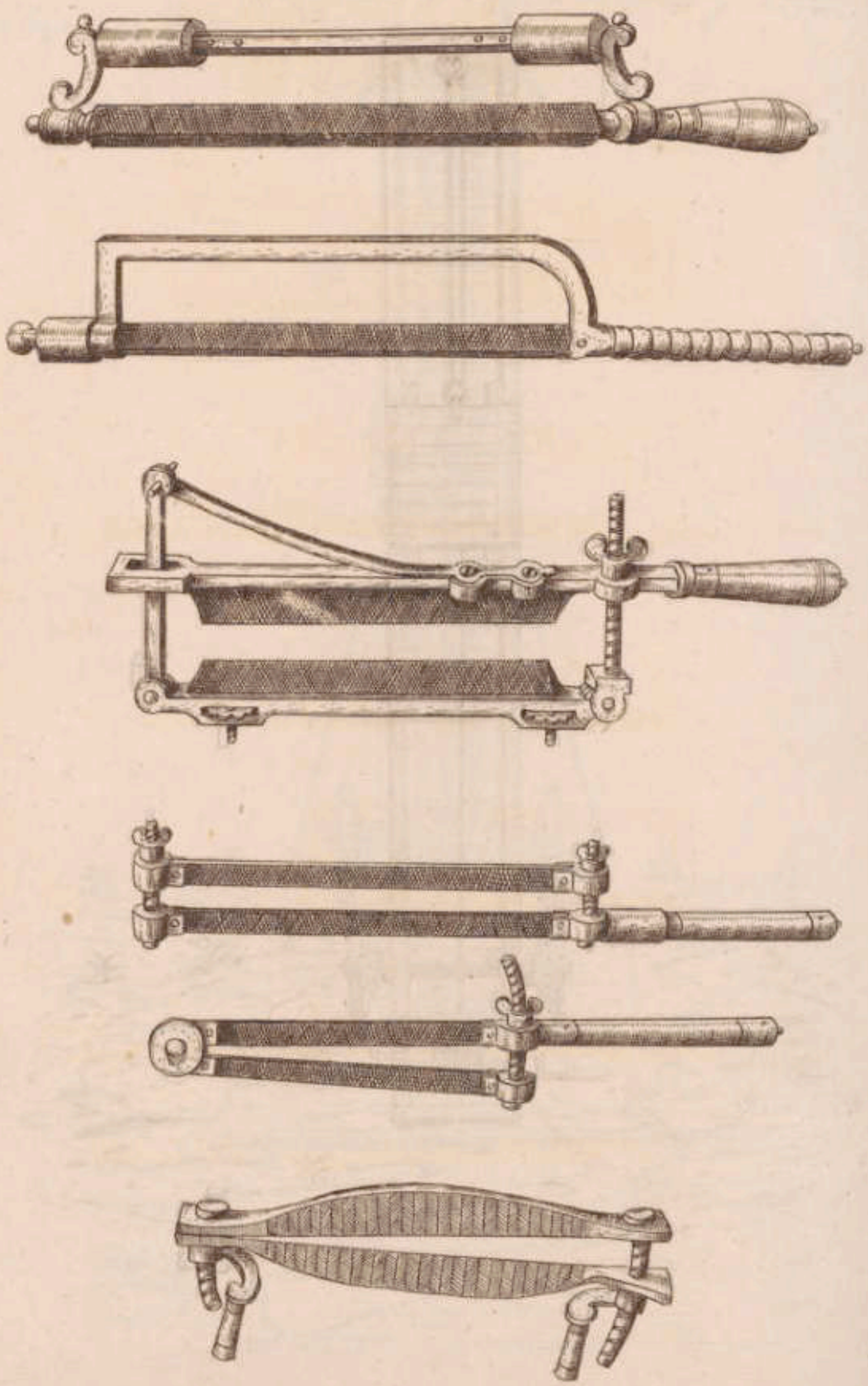
Pont propre pour acaller un pont levis et aussy pour attacher un petard lequel doibt estre faict de Cordaiges et sengles de Benal pour estre tout plus legier. 1



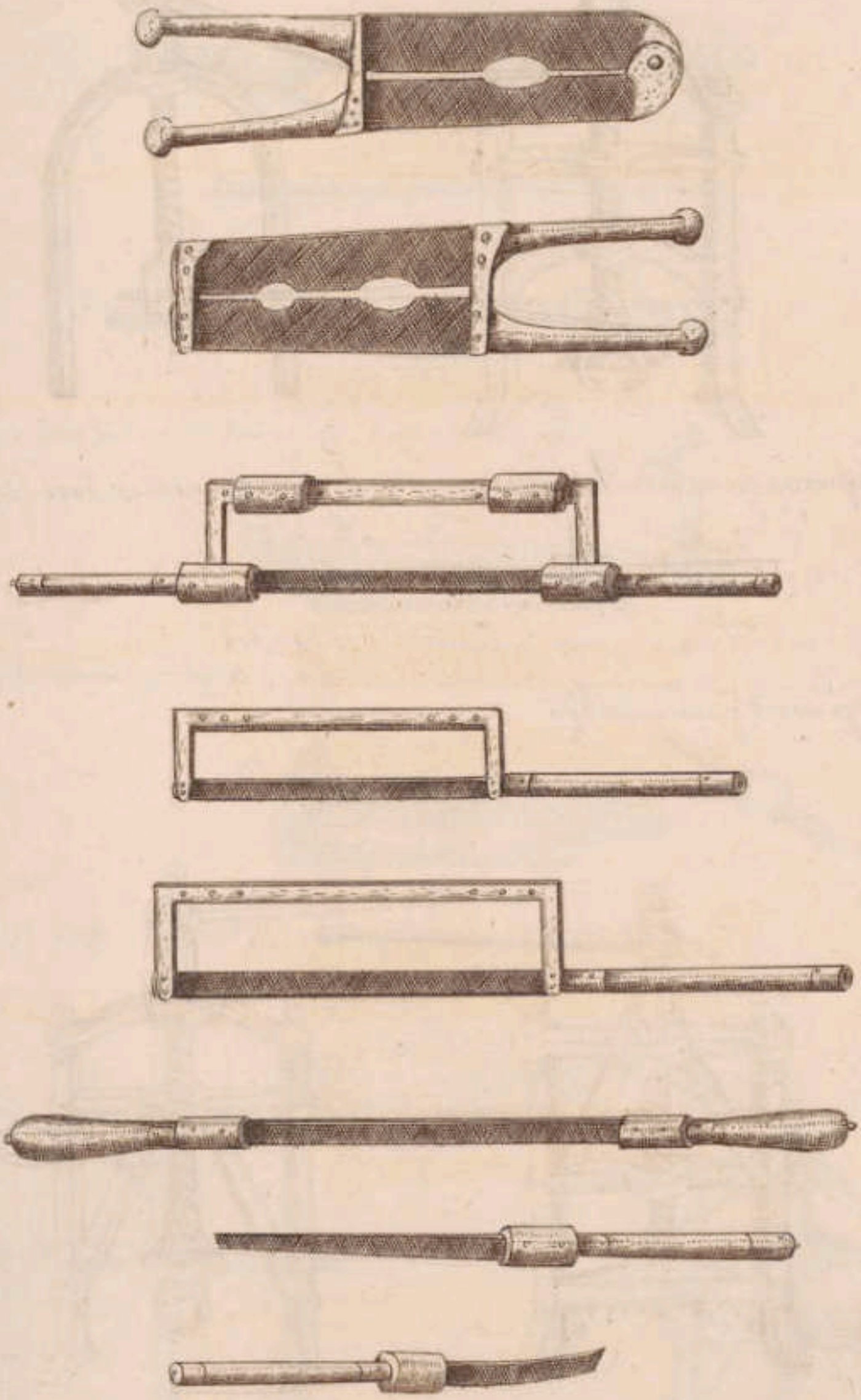
Pont propre a attacher un petard a un pont levis, et l'usage de Lomet

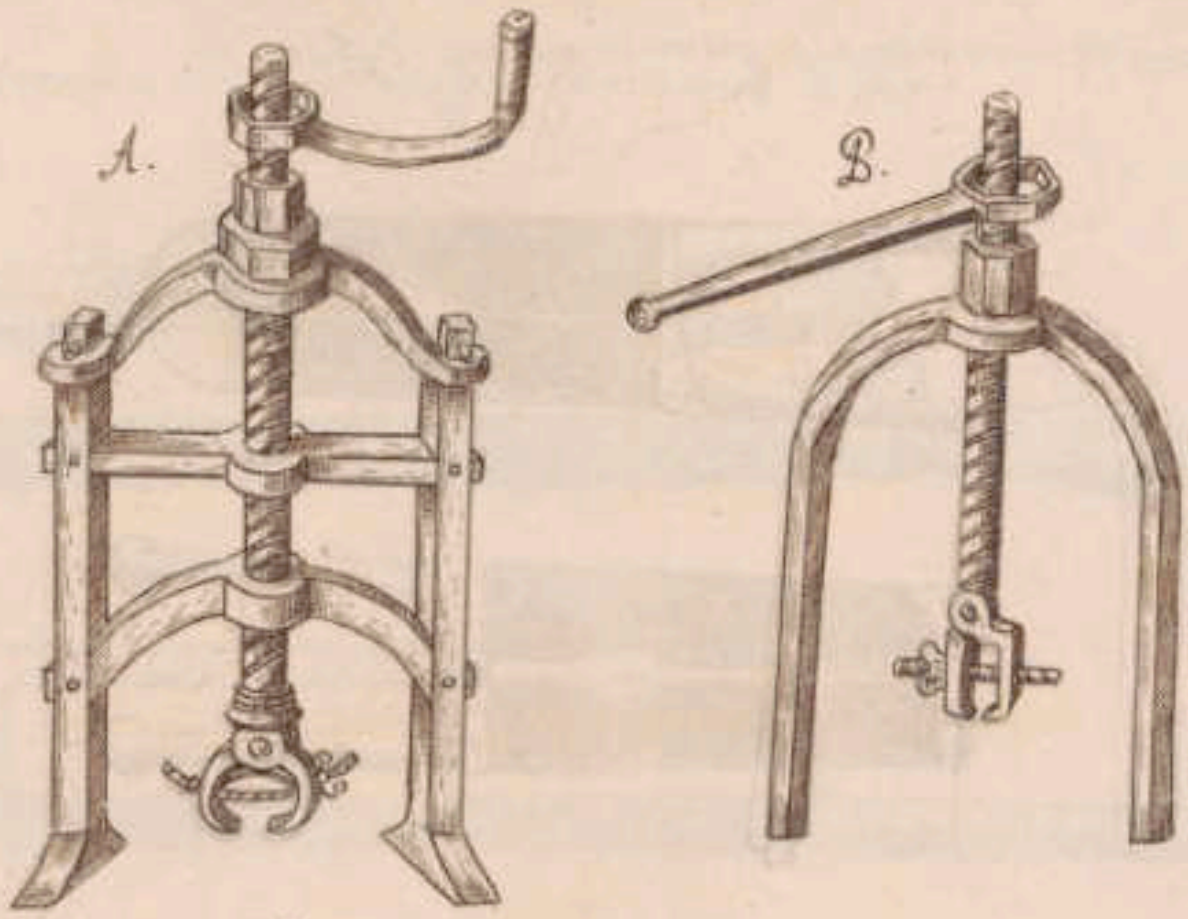


Plusieurs limas ondes pour couper des barres de fer



Autre Sorte de Limas pour le mesme effet



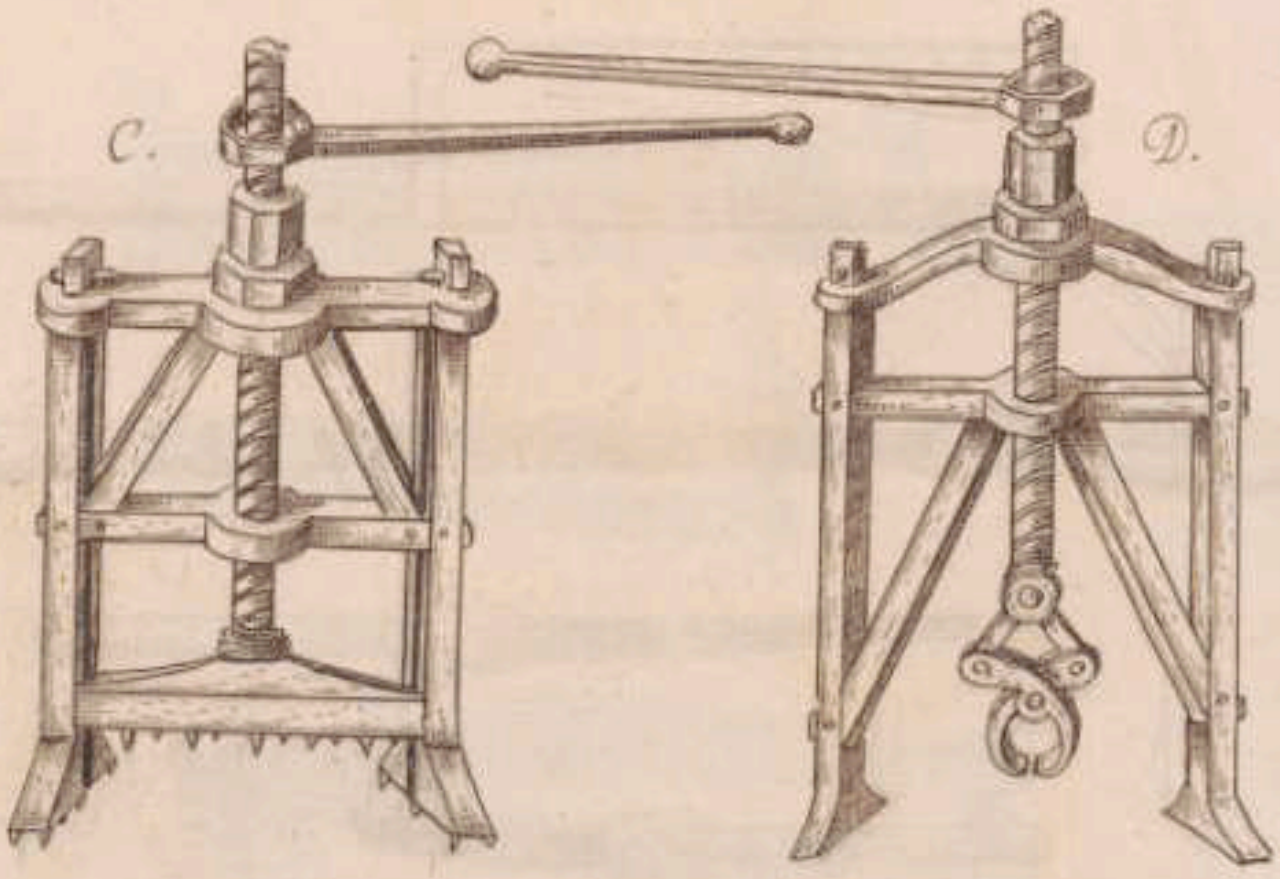


A. Espinxes pour arracher tout ce qu'on desire. lesquelles sont de grande effet

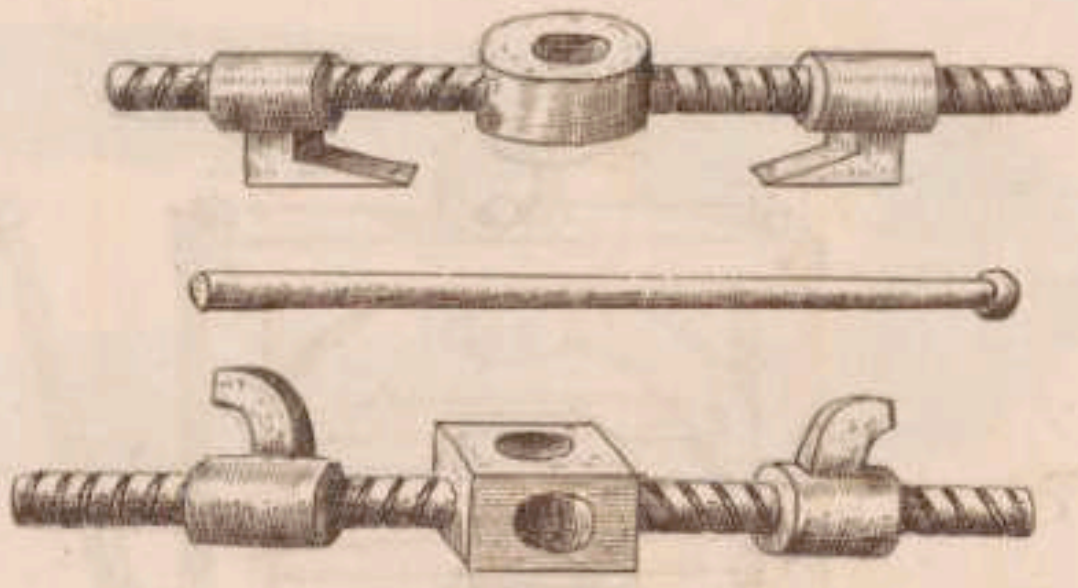
B. Autres Espinxes de monsieur de Serraille

C. Vys ou Instrument pour Enfondrer une porte

D. Espinxes pour arracher ..

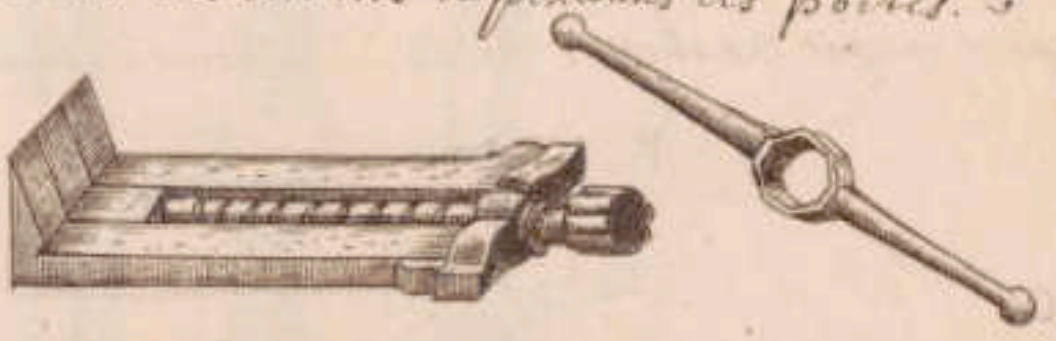


Un bys pour arracher une serrure ou les pendans d'une Porte.

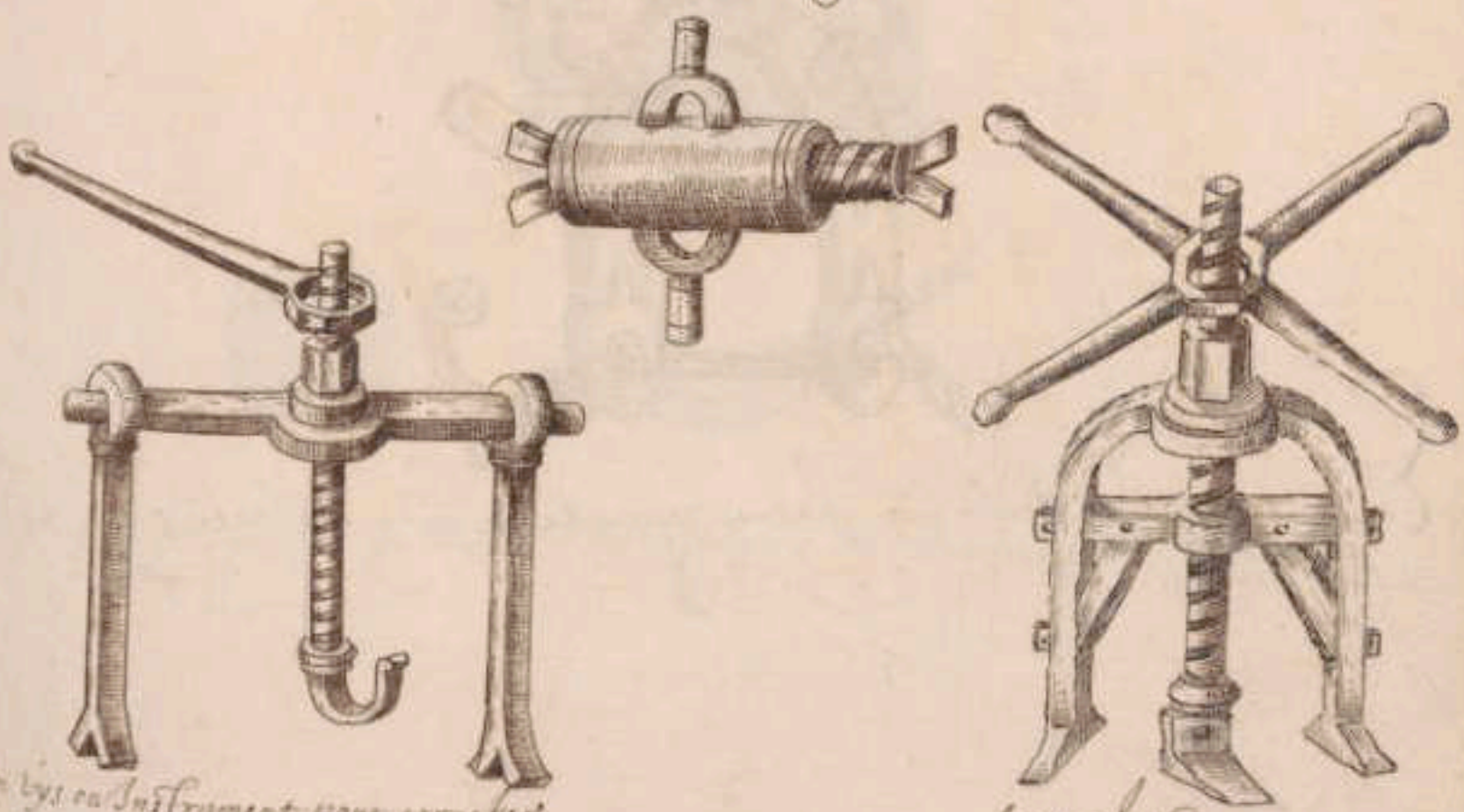


Un bys pour forcer et ouurir des Barreaux de fer

Deux Instrumens pour arracher des serrures ou pendans des portes.

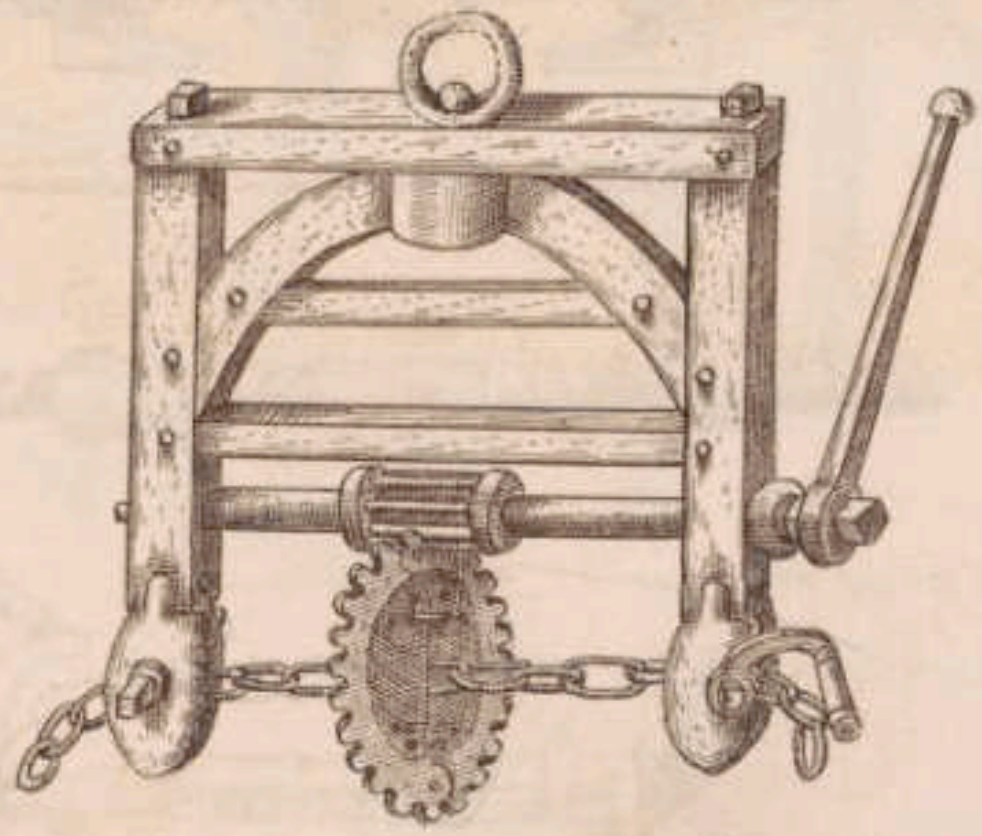


Un bys pour ouurir et forcer des barres de fer.

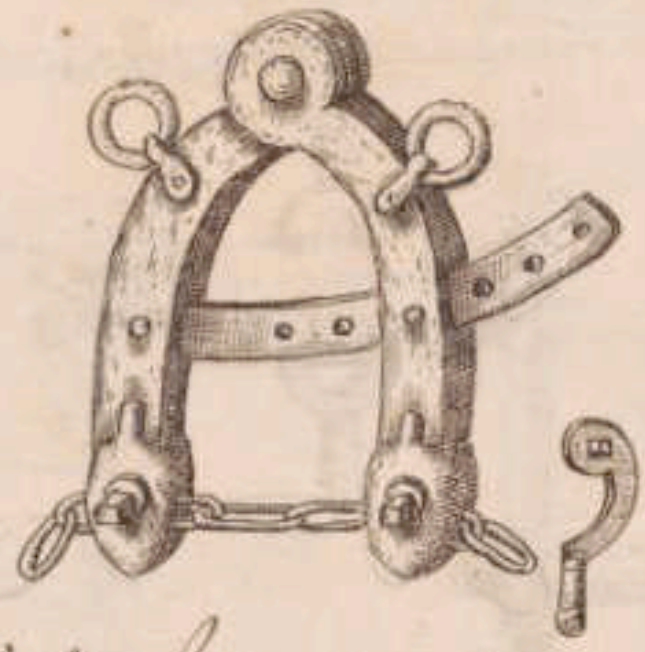


Un bys ou Instrument pour arracher

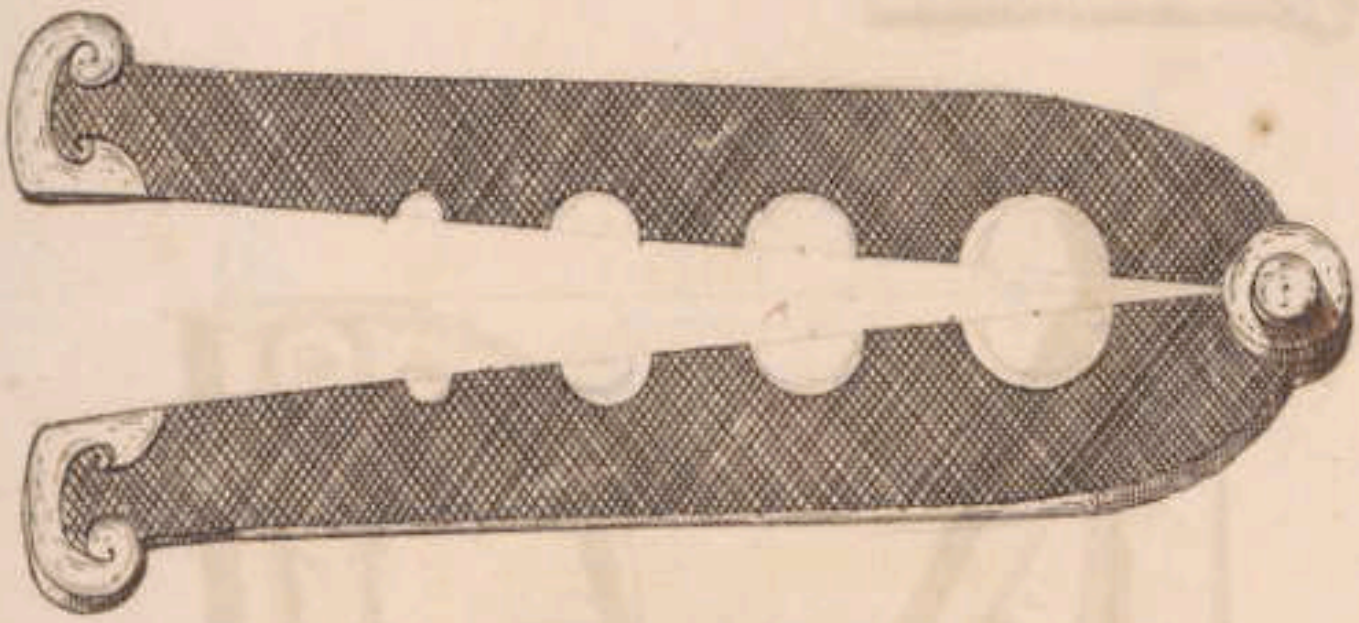
Autre Instrument pour arracher.



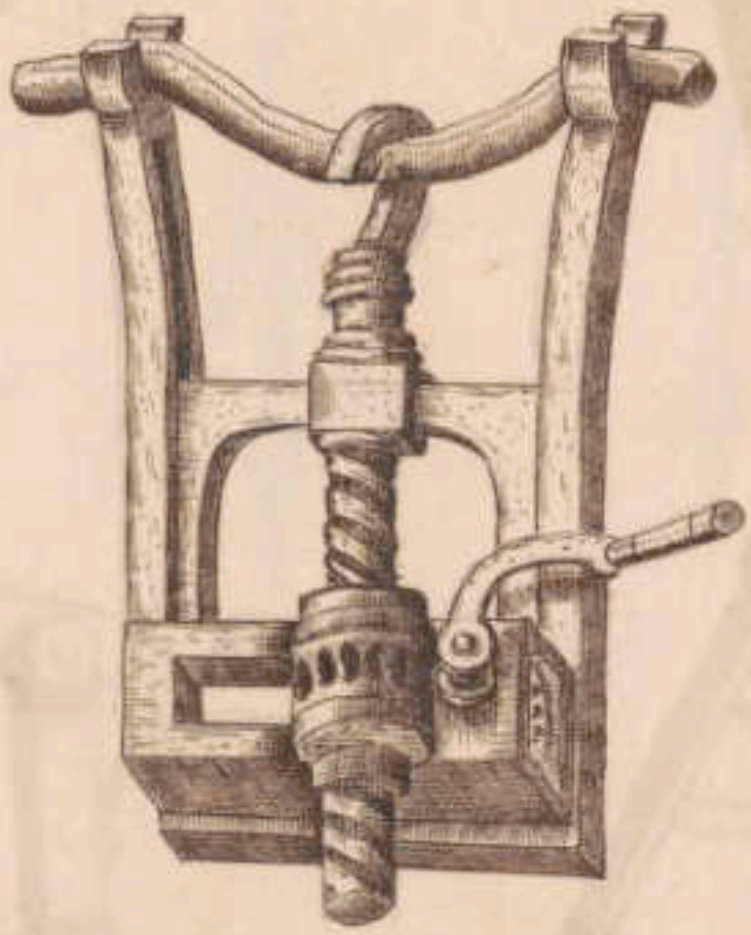
Cypinxes pour soustenir vne chesne aueq vn Tournant au millieu pour couper des chesnes &. de l'Inuention du Comte Mauris.



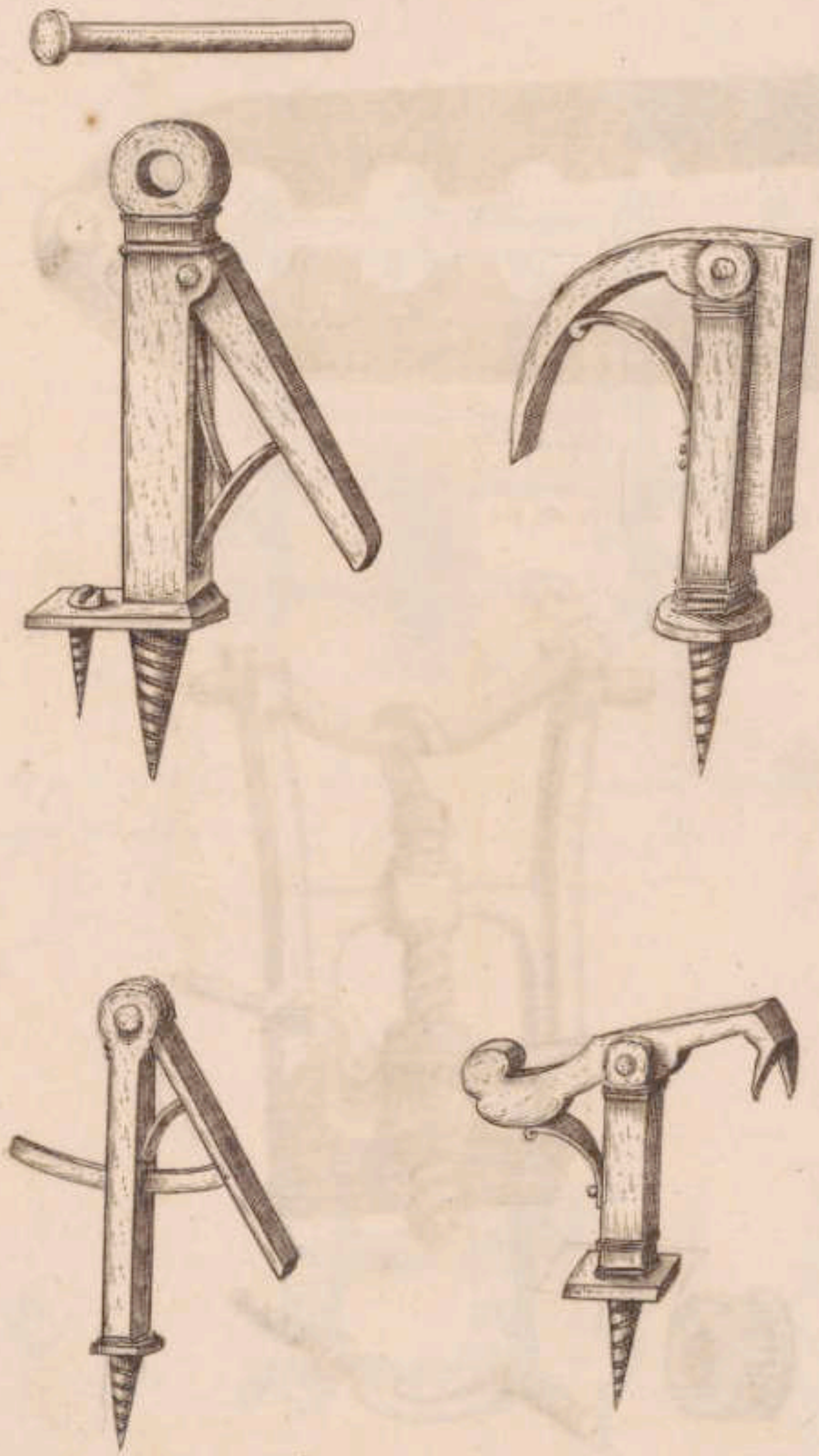
Cypinces pour soustenir vne chesne cependant qu'on a lime aueq la limasourde.



Compas pour couper des Barres de fer 1.

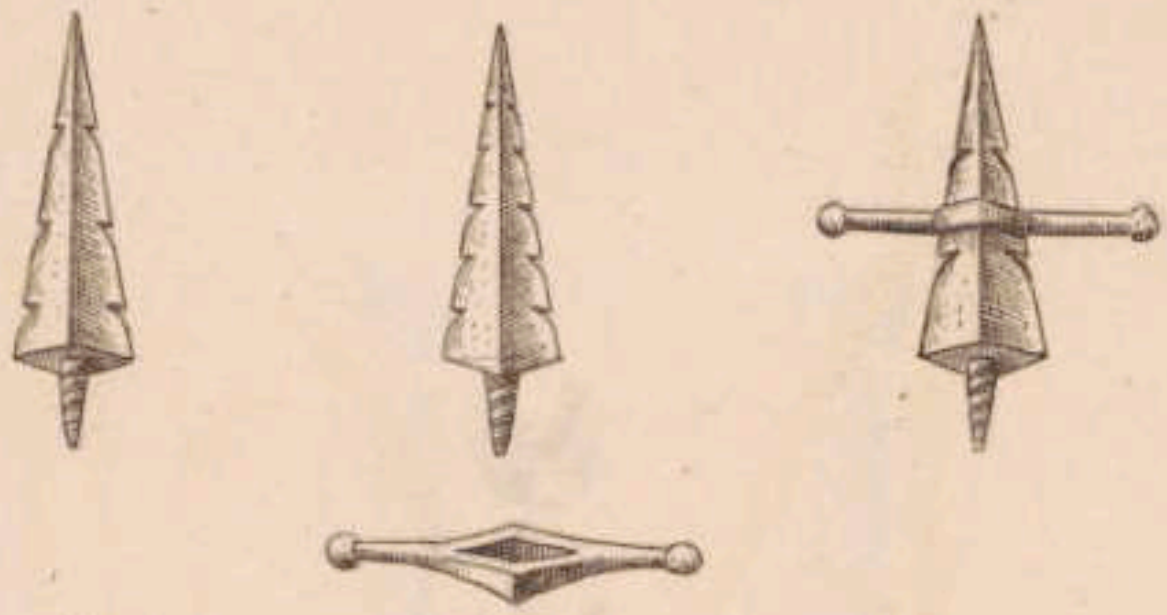


Vys sans fin propre pour forcer et Rompre des Barreaux de fer 1.

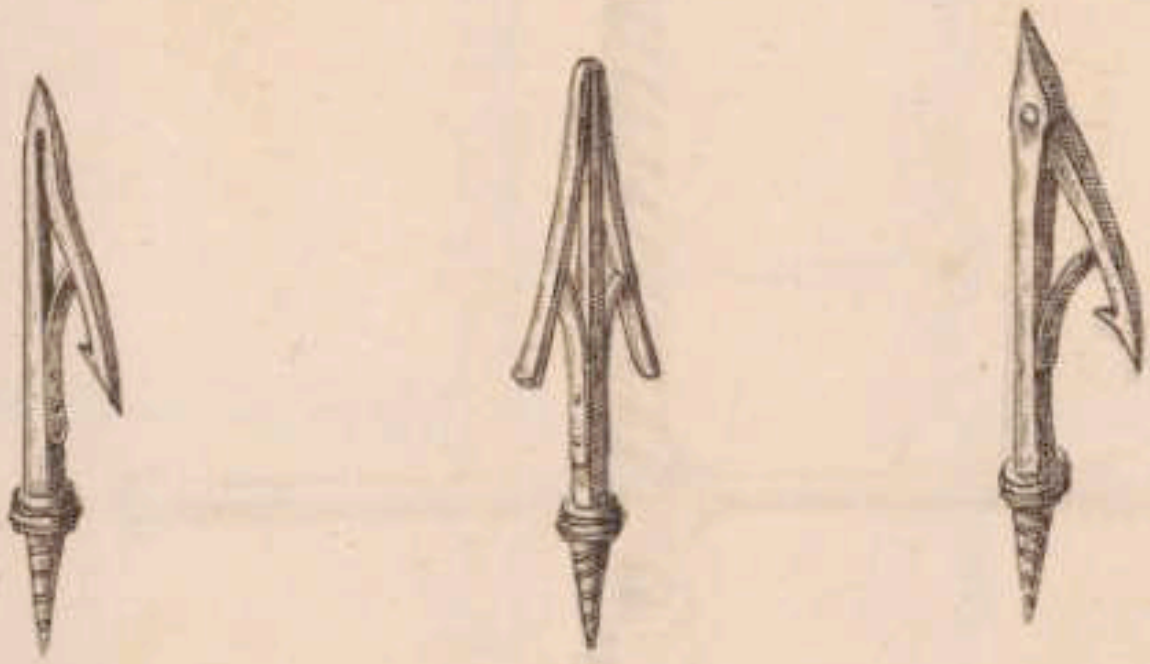


Quatre differentes souris ou Instruments de fer propre à attraper de pont-levis

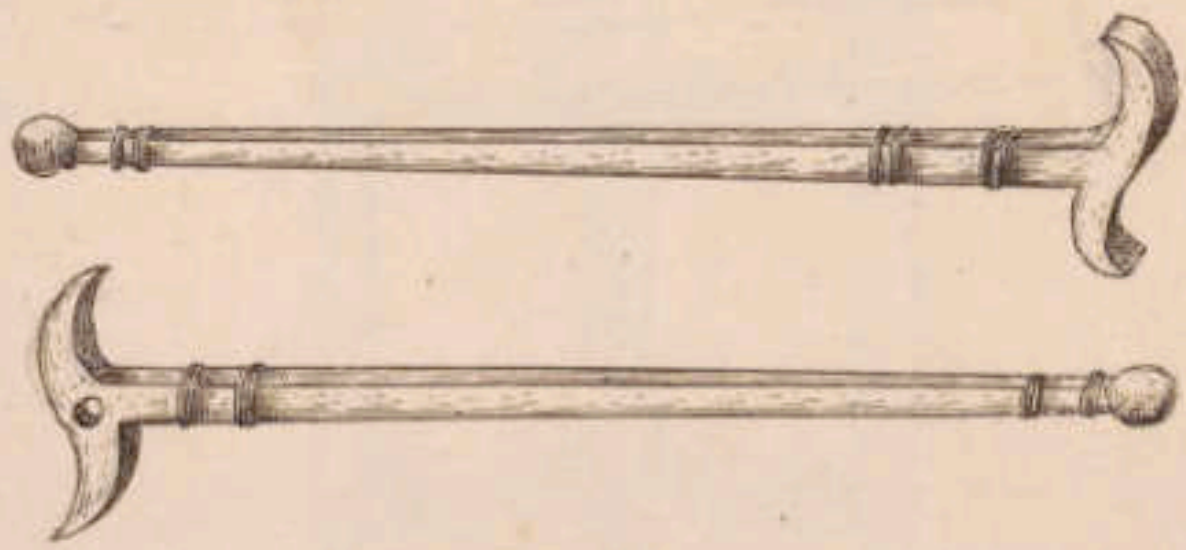
Ungues des Serpents propres pour attraper vn pont levis.

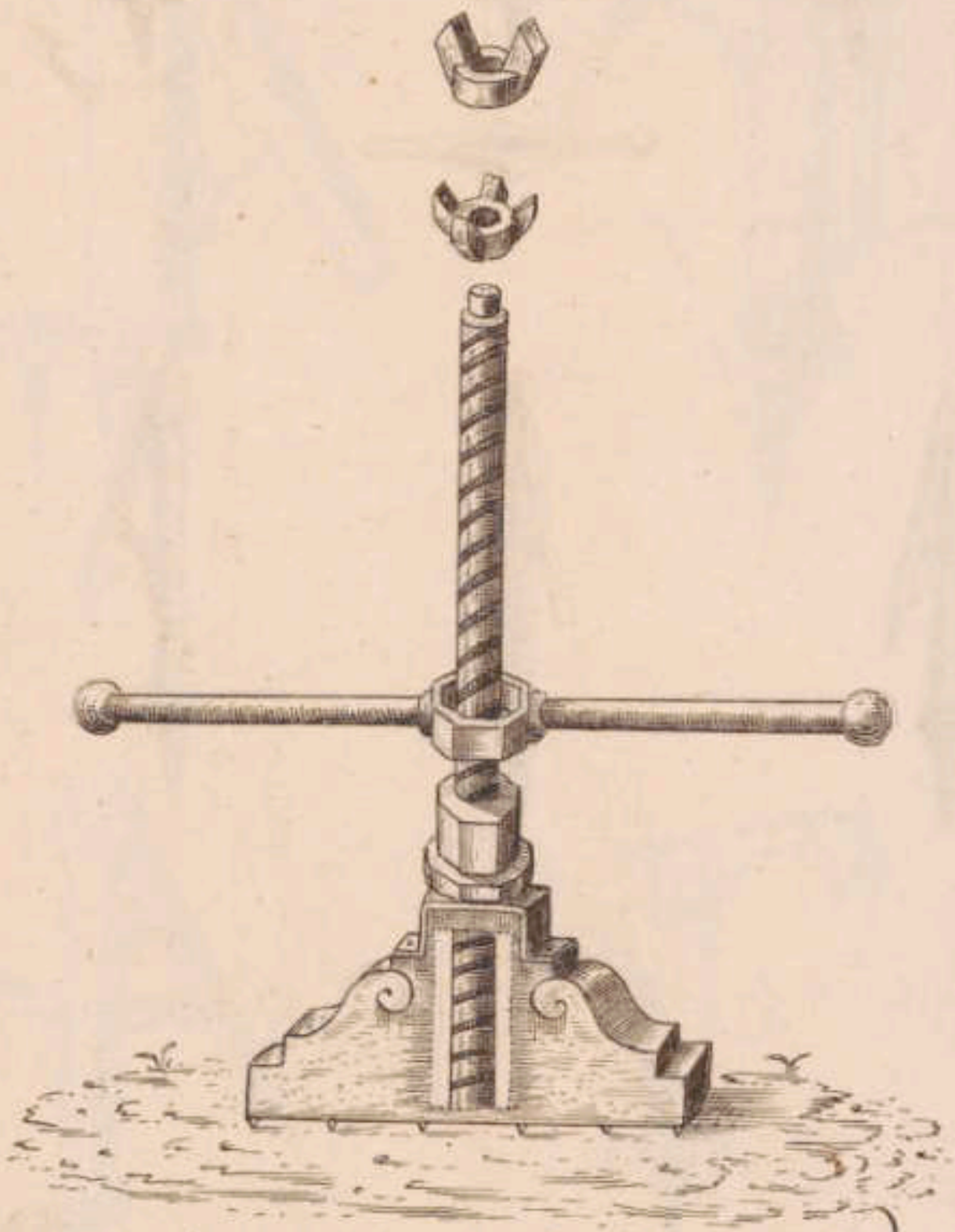


Ressorts pour attraper des portes

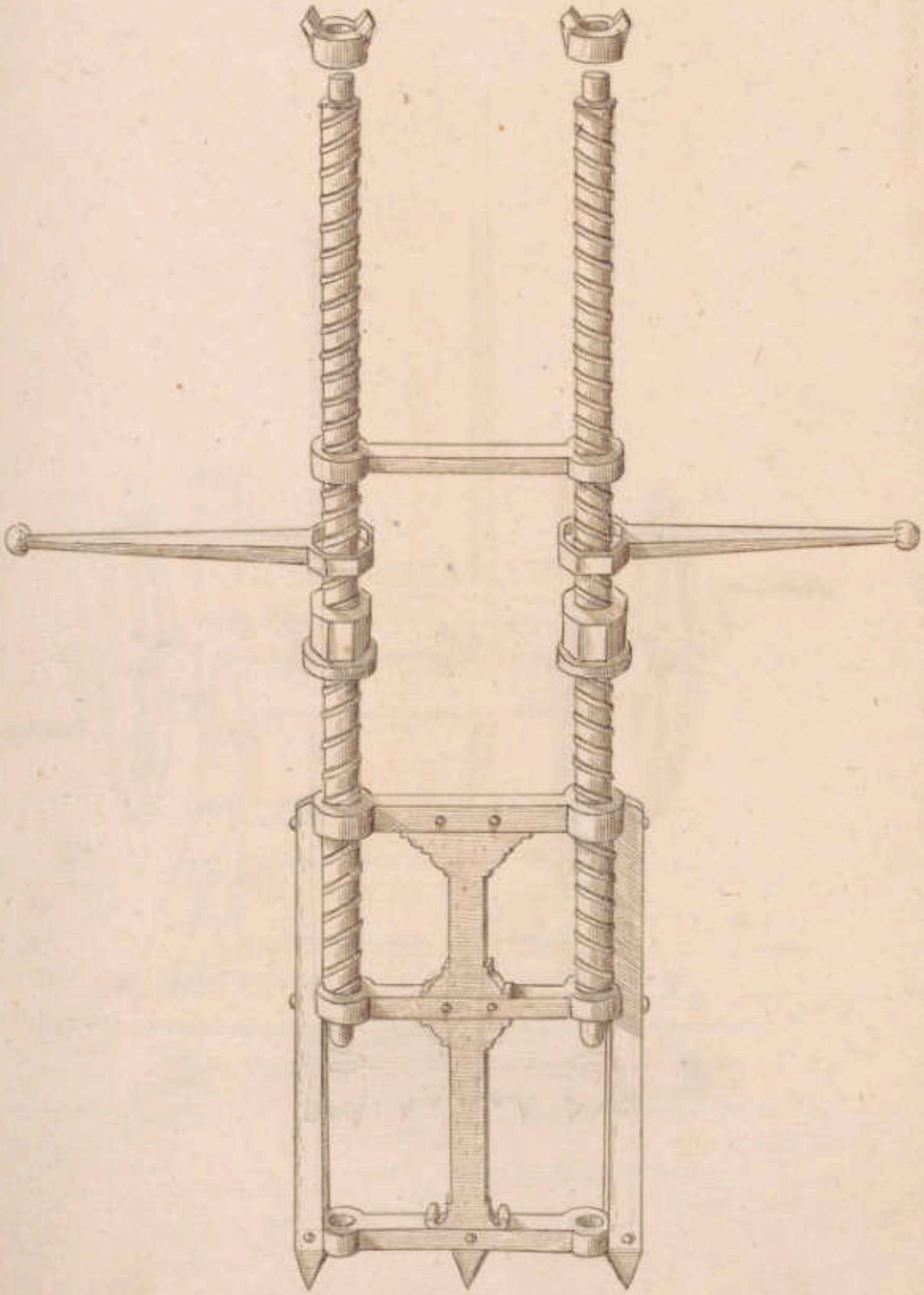


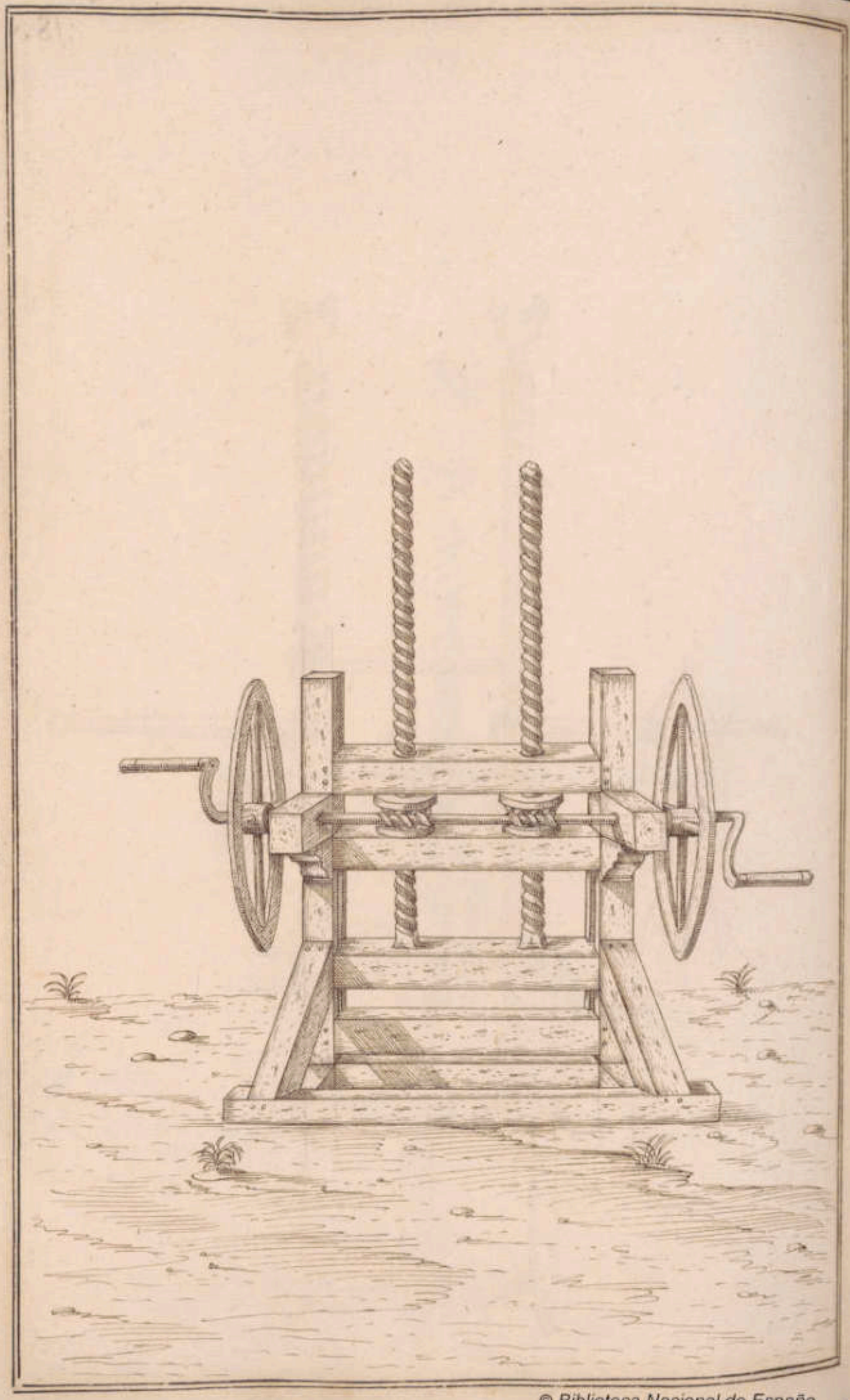
Barriaux de fer propre à forcer et Rompre Pallissades



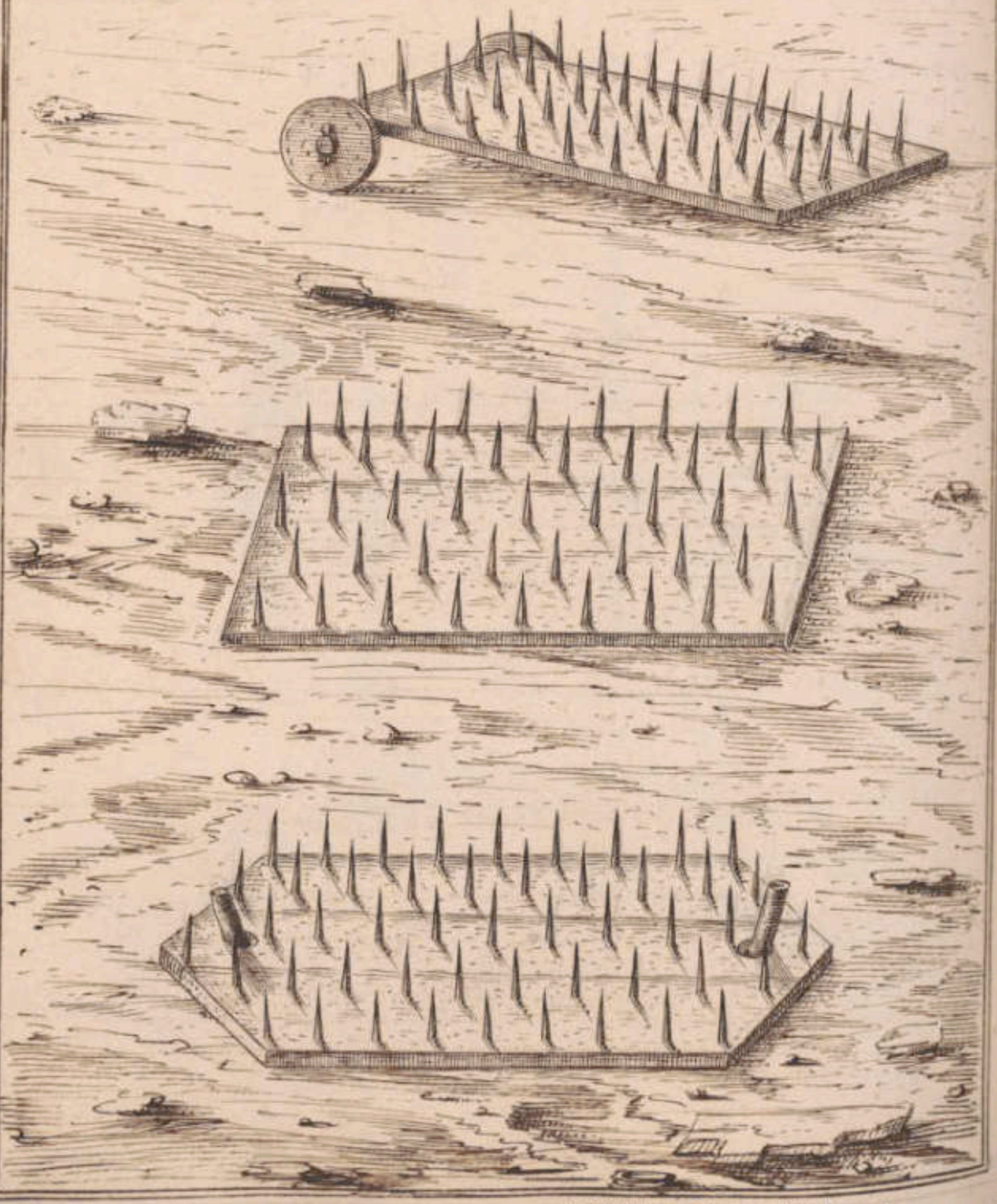


Cy Instrument ou vys pour remuerser vne Muraille ou postes Jallissades ou aultres choses semblables.





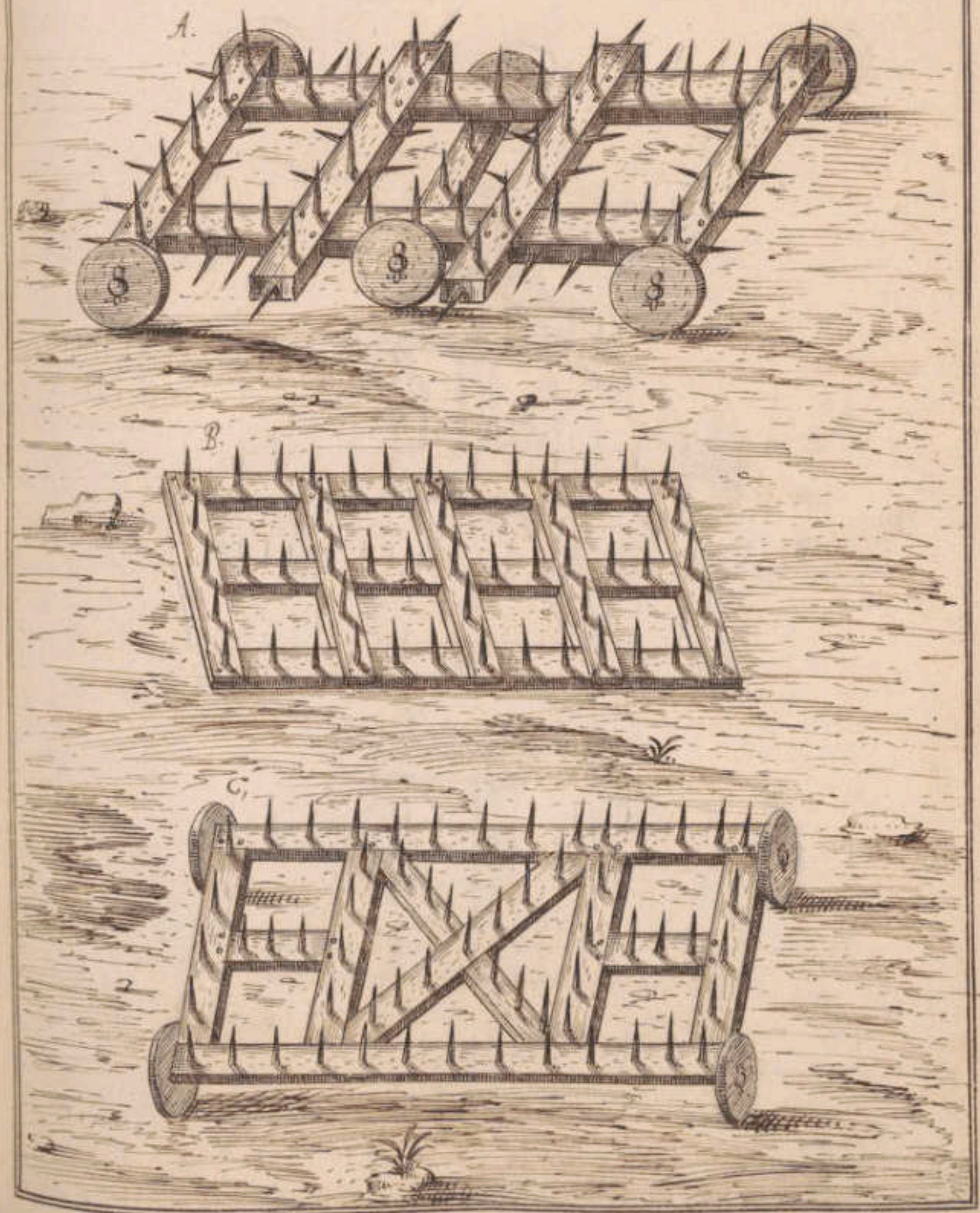
Attrappes pour mettre dans de Breches ou adreznes, lesquelles apres les avoir mis le faut couvrir d'un peu de Terre affin qu'on le decouvre point



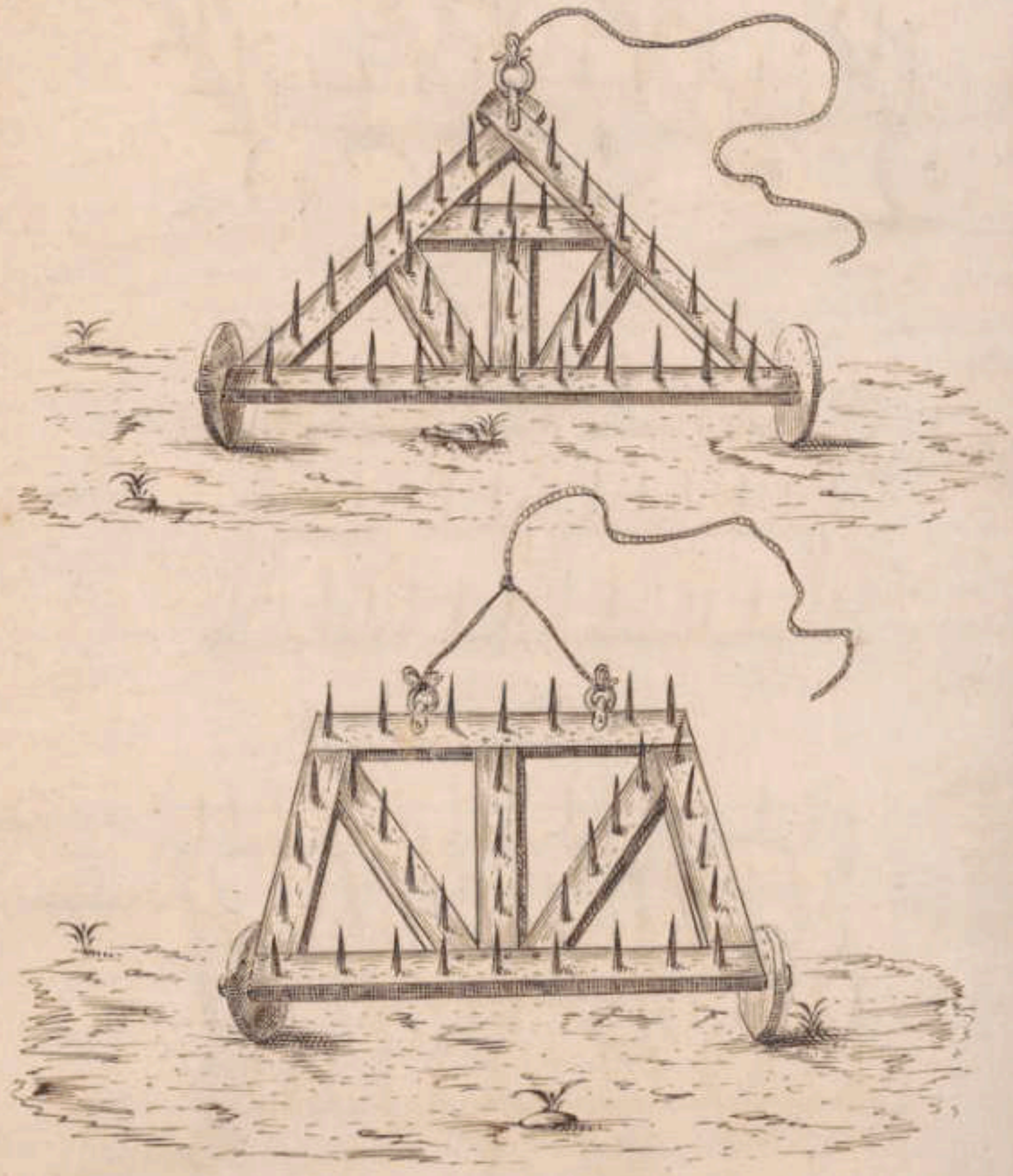
A. Attrappe pour deffendre vne Breche ou Barricade.

B. Autre attrappe pour Jetter dedans lue Breche ou aduenue.

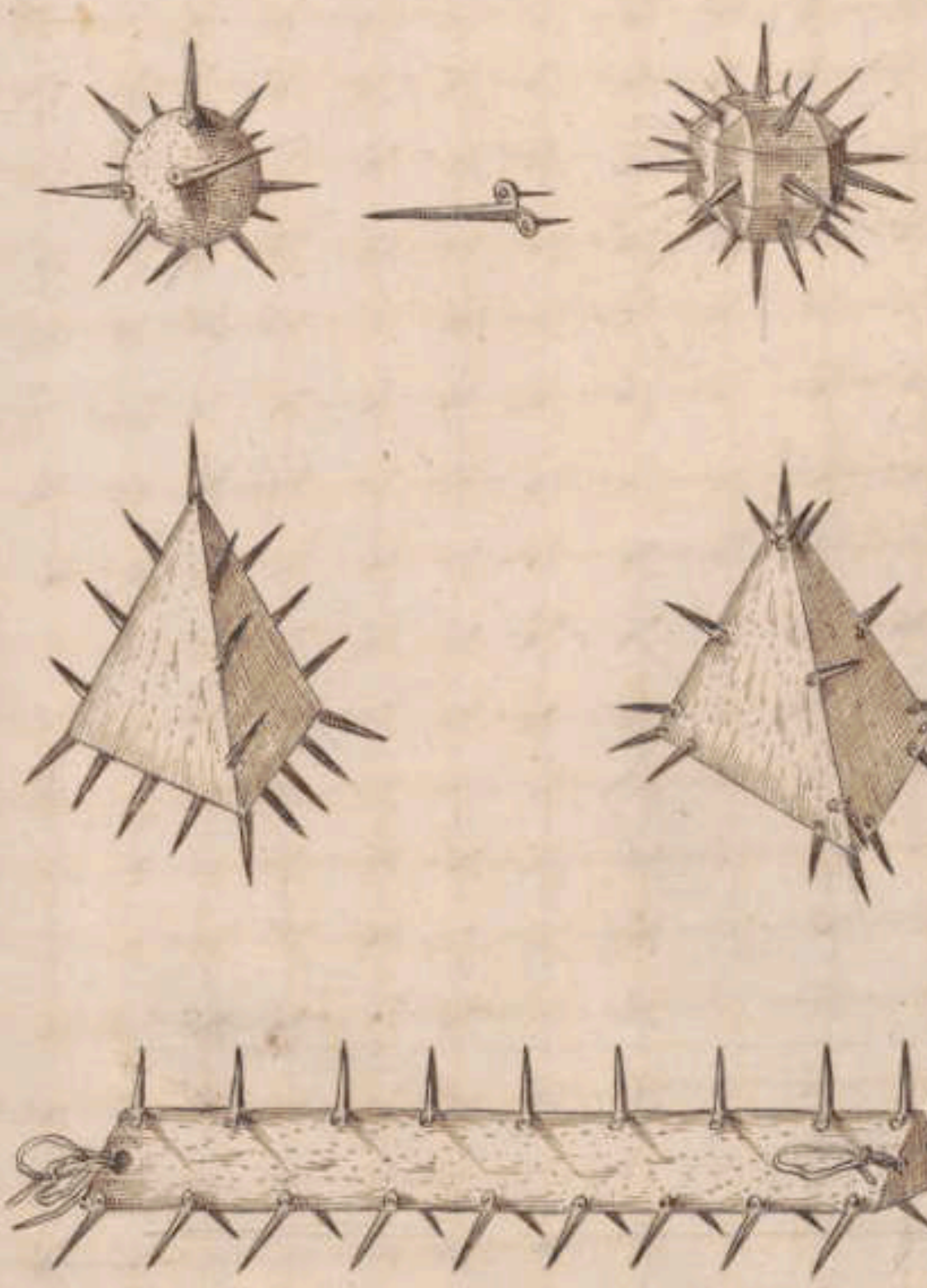
C. Attrappe sur quatre petites Roues, laquelle faut tenir enchesnee auec des pillots, affin que l'Ennemy ne l'emporte point.



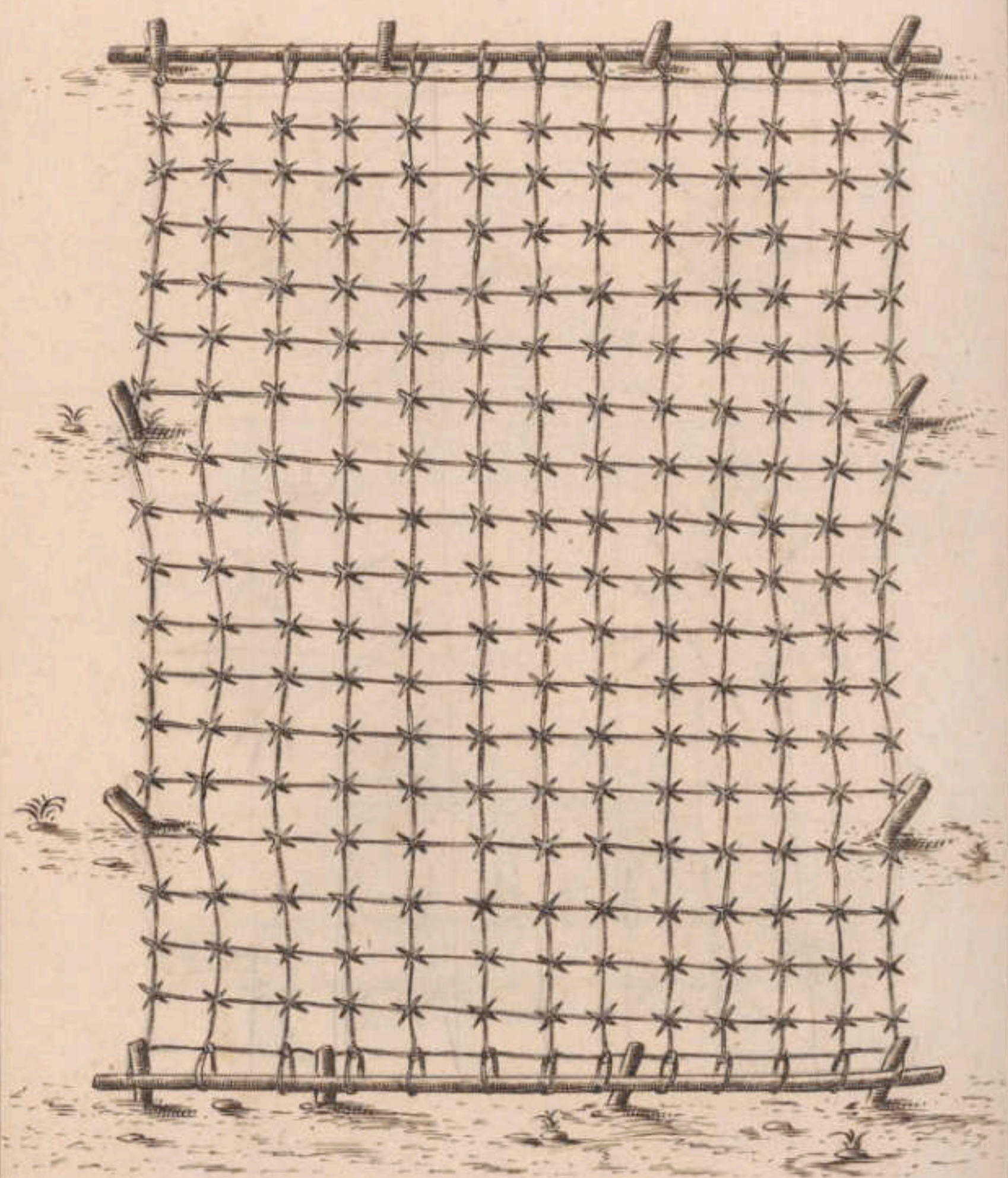
Attrappes pour aualler auecq une Cordes ou chesnes sur une Bregrde ou guil faut monter.



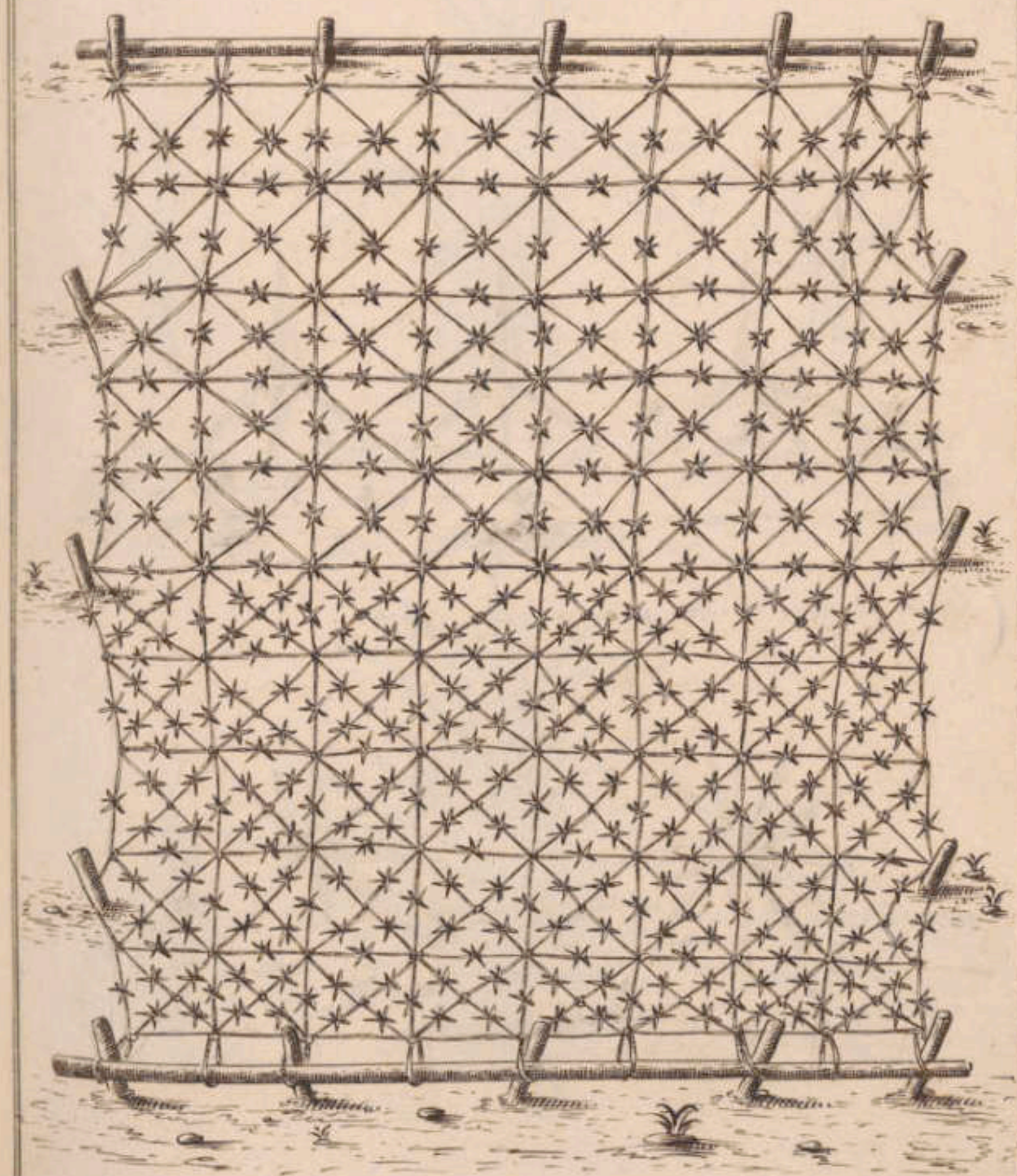
Autres Instrumens fait en Attrappes pour Jetter dans Brecches
inaduennues, lesquelles l'on peut faire aussy Creuze par dedans, Et
le Sarger de Poudre, et accommoder Jauecq vne fasce pour le faire
Creuze, Jins apres.



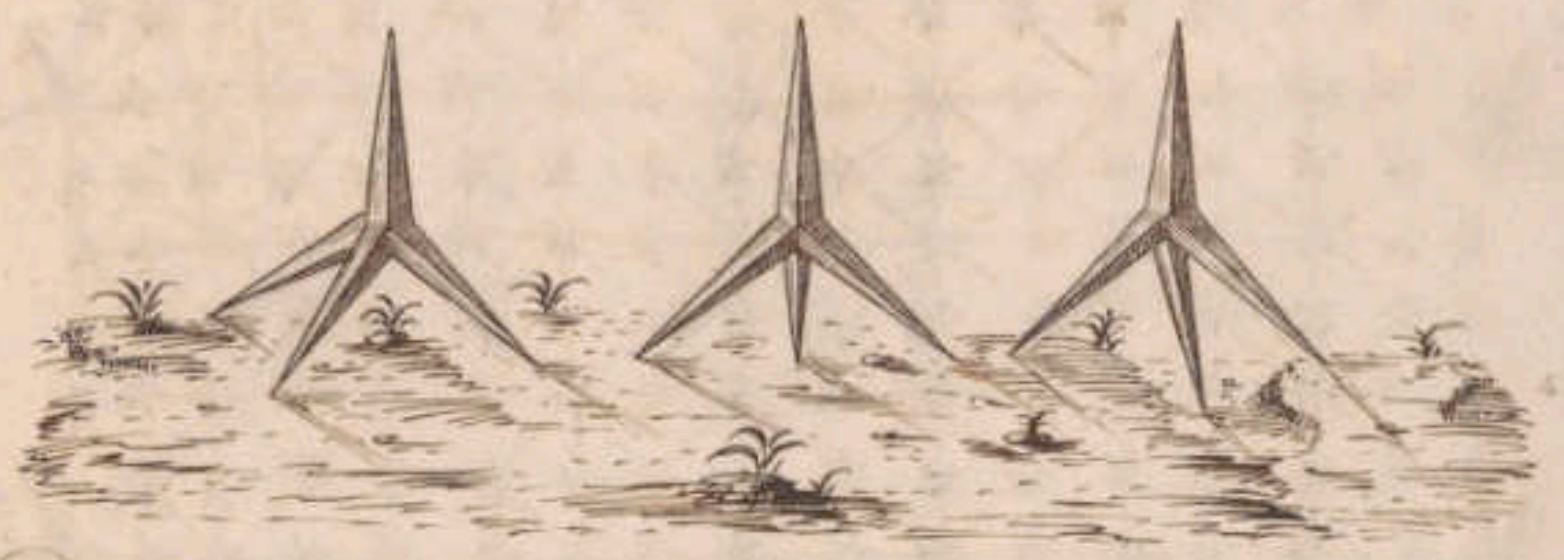
Un Re ou filet entrelasse plein de chausses trapes propre pour tendre sur les digues et bademens ettroittes. lesquelles ont s'en Servoit a la Contredigue d'Amues ~.



Autre maniere de Re en filet pour le mesme effet.

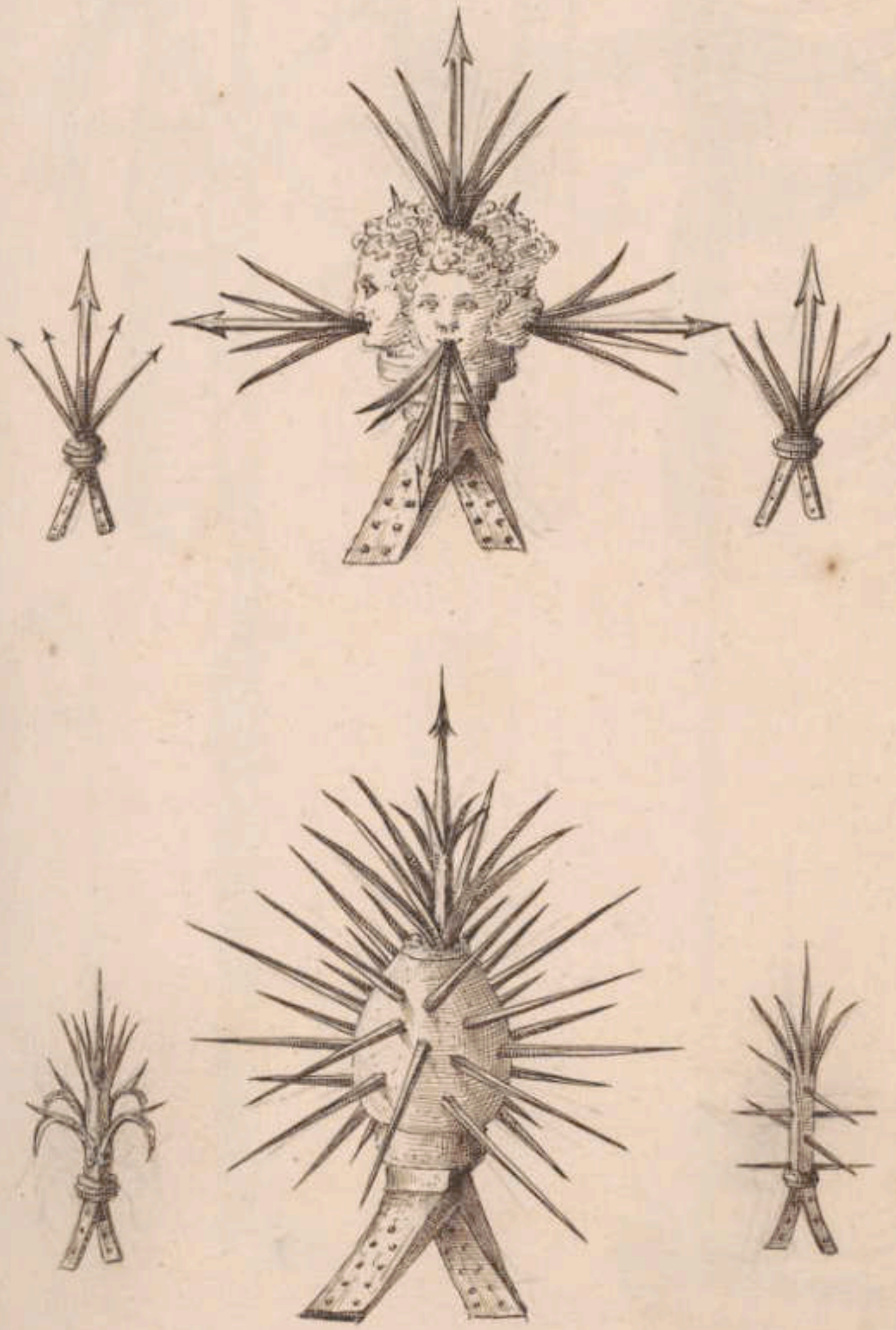


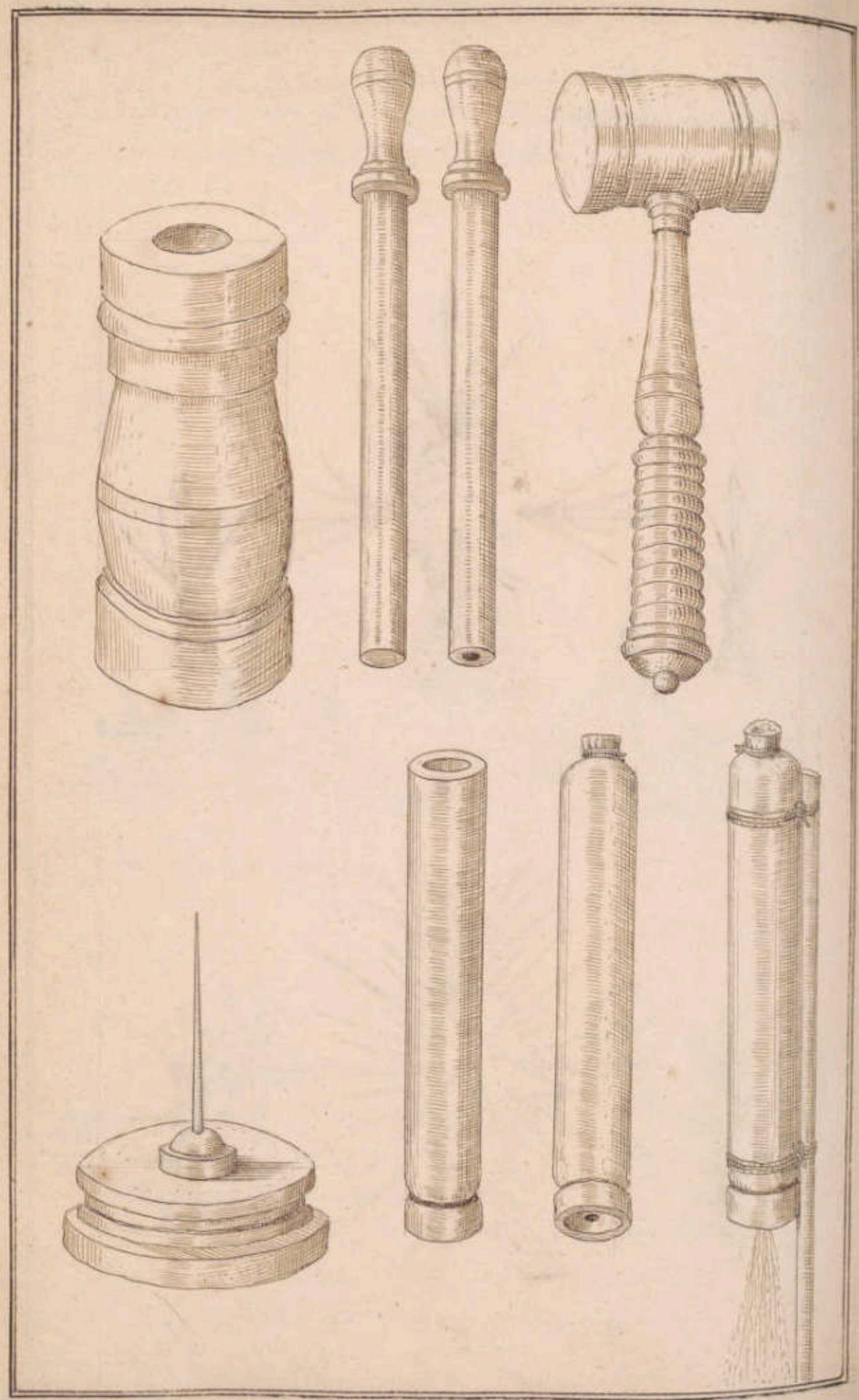
Caussses attrappes ordinaires, Lesquelles L'on semme sur les chemines, et Breches et aduennes autres lieux semblables.

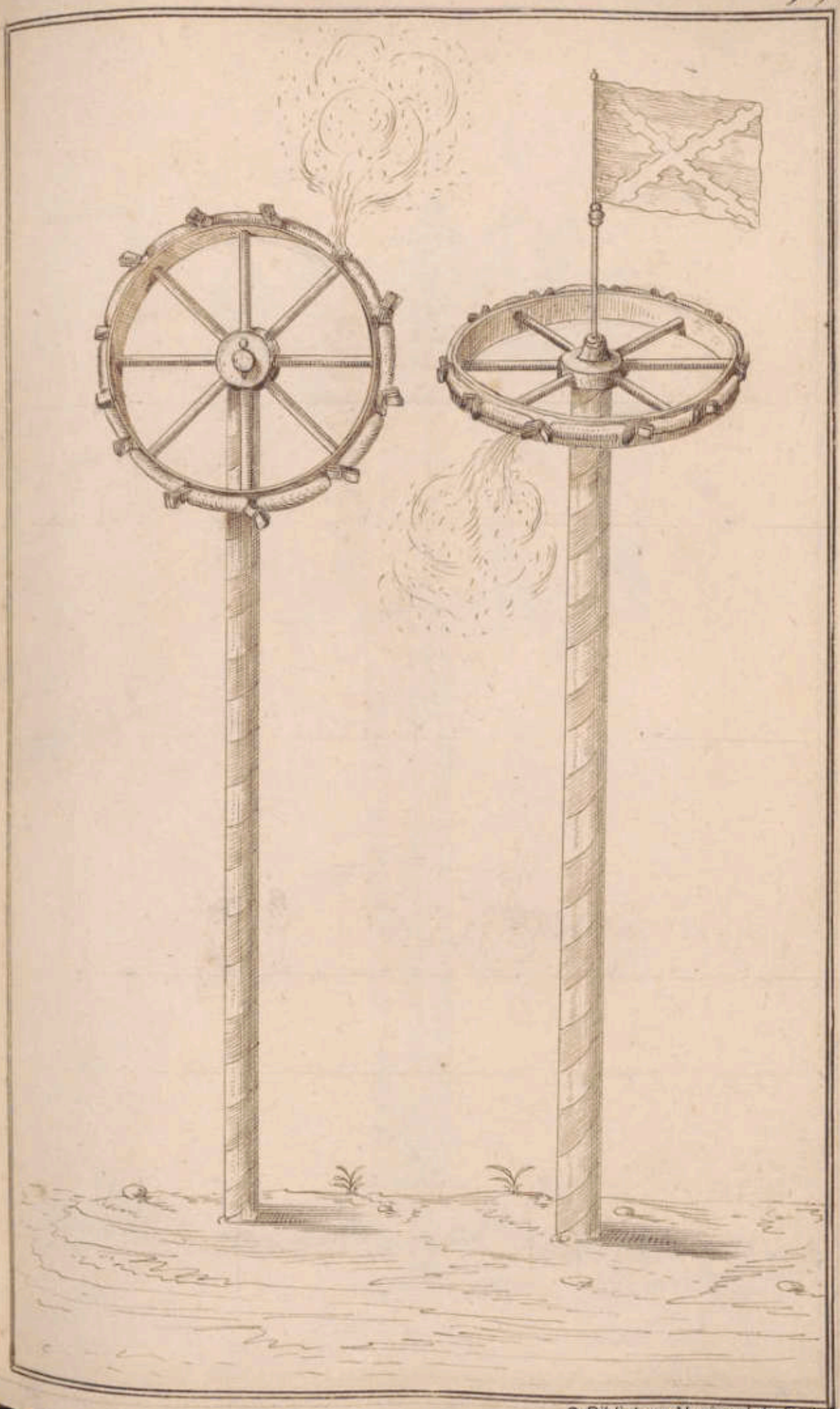


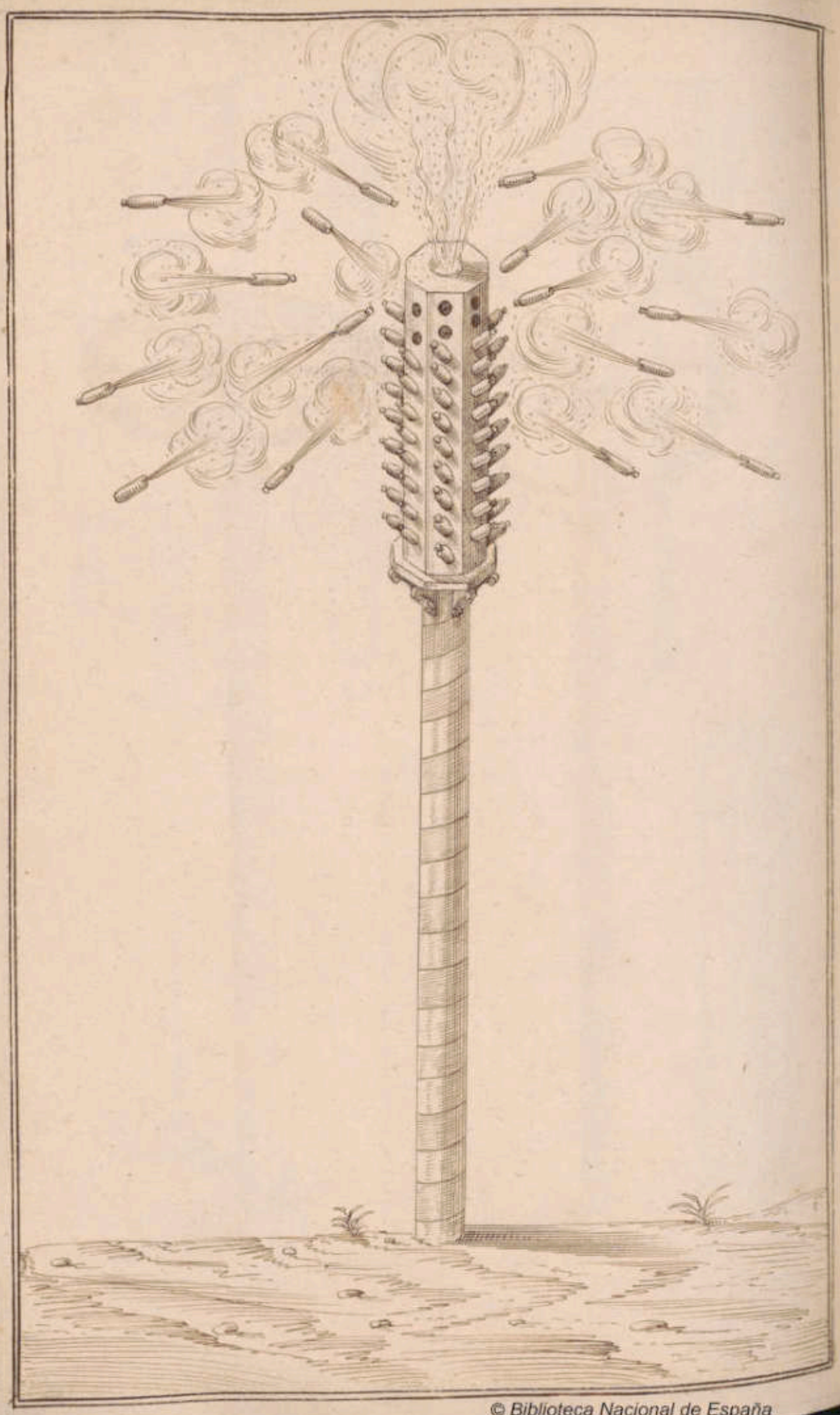
Caussses attrappes doubles pour le mesme effet.

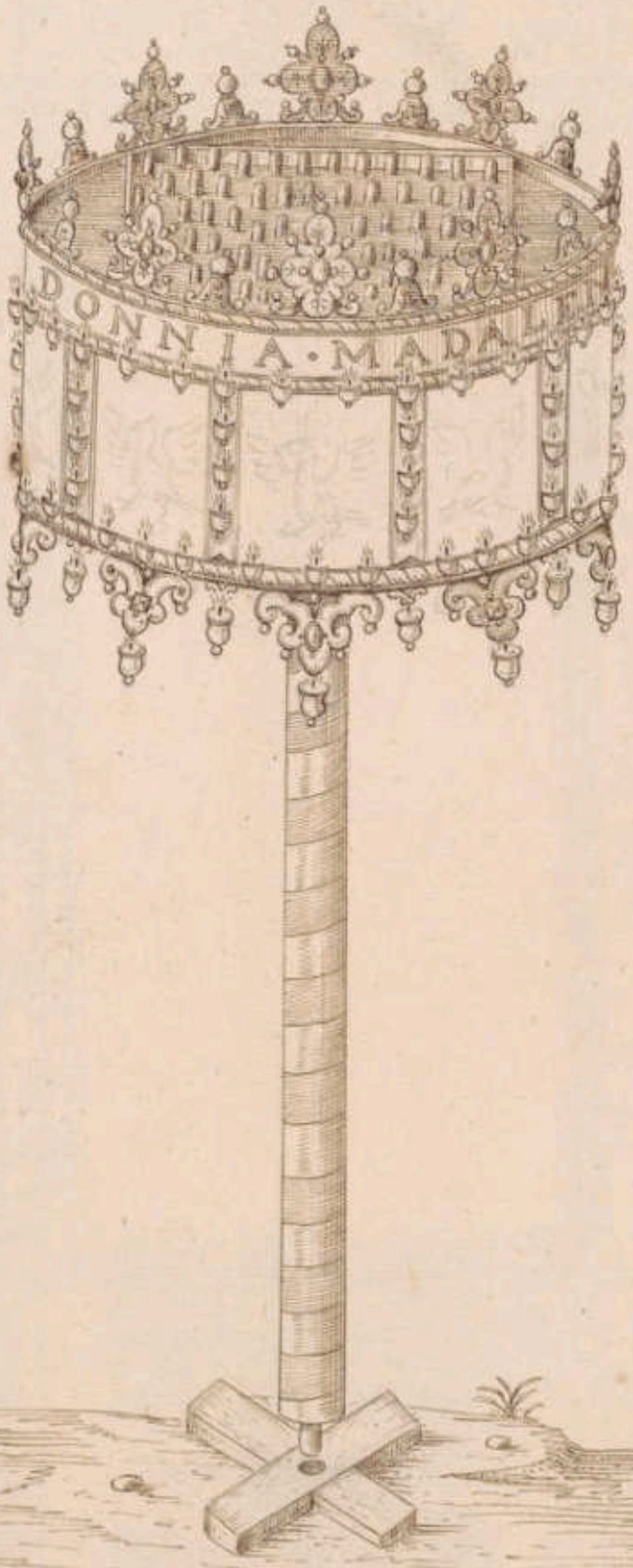
Aiglas et pointes de fer une encore la maniere pour les mettre et clouer sur les Retournés des fosses.

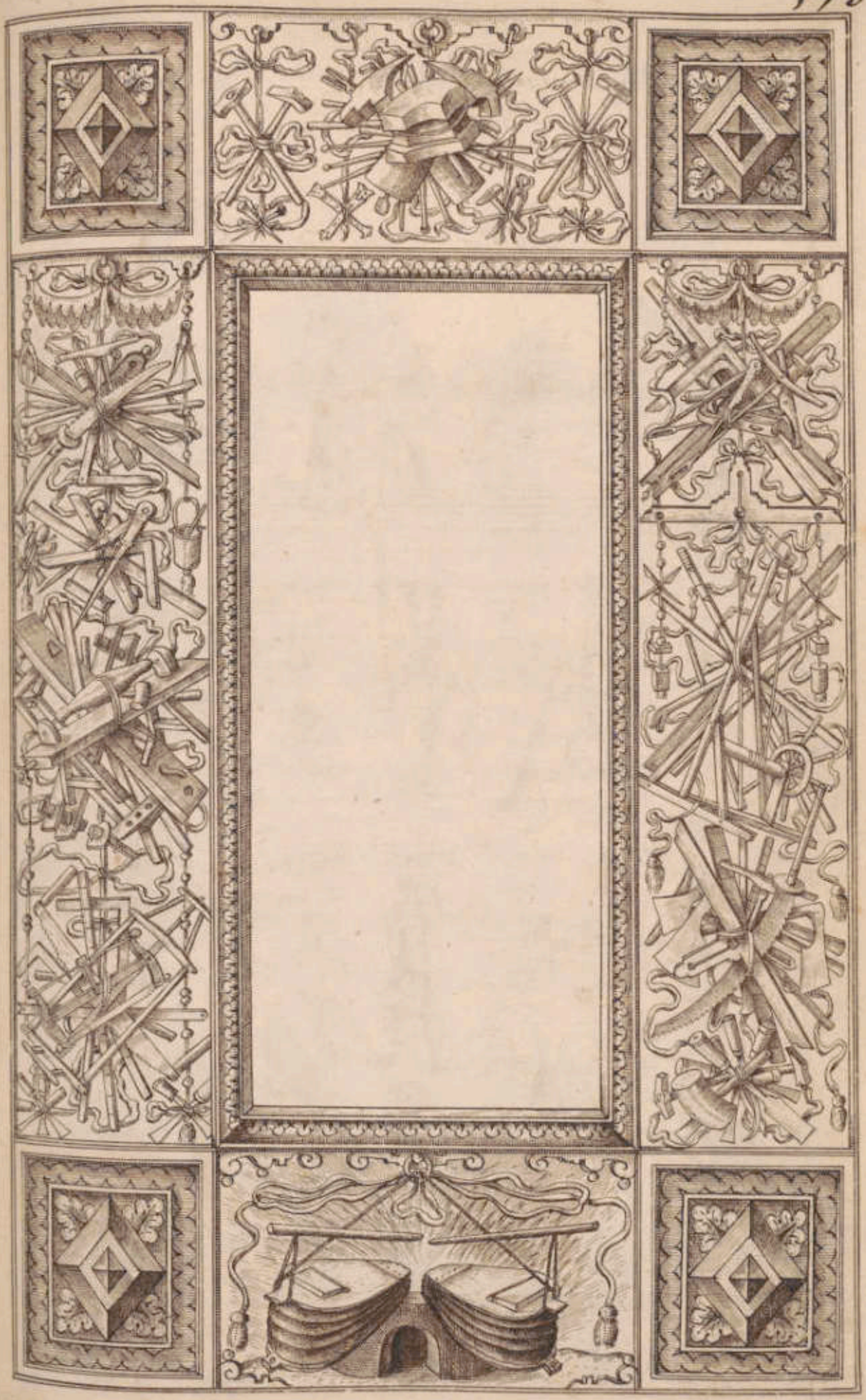


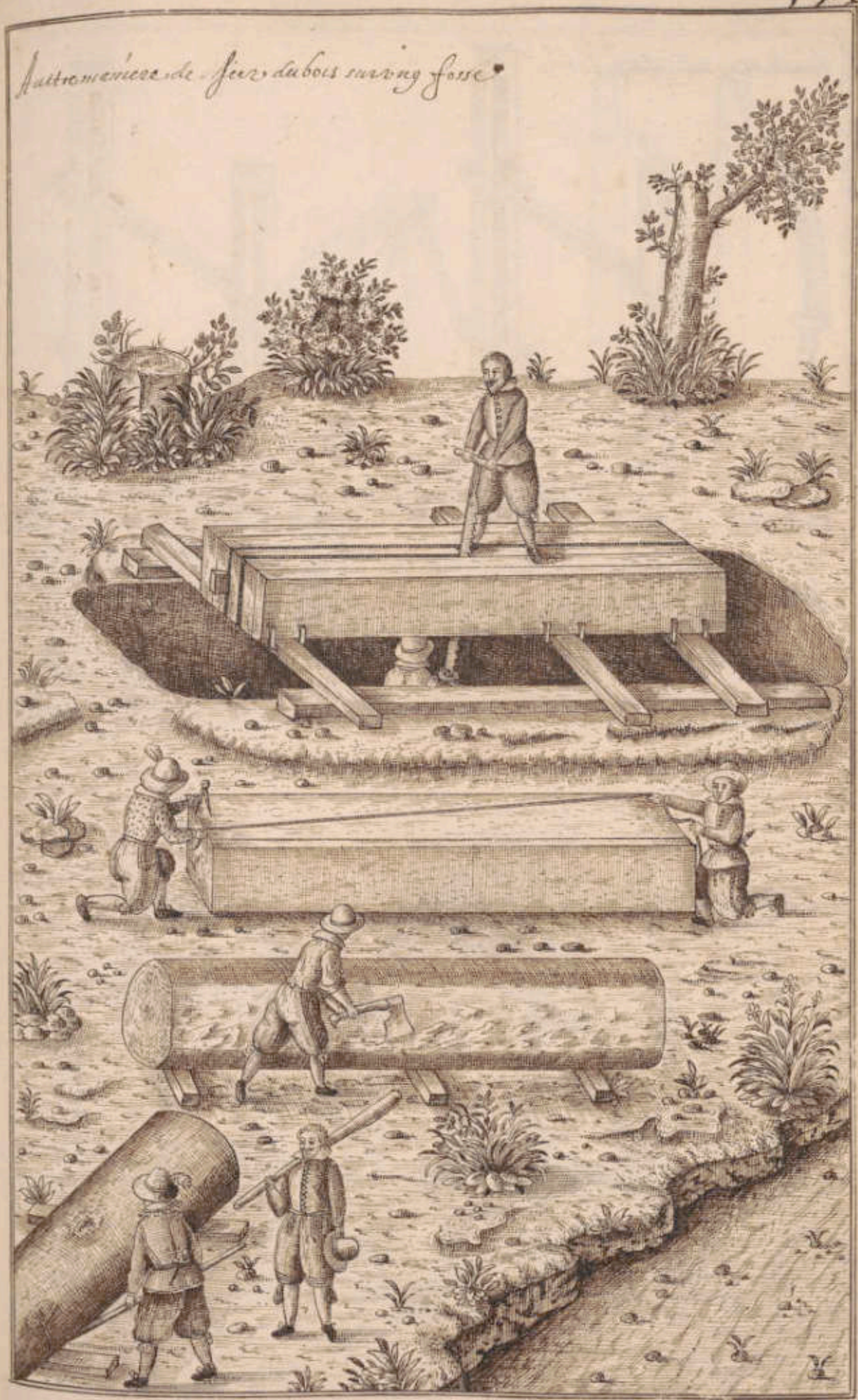










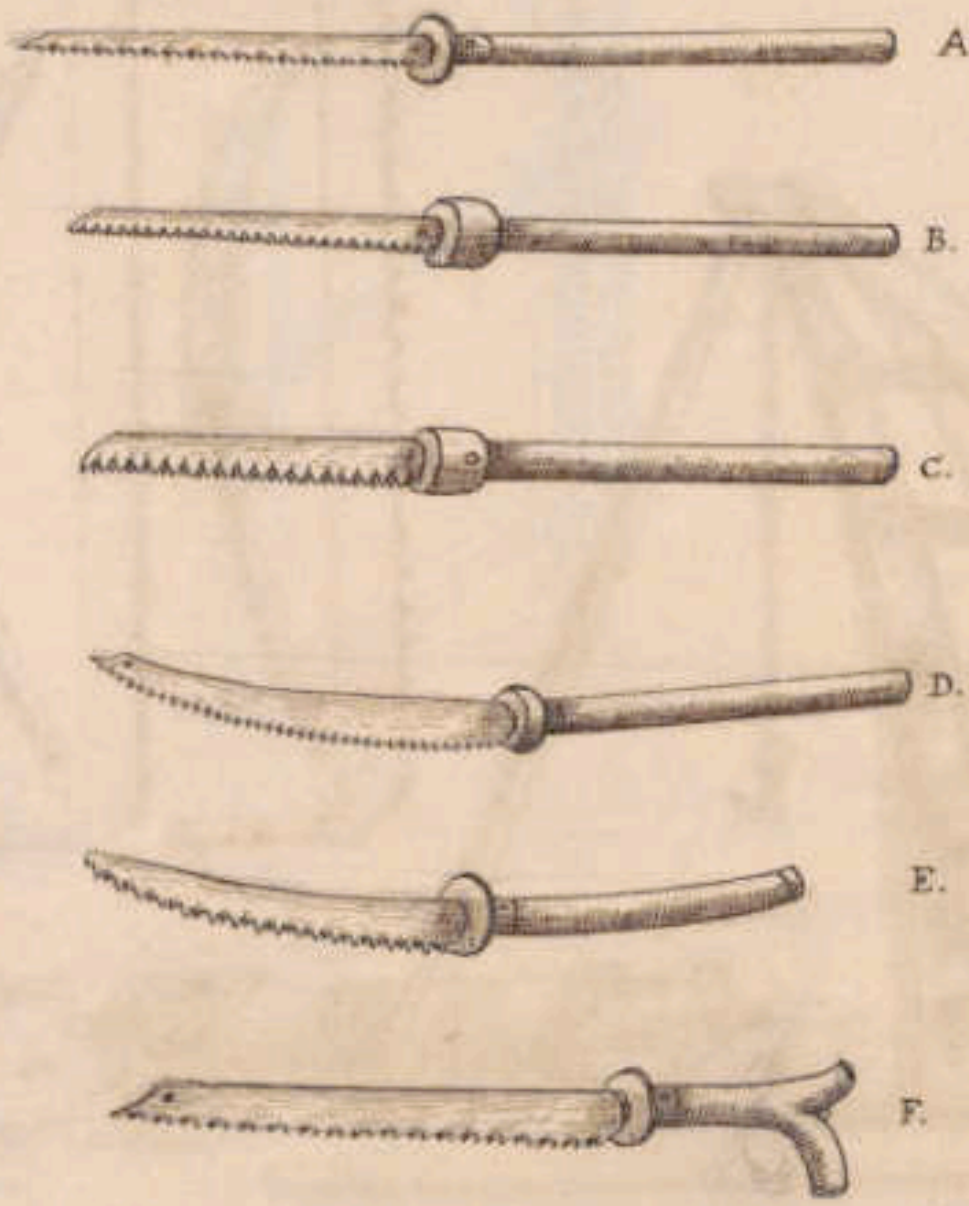


Cavalletts pour essier du bois

Autre Cavallet pour le mesme effect

Sieda Longue les Sieres

Les Sies pour taillier le bois



A. différentes sortes pour couper et scier des poutrelles &.

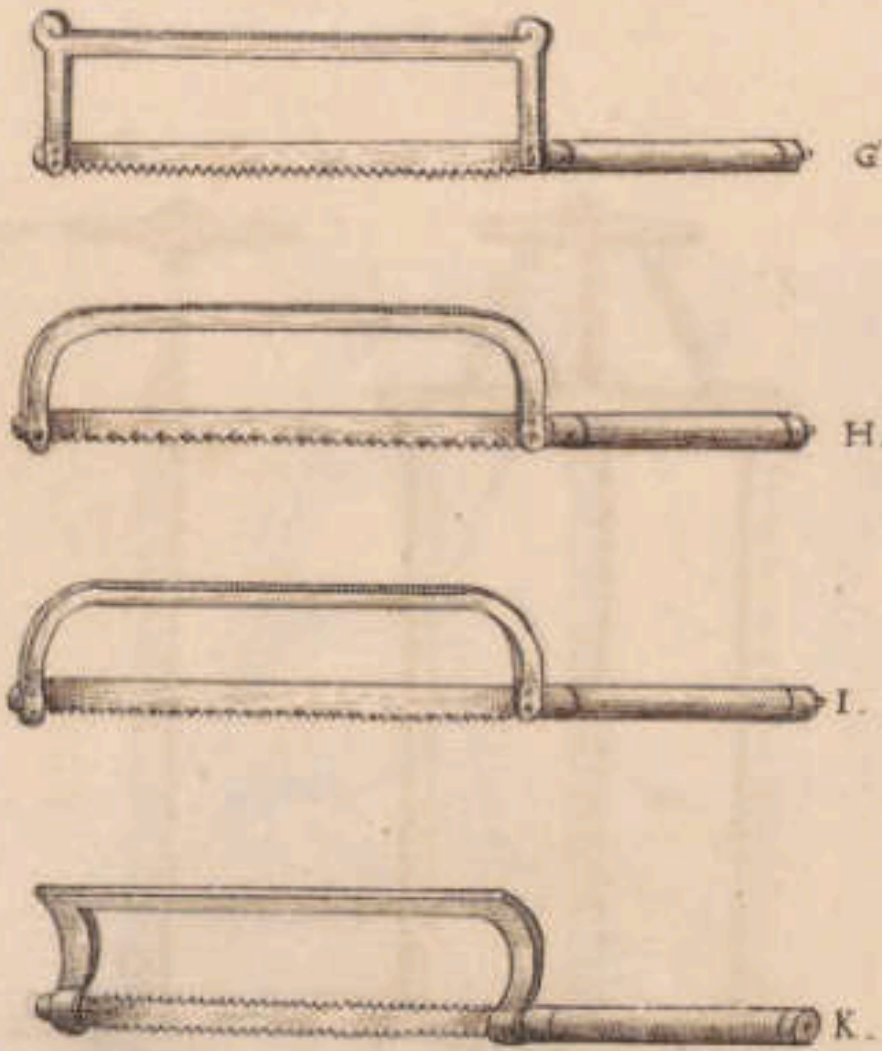
B.

C.

D.

E.

F.

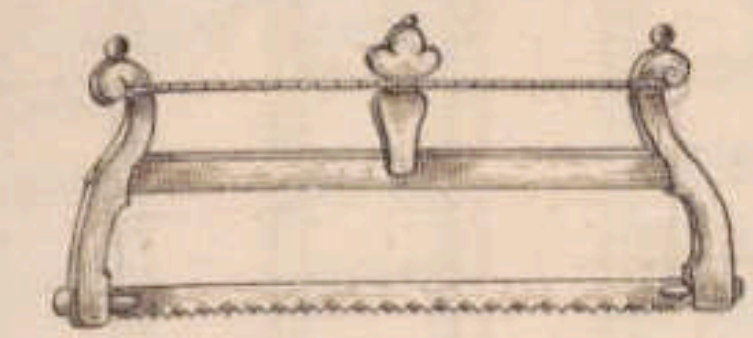


G.

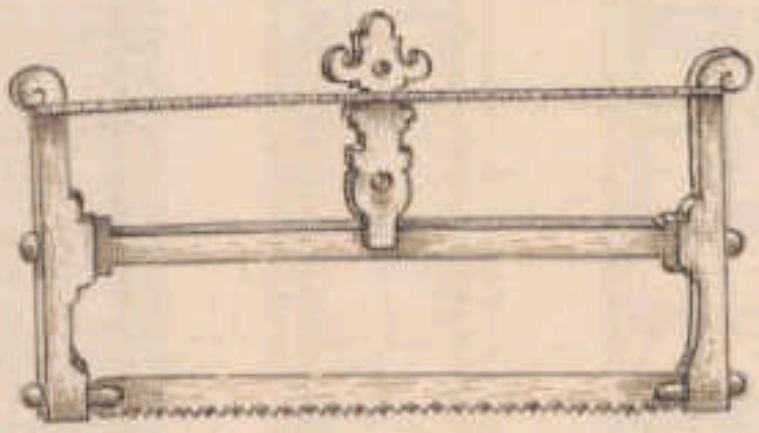
H.

I.

K.



L. Jus pour le mesme effect des precedentes



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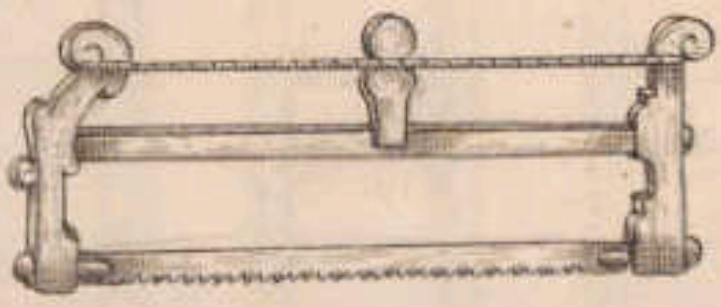

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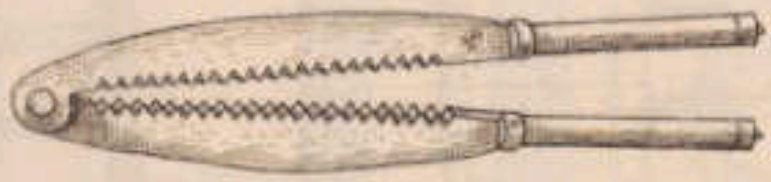
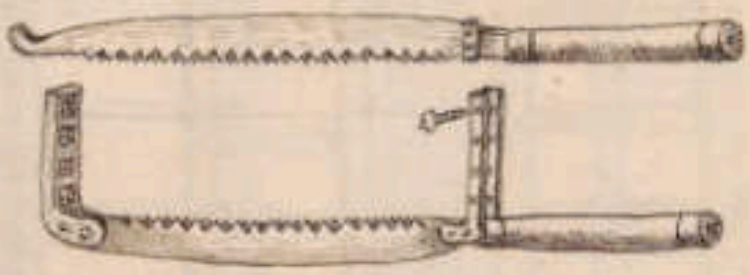
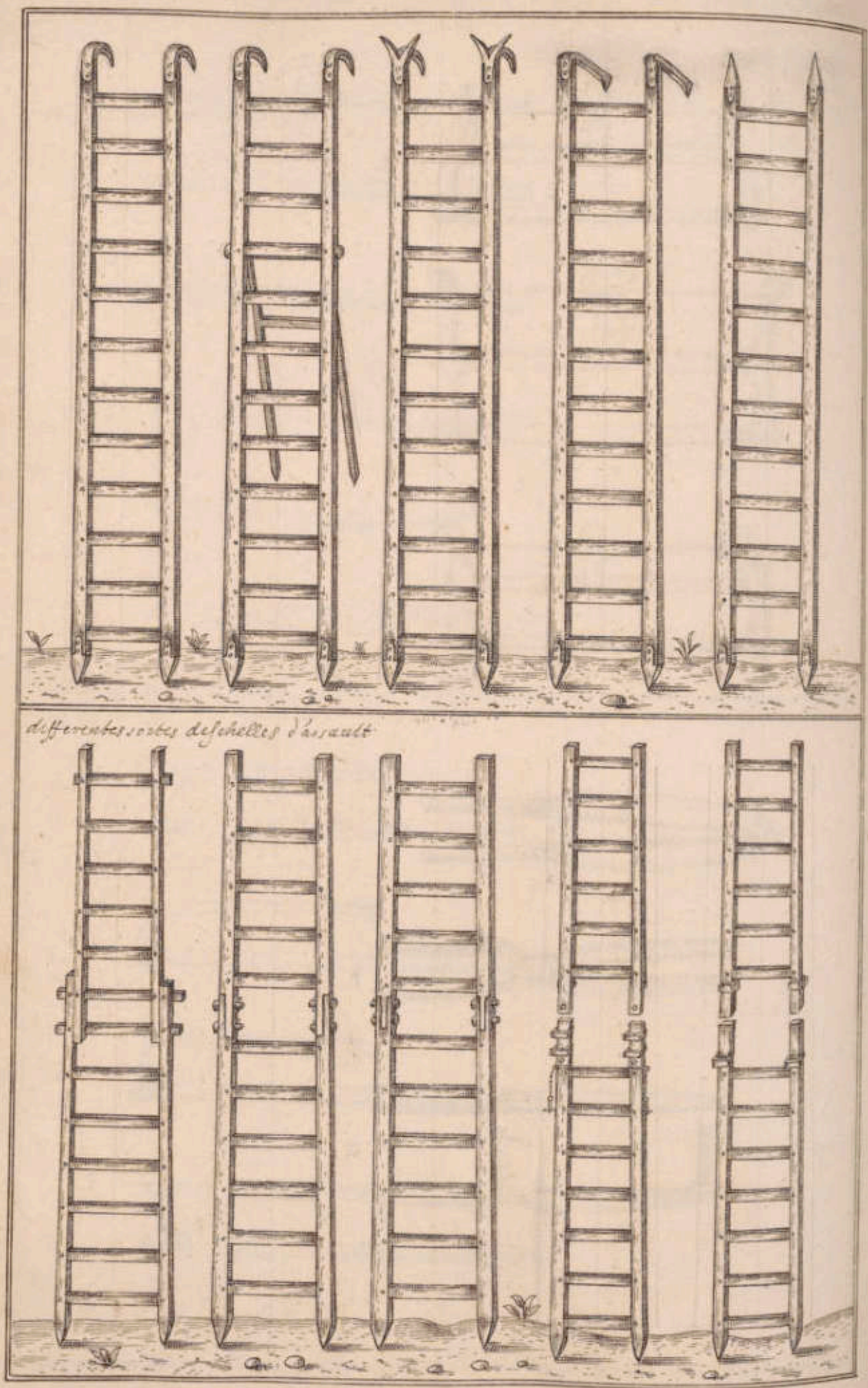


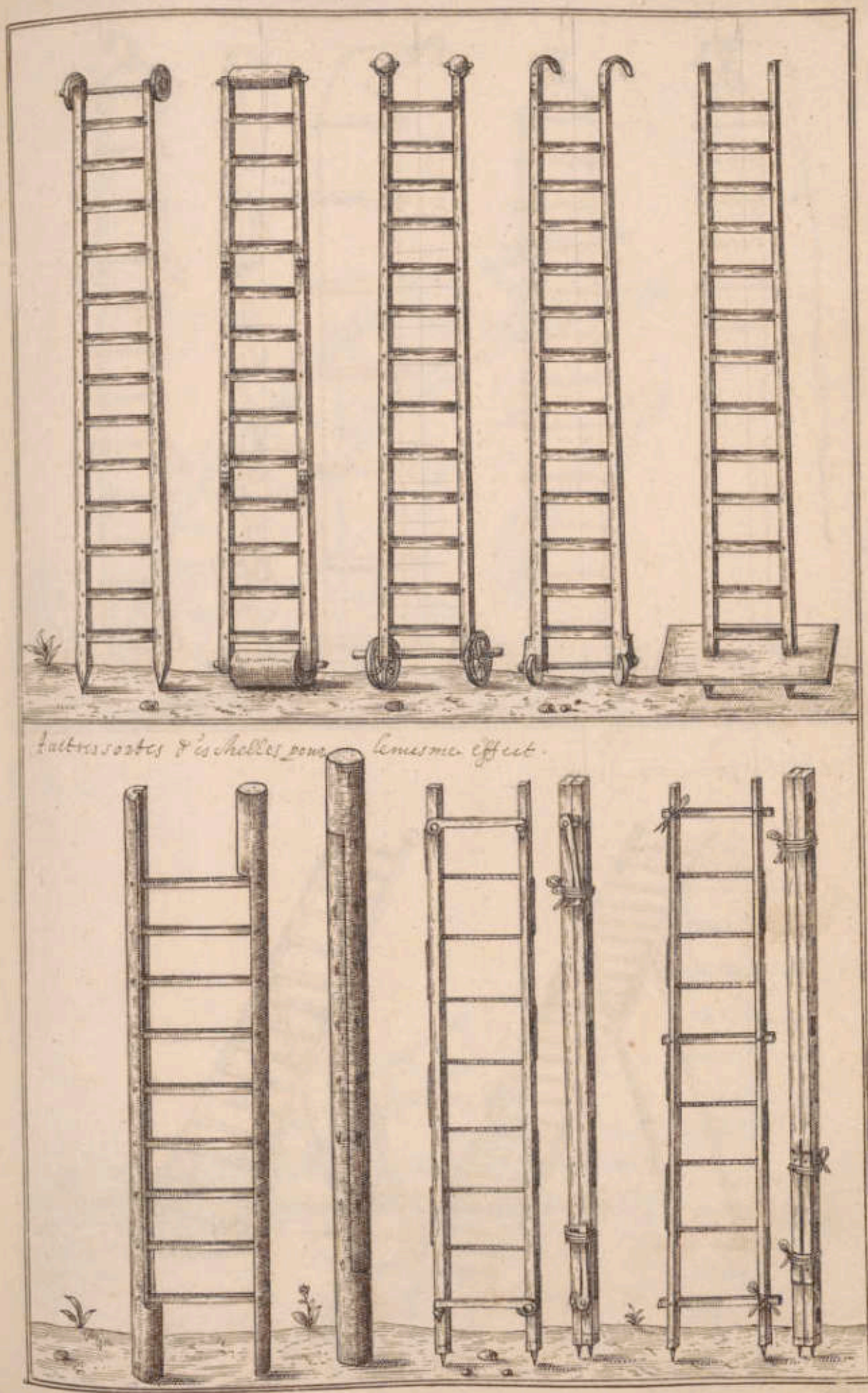
O. Autres jus pour le mesme effect.

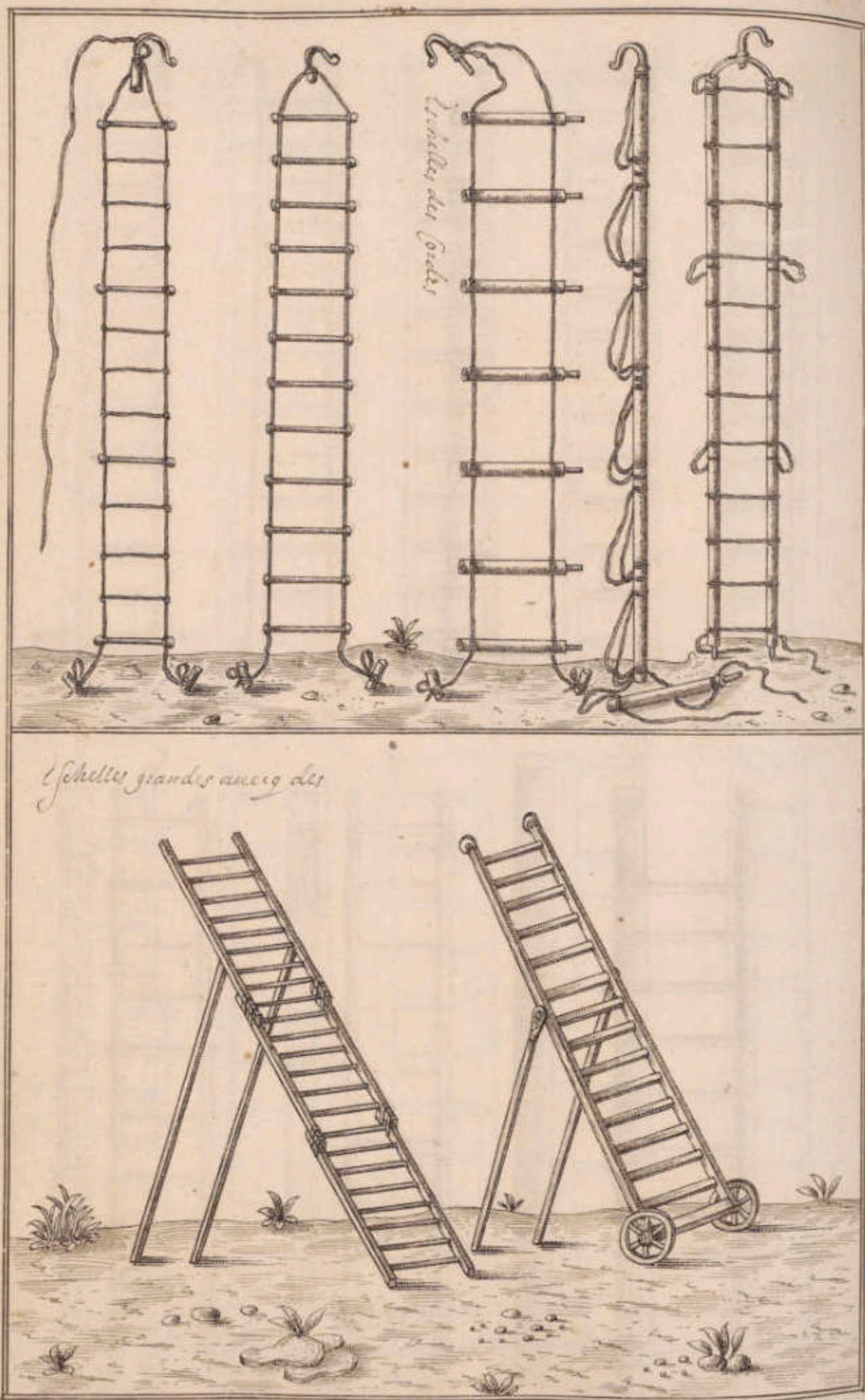
P.



Q.

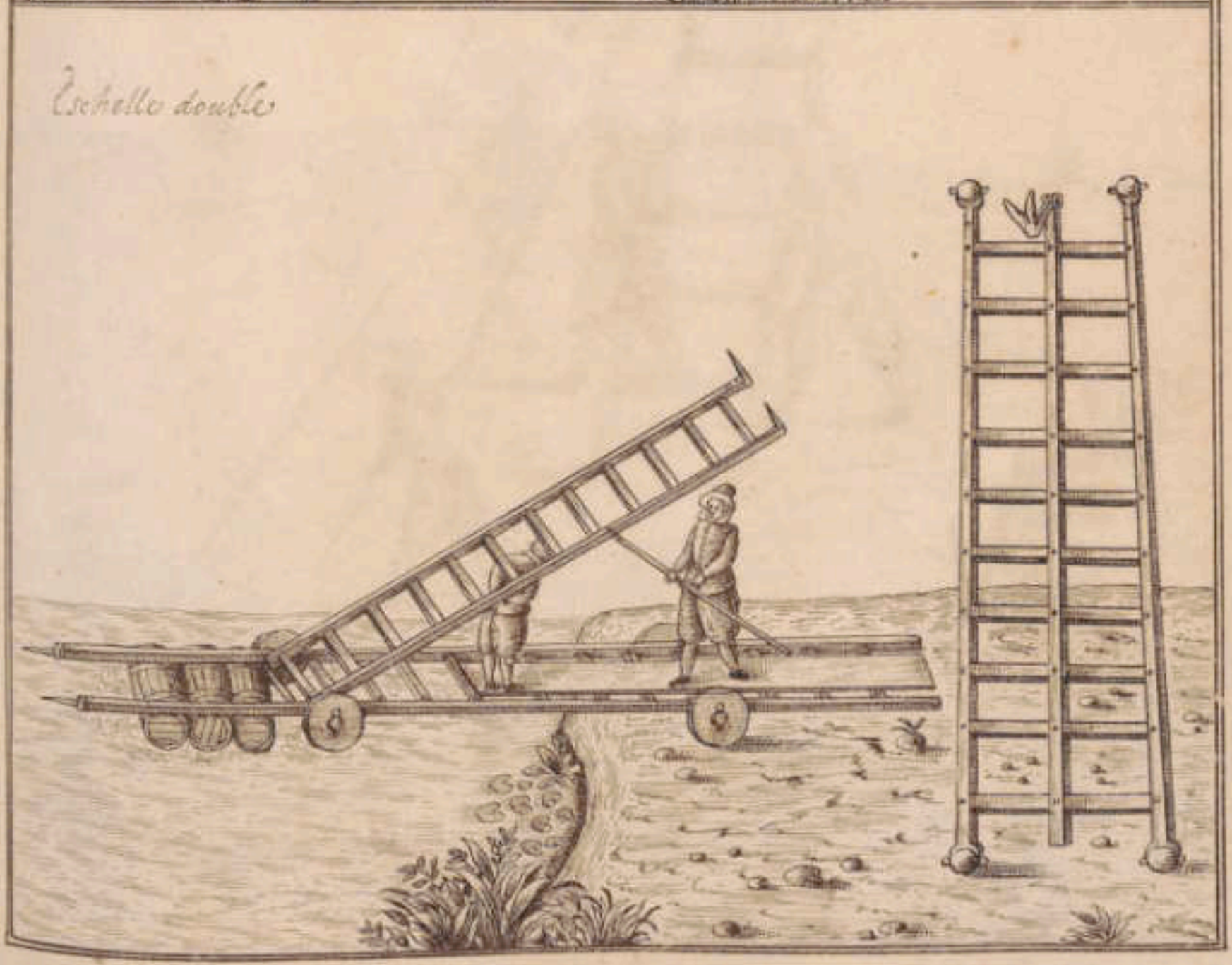






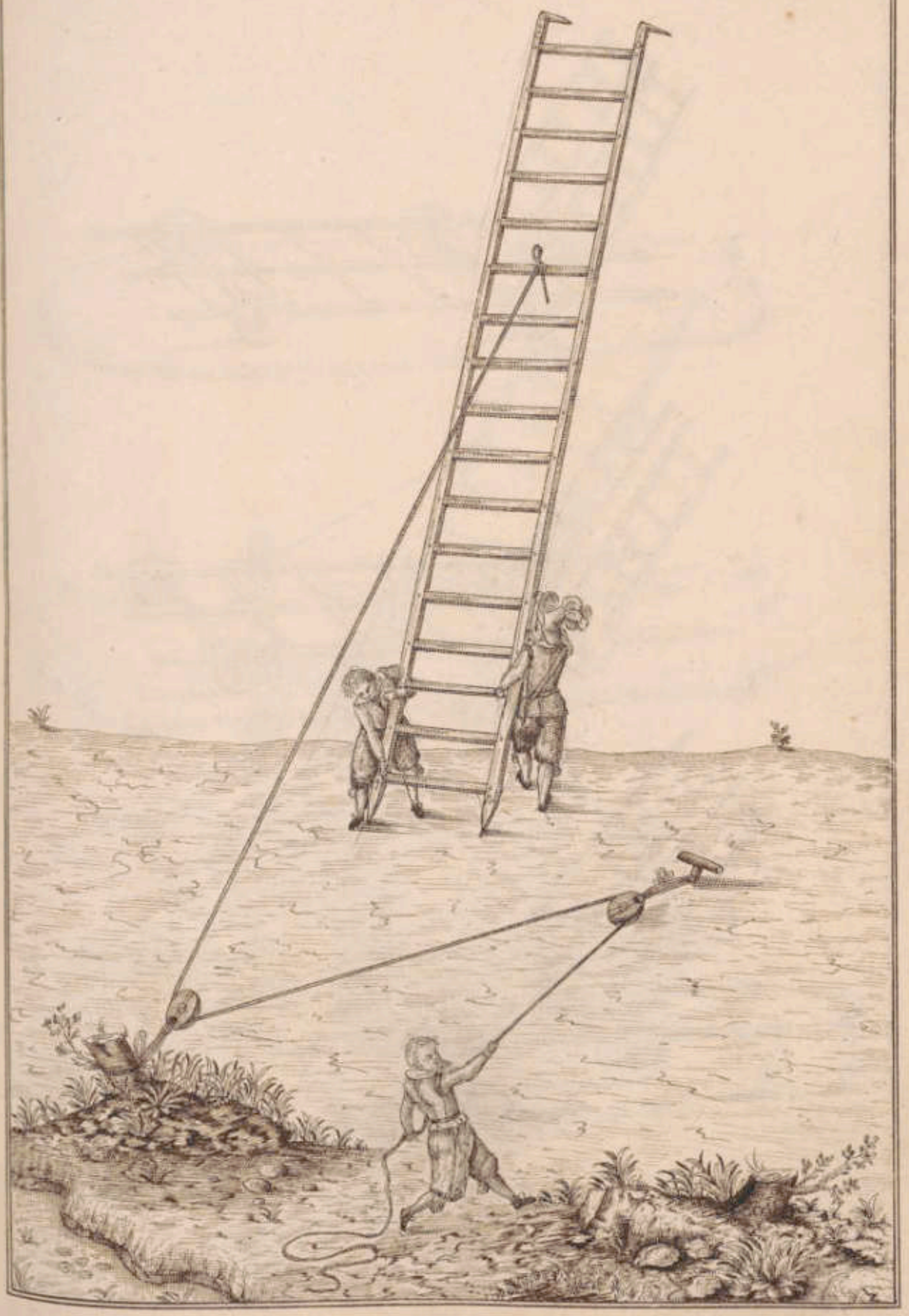
Echelle en Arcq

Echelle double



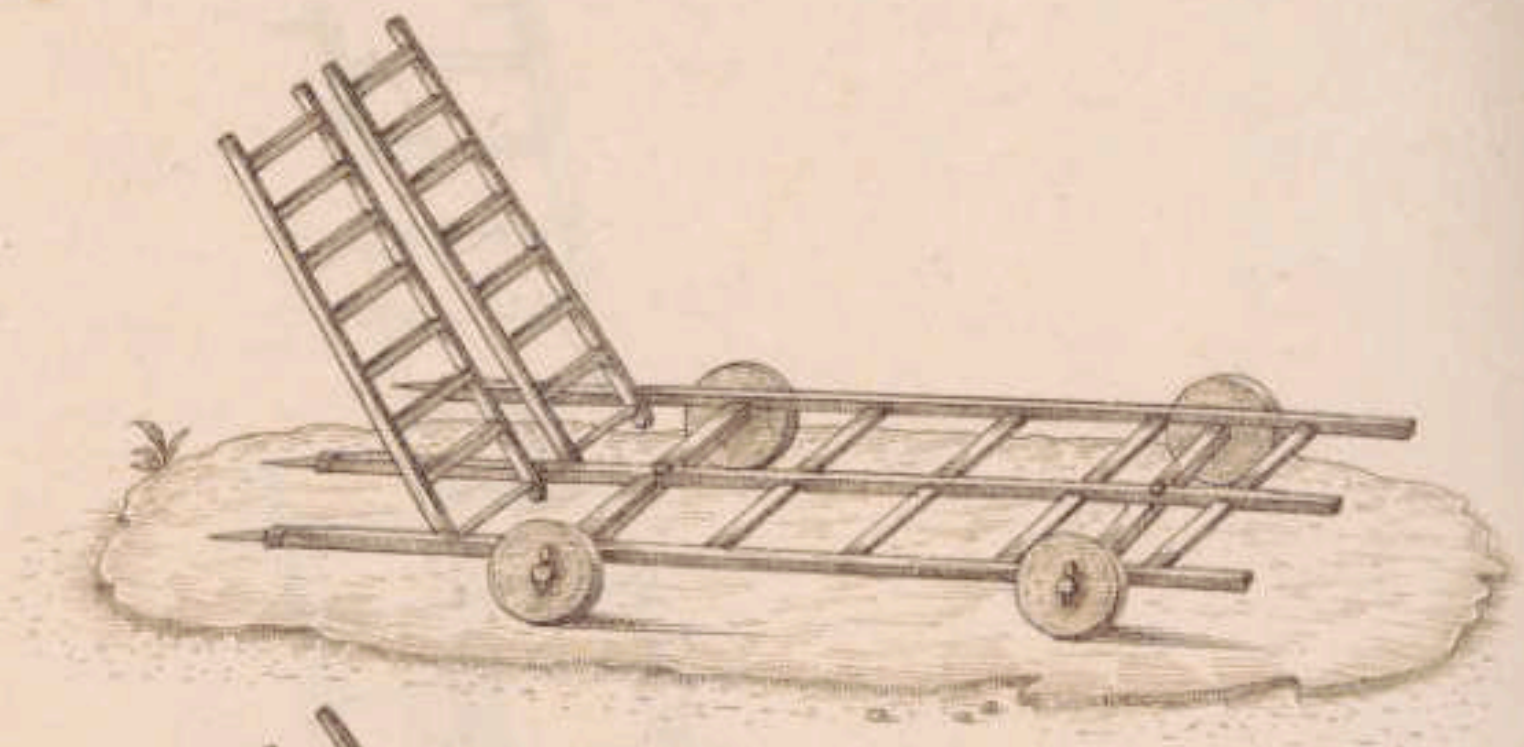
La manière pour dresser une echelle grande

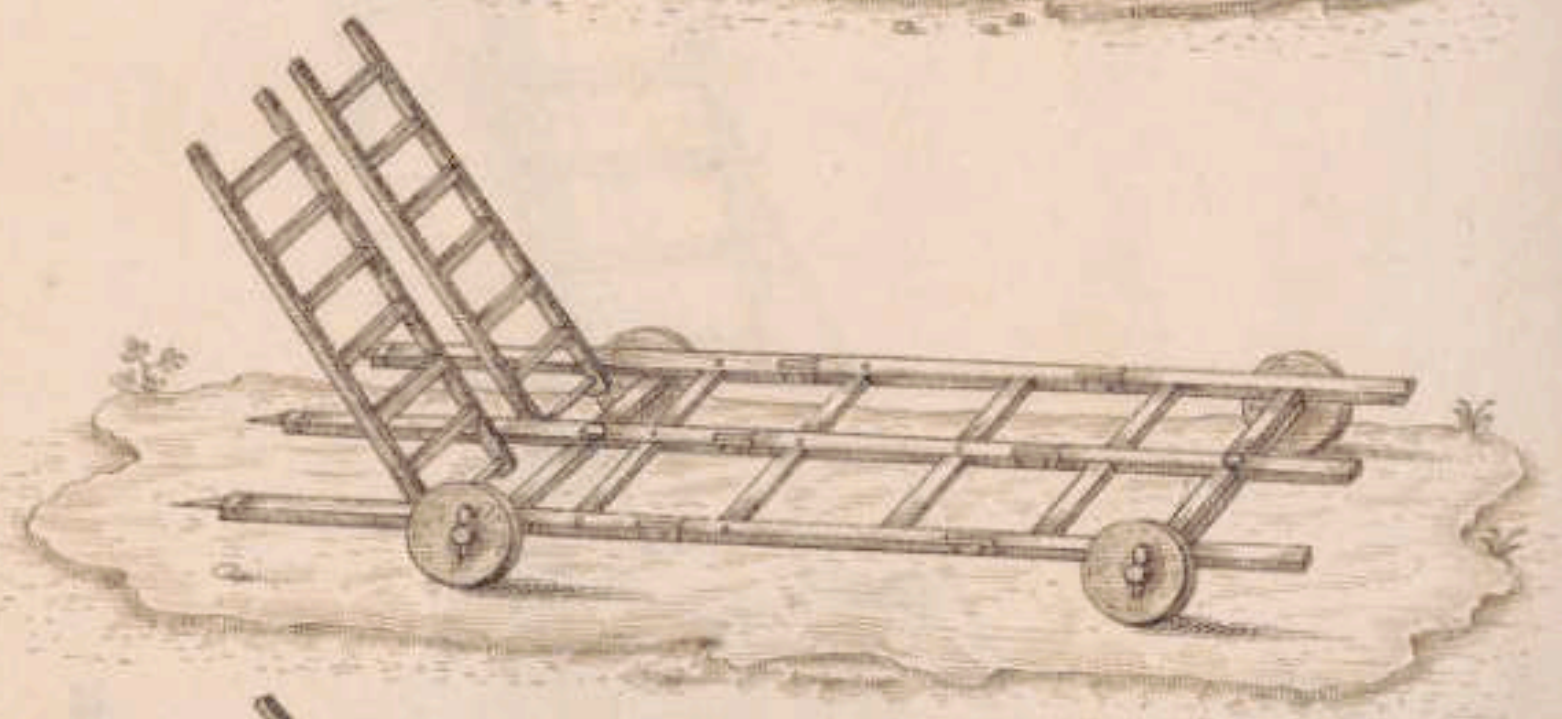
Autre manière de dresser une grande échelle.

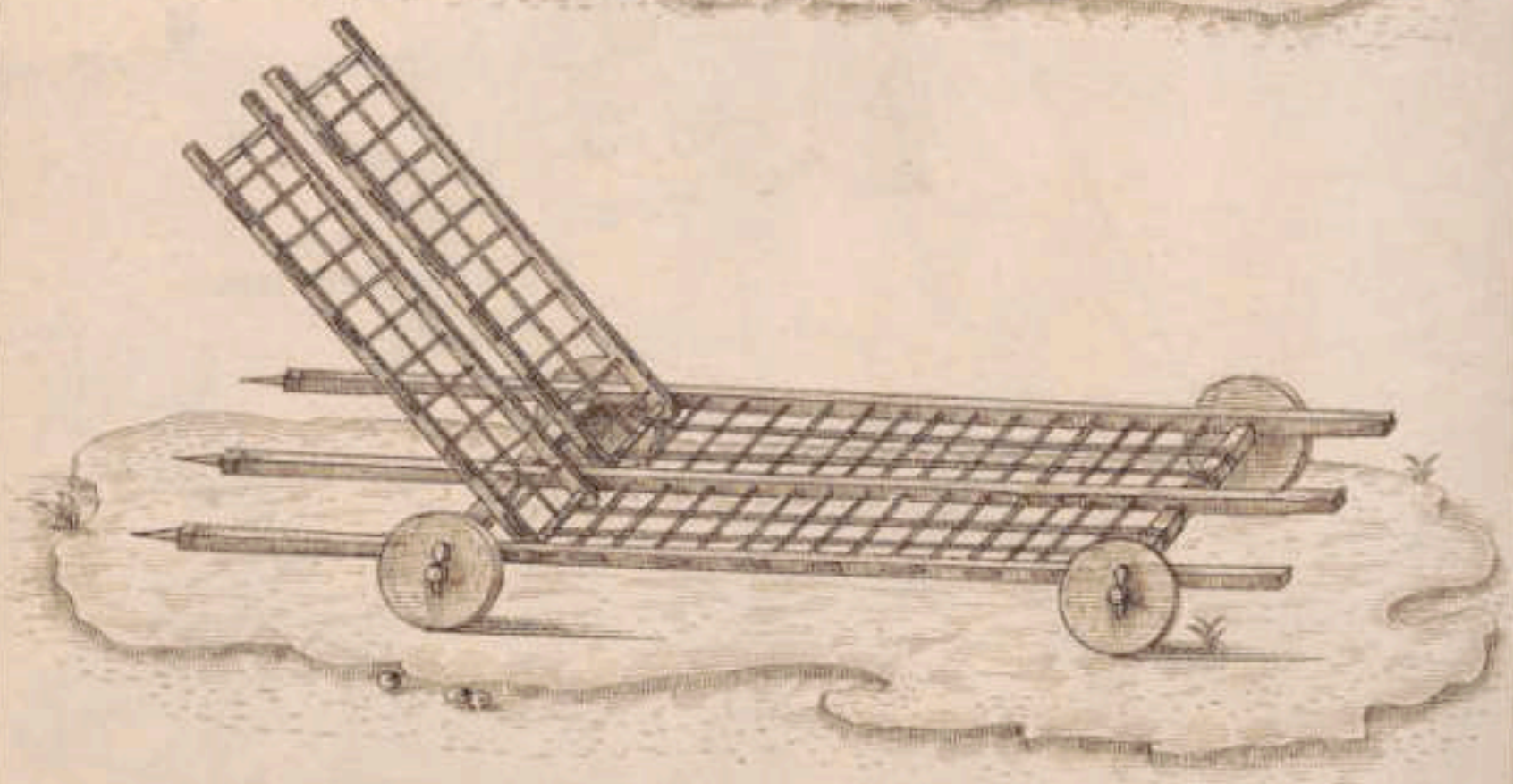


Echelles pour amasser les gerbes

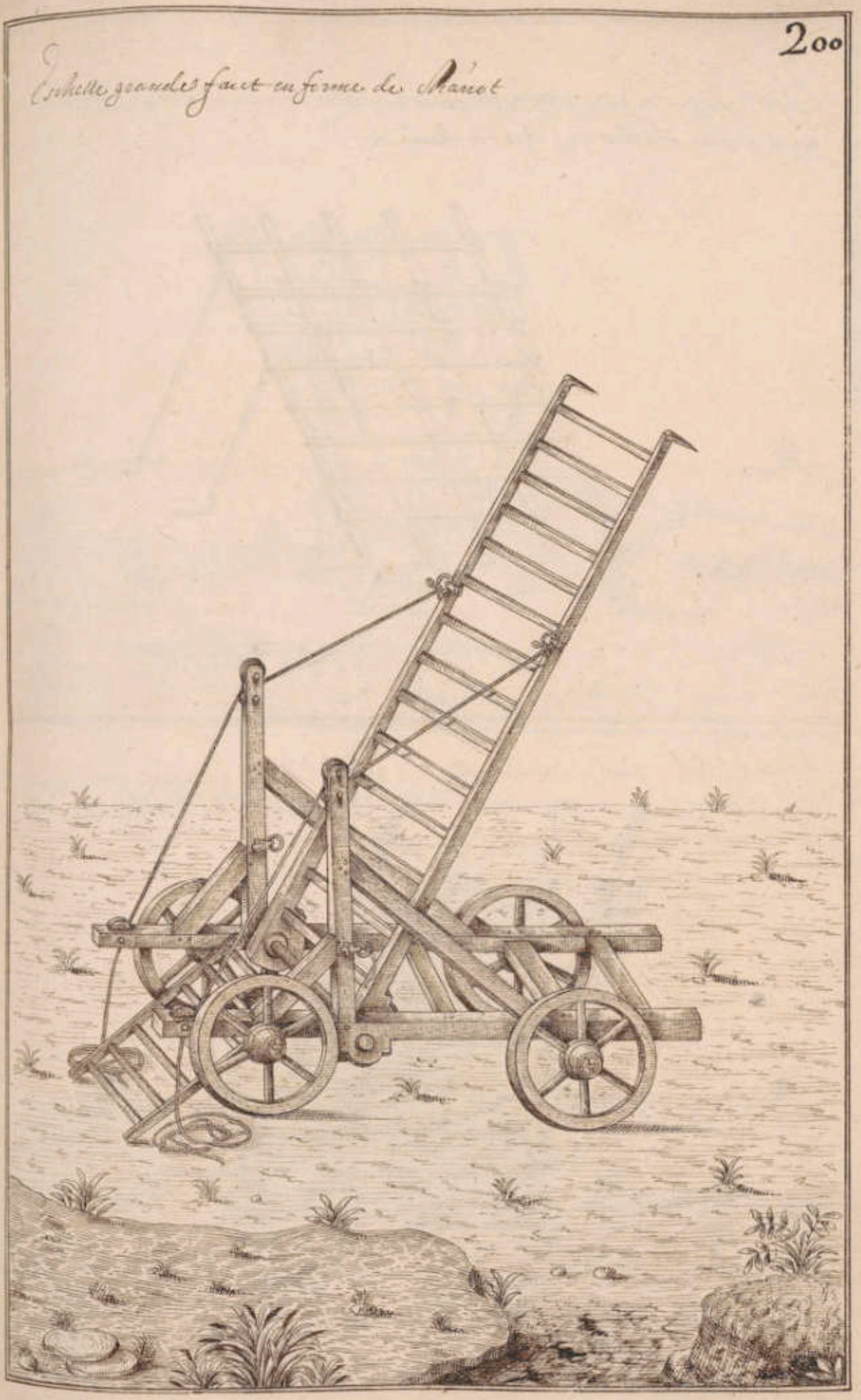
1

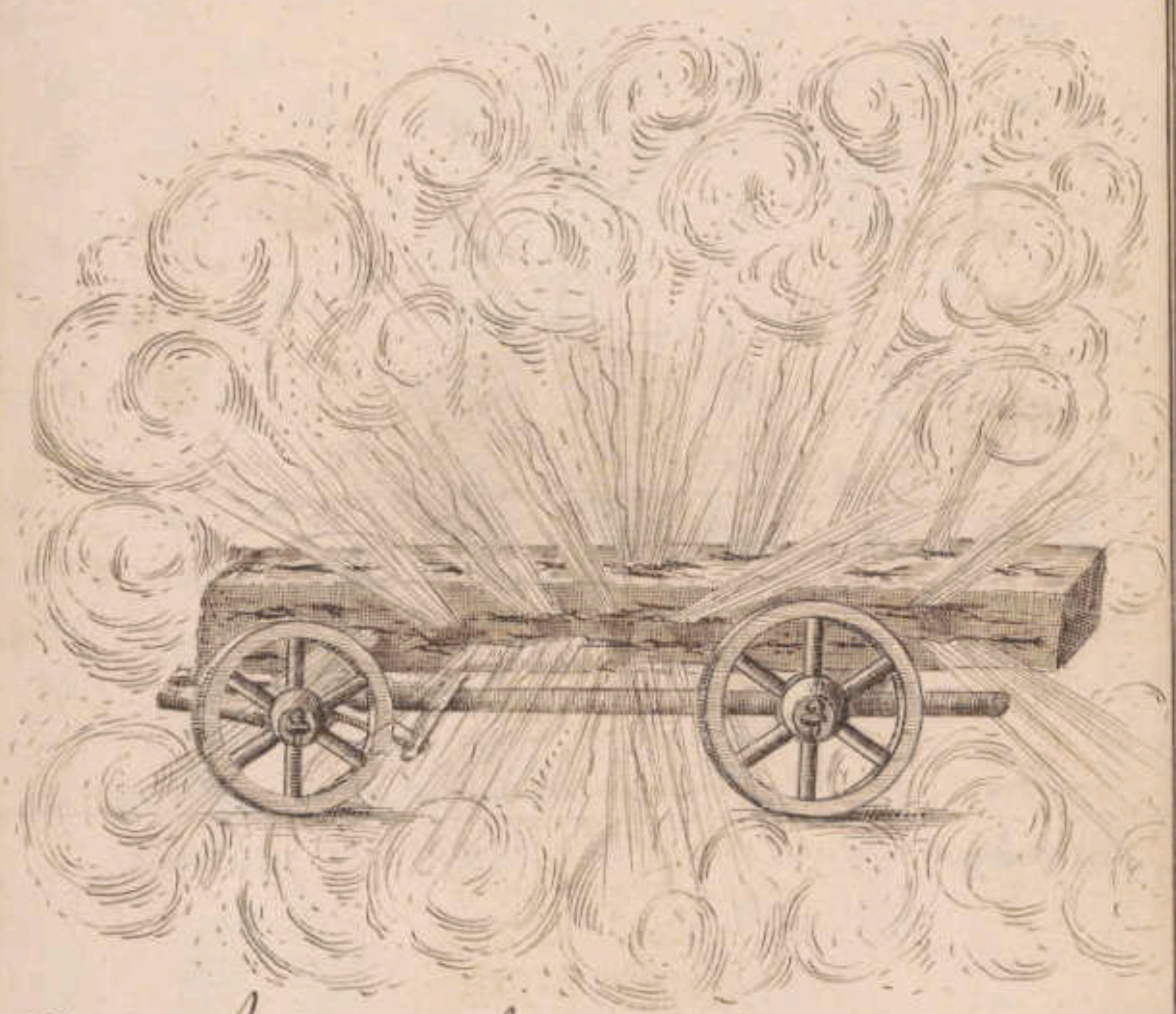




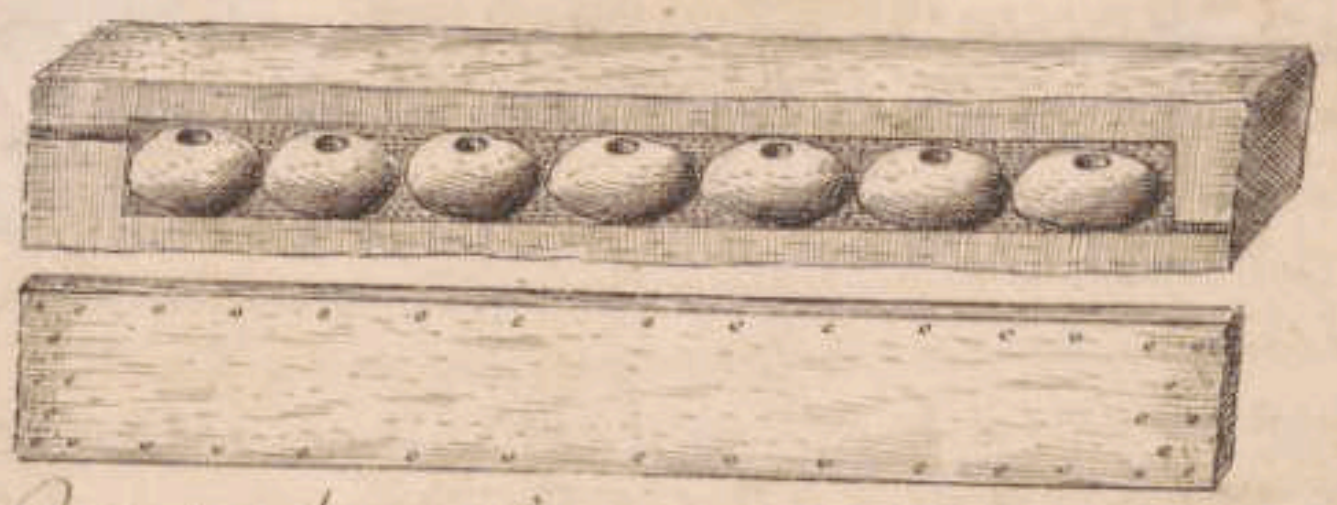


Echelle grande faite en forme de Manot



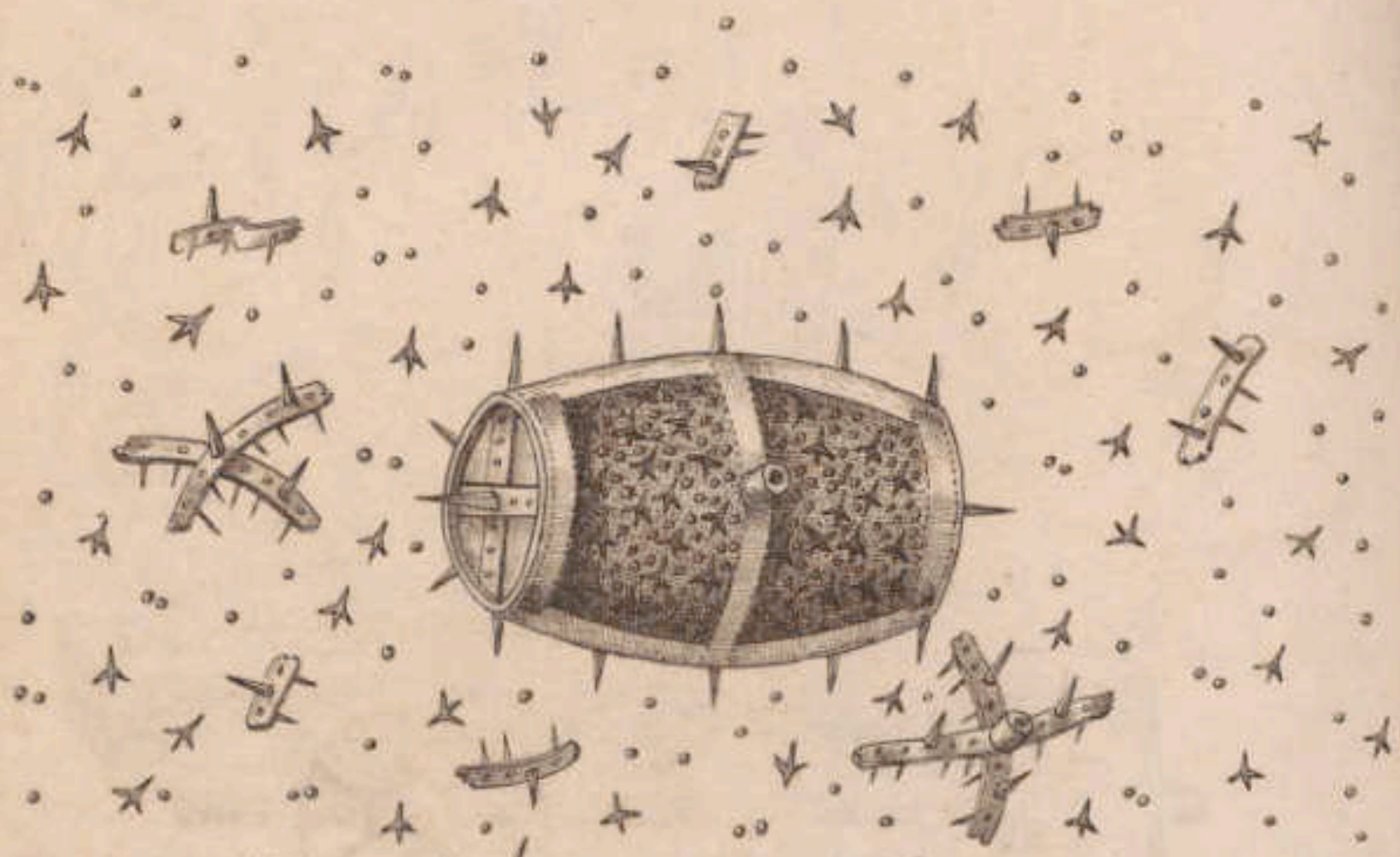


Sommier charge sur un chariot lequel est plein de poudre et bombes et grenades



Interieur du sommier.

Tonneau d'assault

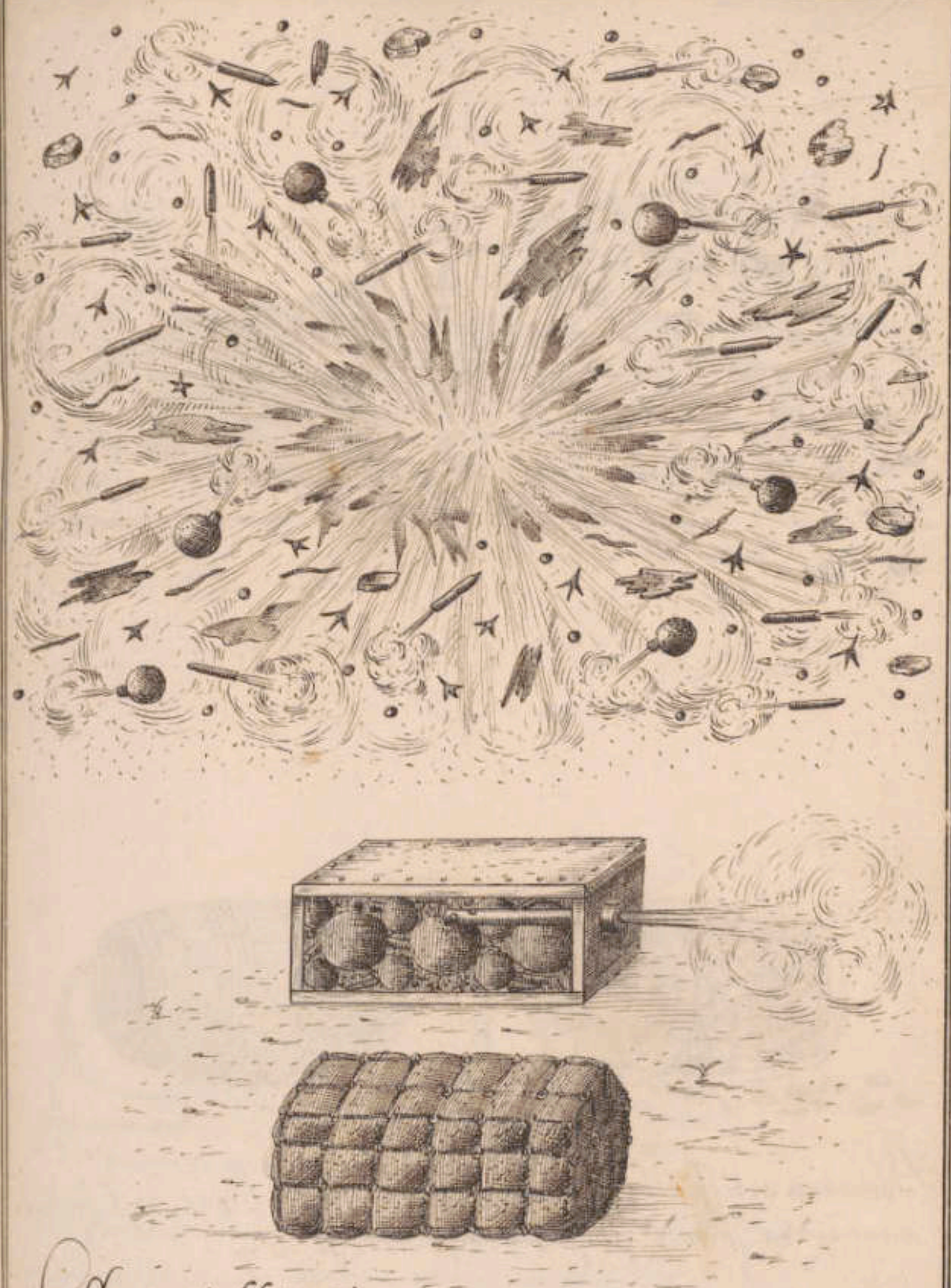


monstre l'effect du Tonneau lequel sert principallement de Jetter d'une maniere dedans Chaloupes, et gallaires.

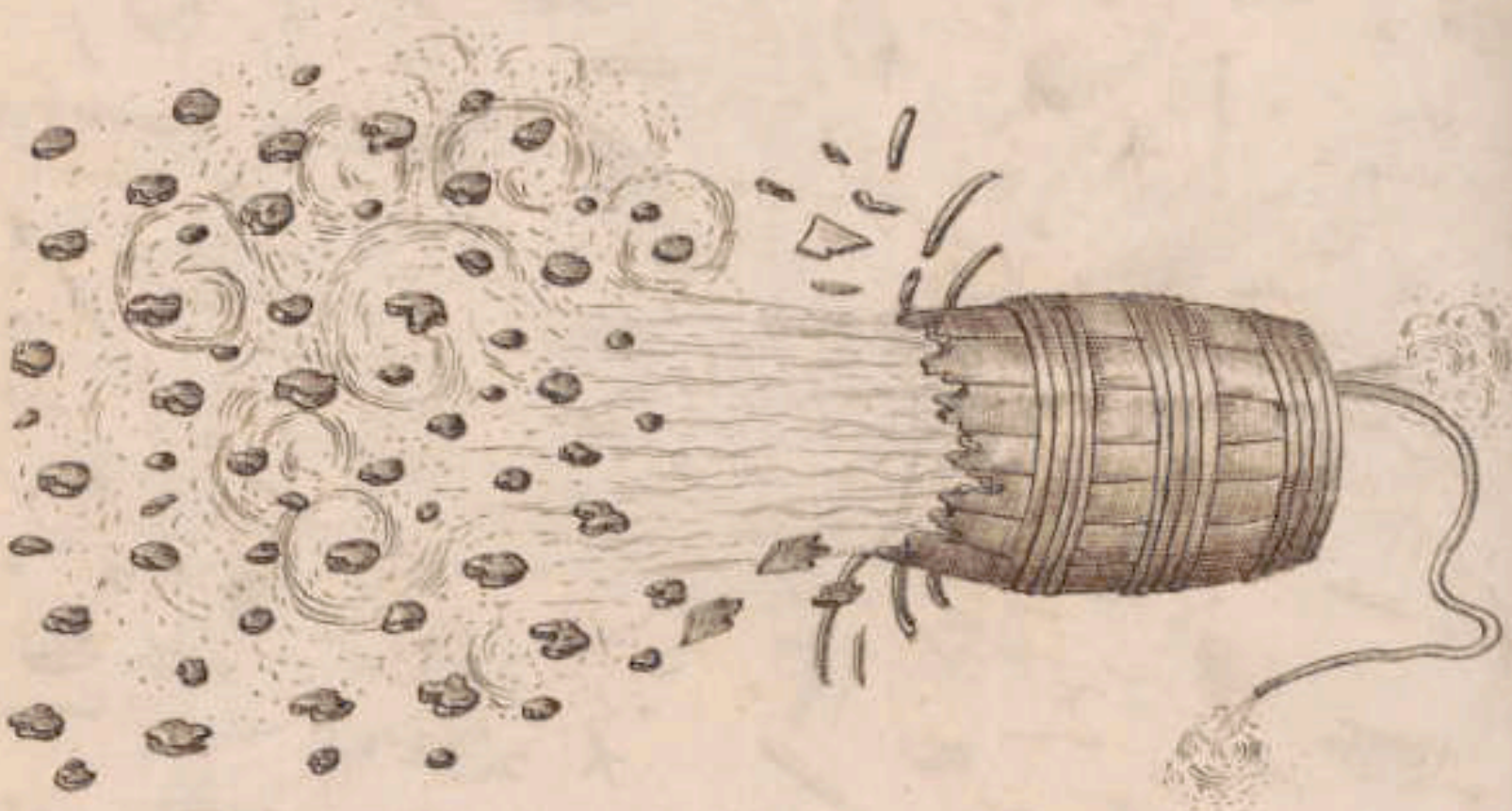
Tonneau ou Barrilz de Presde chargez de poudre Balles de musquette et attrapes et pois de deux pouces, long de deux pieds se lesse ouvert d'un coustre pour le charger de morceaux de fer et chaussses trappes avecq poudre fine. d'avantaige se faict un tron au milieu ainsy qu'il appert par la buse, et le tron faict avecq un fer rouge, en apres clouer le Tonnet bien justement avecq bandes de fer et encores mettre Cercles de fer au tour dudict tonneau, et au droit du tron dont est faict mentition mettre deux cercles en Croix ou est attache une buse aussy de fer, et chargee comme dessus, laquelle doict justement Respondre sur le tron dudict tonneau, lequel sera remply de poudre fine mesques sur la pastee ou a deprendre le feu.

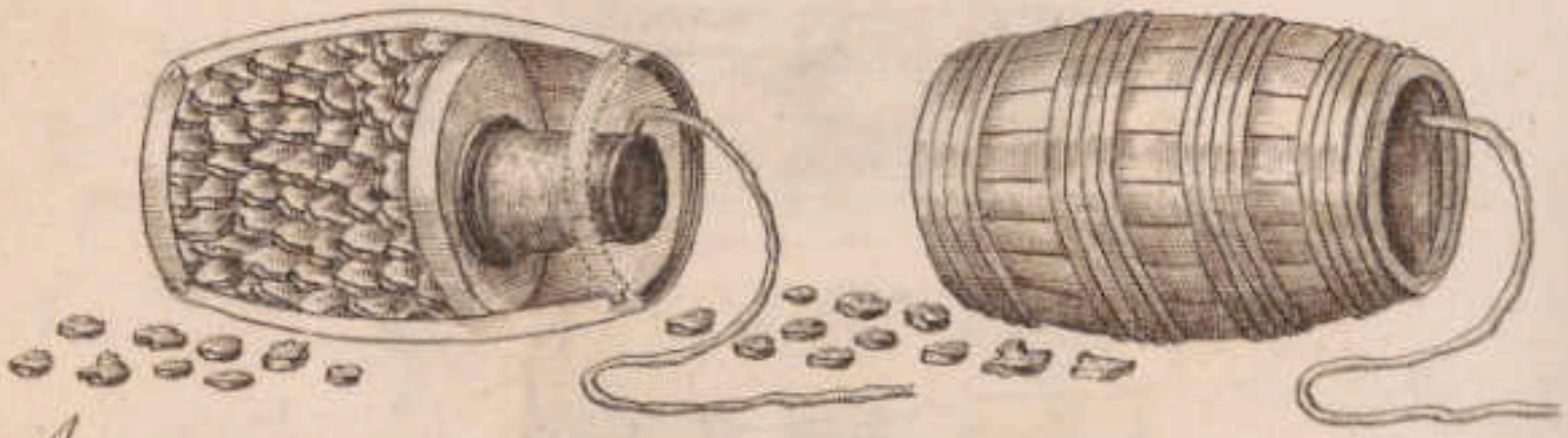
Barrils de Bresches chargés de cailloux avec un petit tonneau au millieu pleine de poudre fine.

Autre Barrilz de Bresche chargez de Carriaux de fer et balles de mousquet

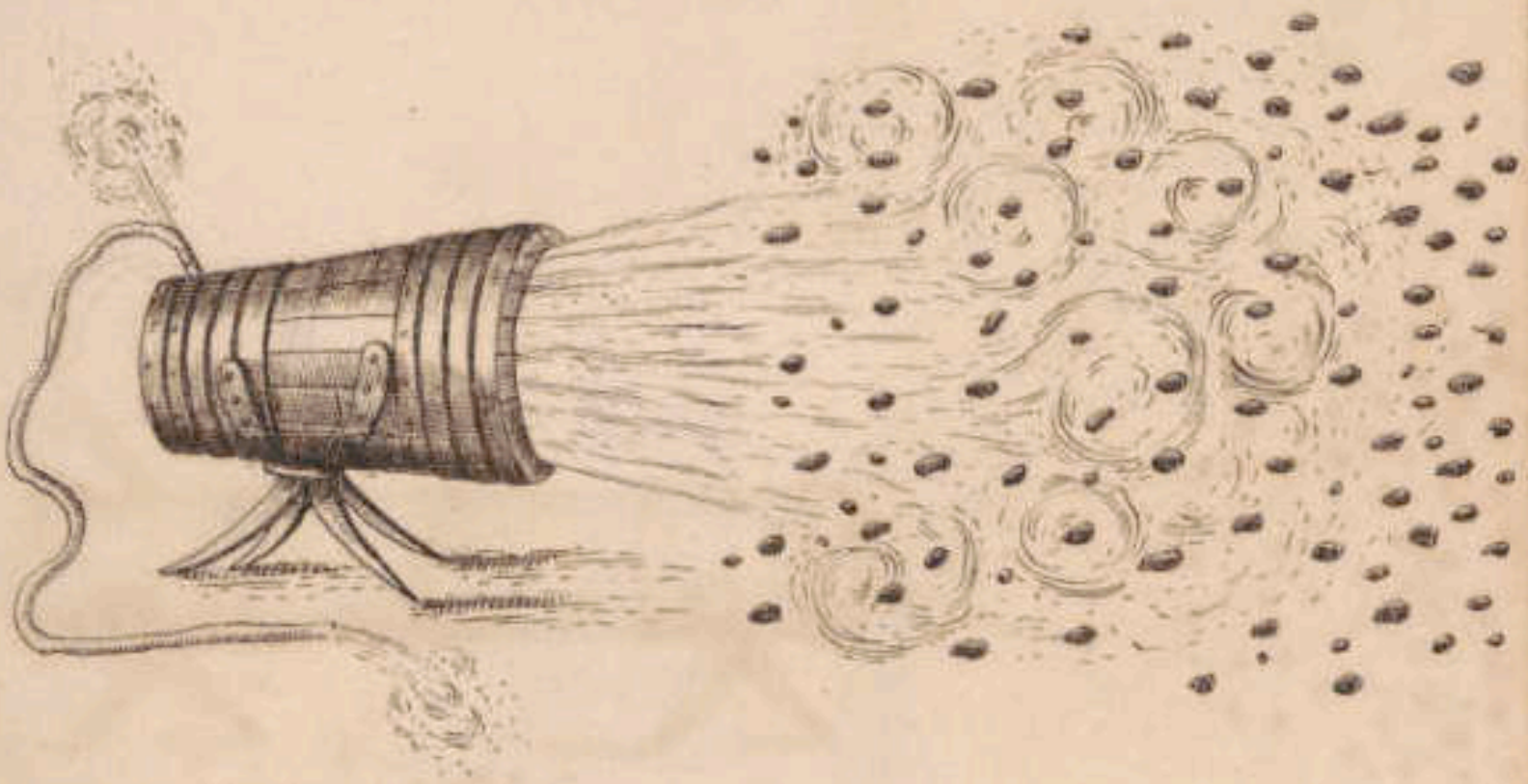


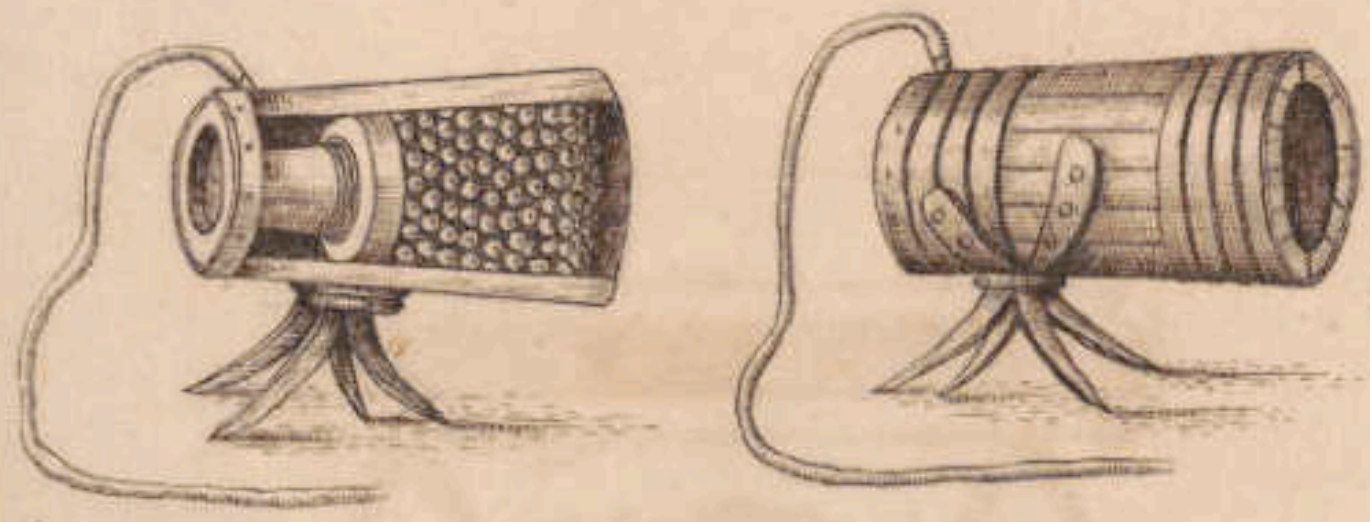
Coffre emballé pleine de Bombes grenades et aultres artifices propres à surprises de places.



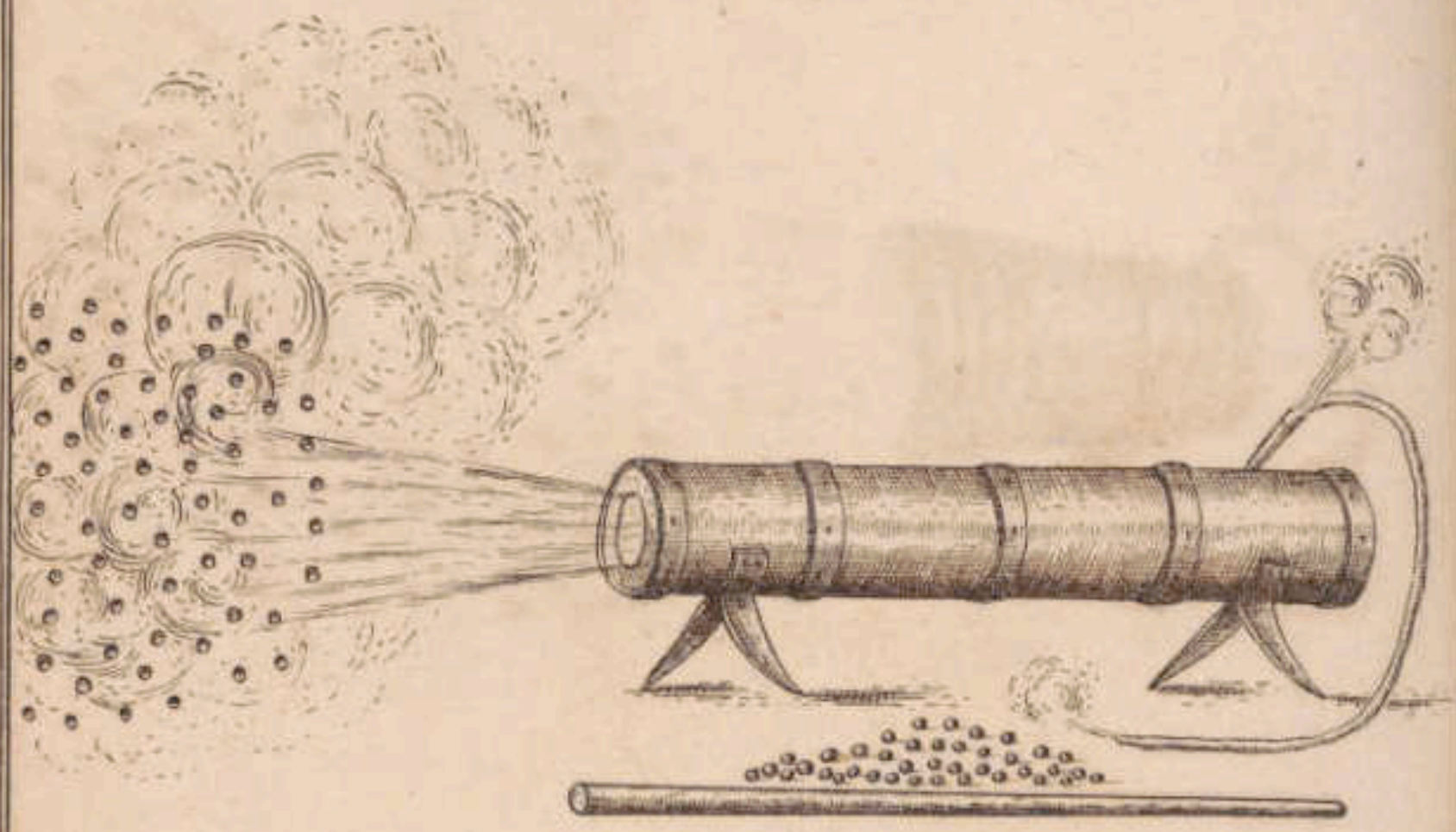


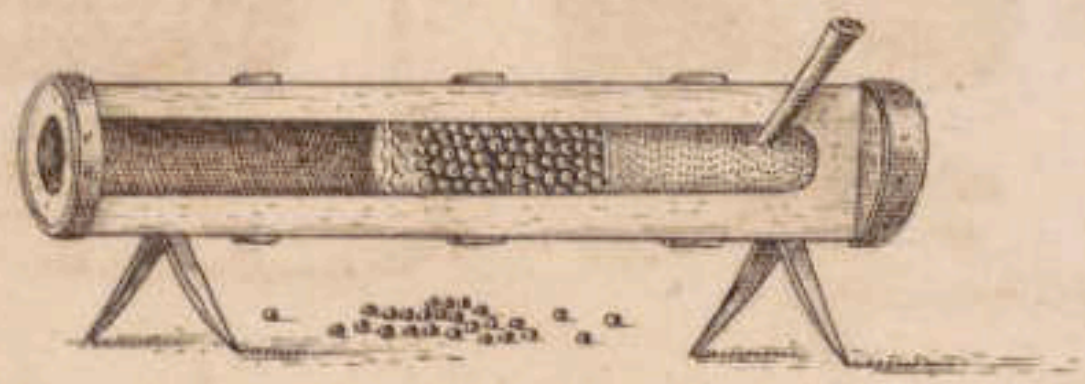
Tonneaux artificiels la moietie plens de Cailloux et l'Autre moietie d'un petard, propres a surprises de places.



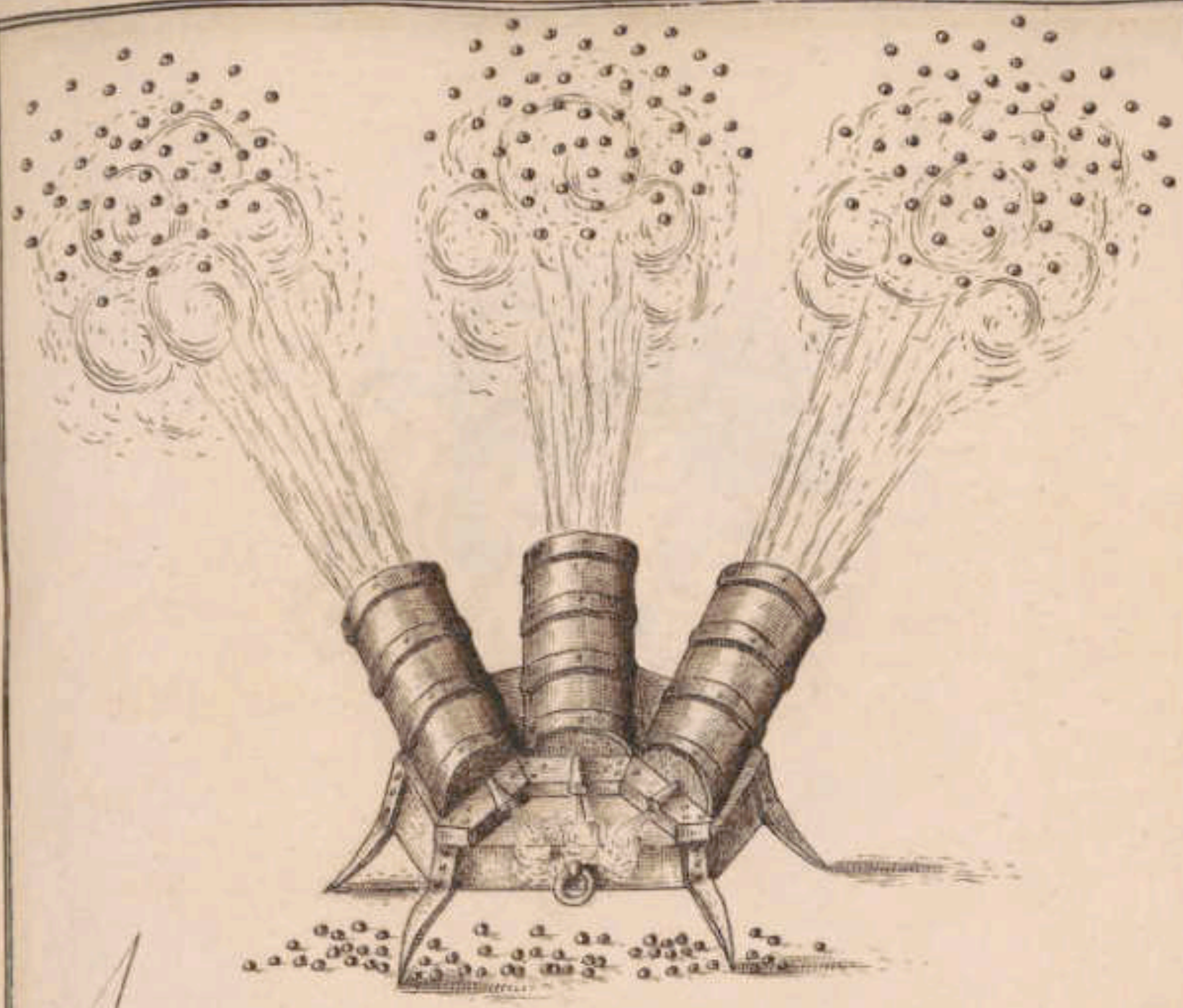


Artiffices En forme de seau et chargez de des et balles de mosquettes propres à enterrer sur ennemis aux occasions de sorties

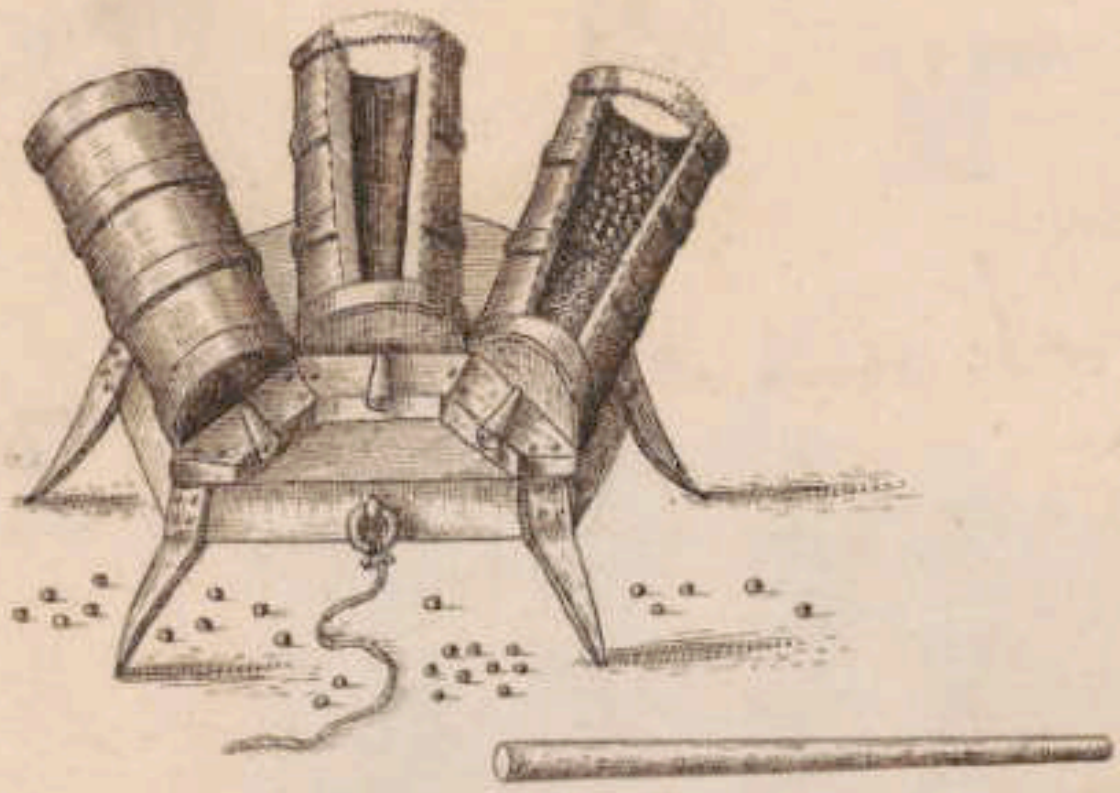




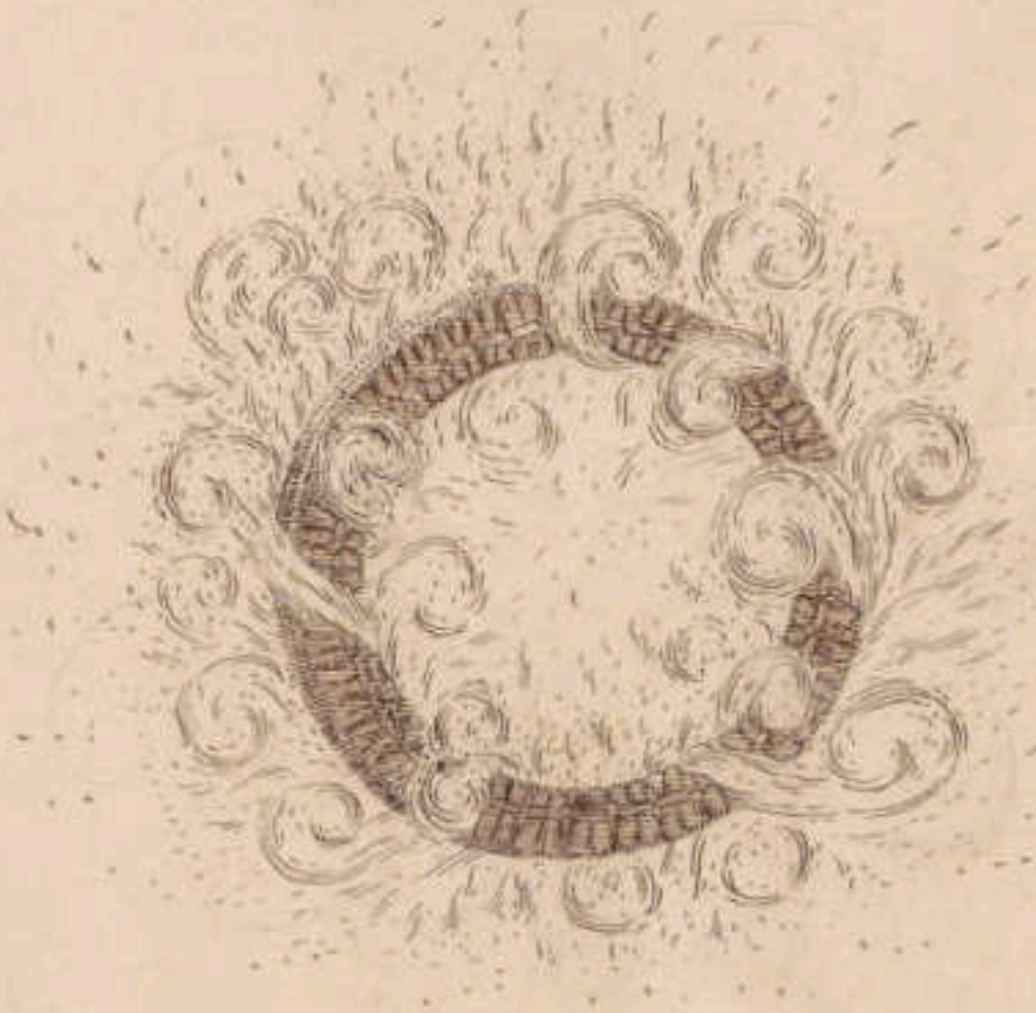
Canons de Bois bandez de fer chargez de Balles de mosquetz a
mesme effect ;

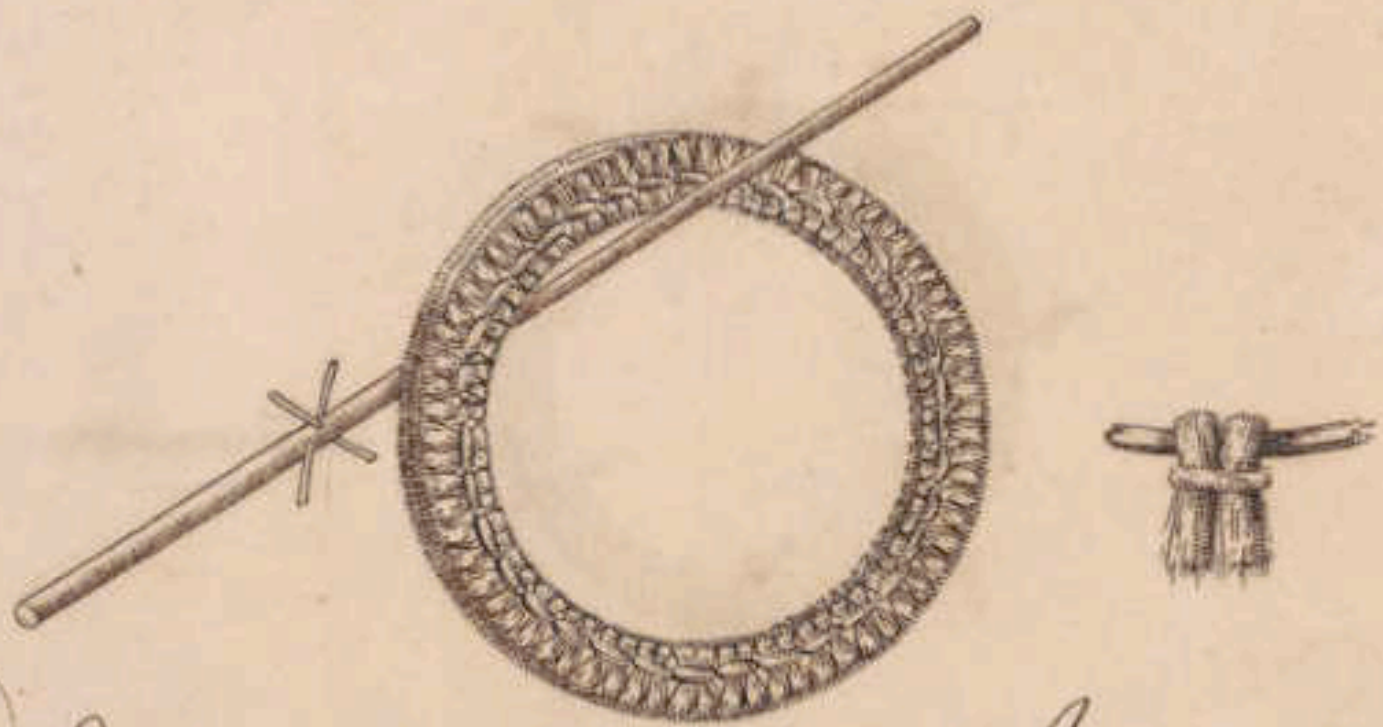


Trois mortiers de Bois sur vn seul affuste seruant à mesme Effect 2.

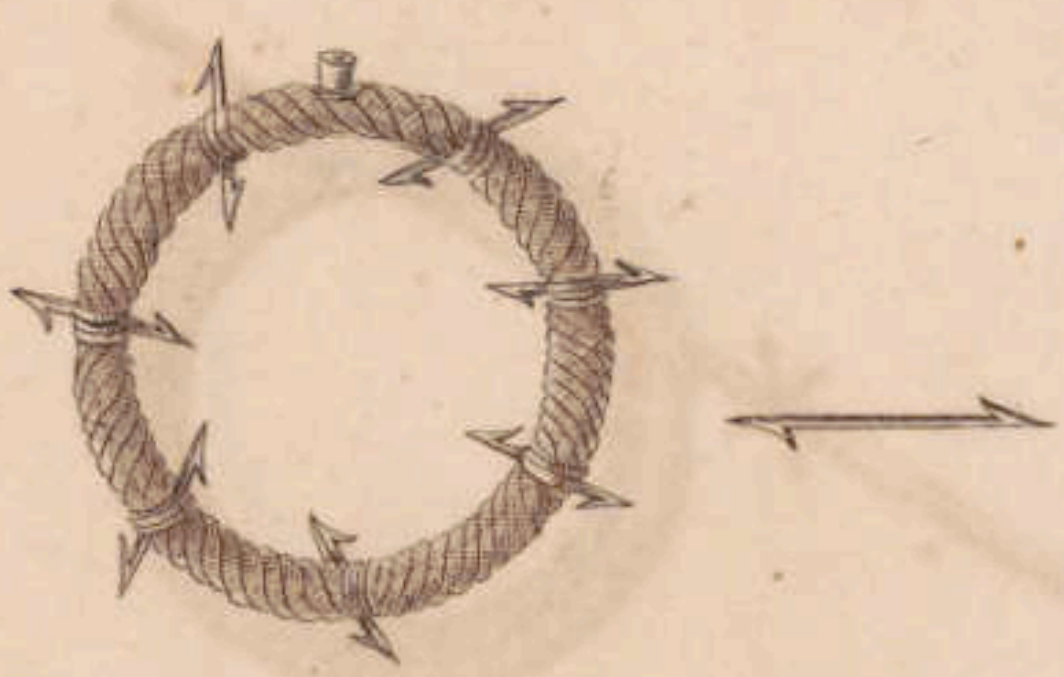


Cercle de bieulx cordages de batteaulx enuelopez de toupes poisees

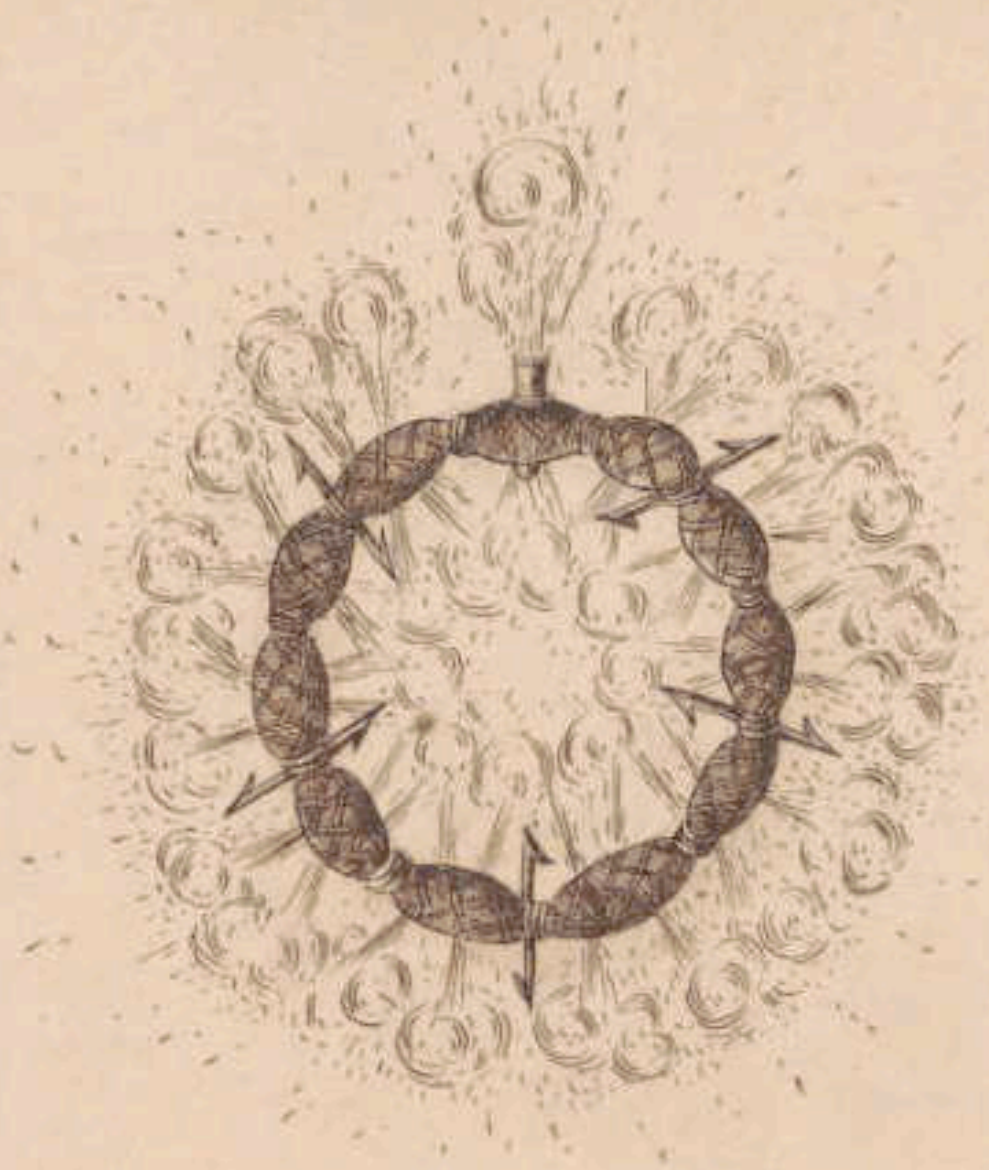


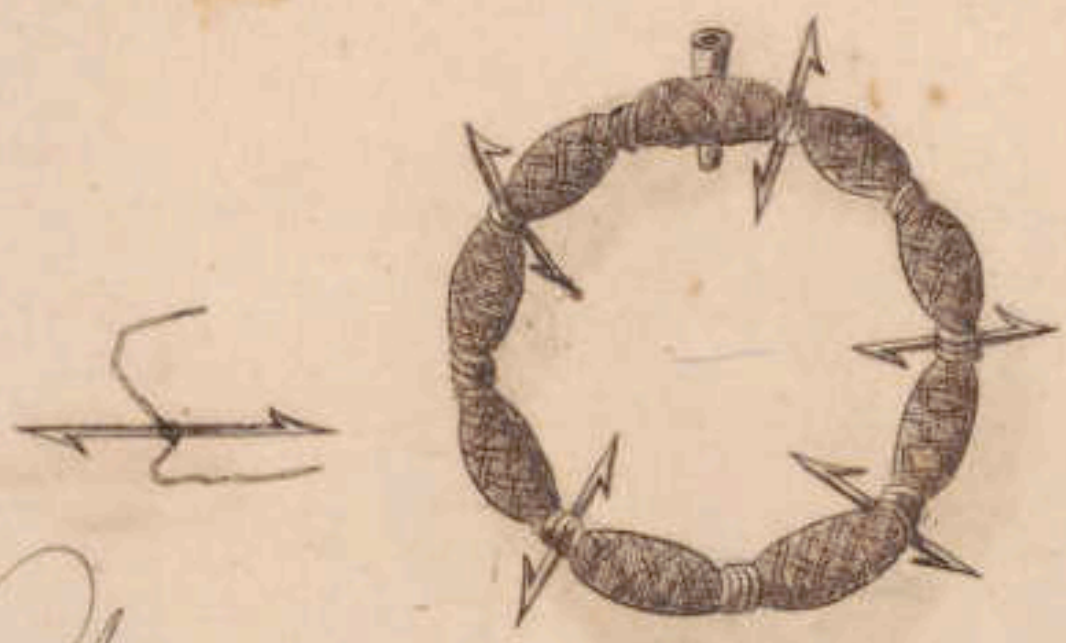


Cercle entrelassees de Paille, propre a Jetter auecq vn Baston desguelles se seruent ordinairement les Hollandois.

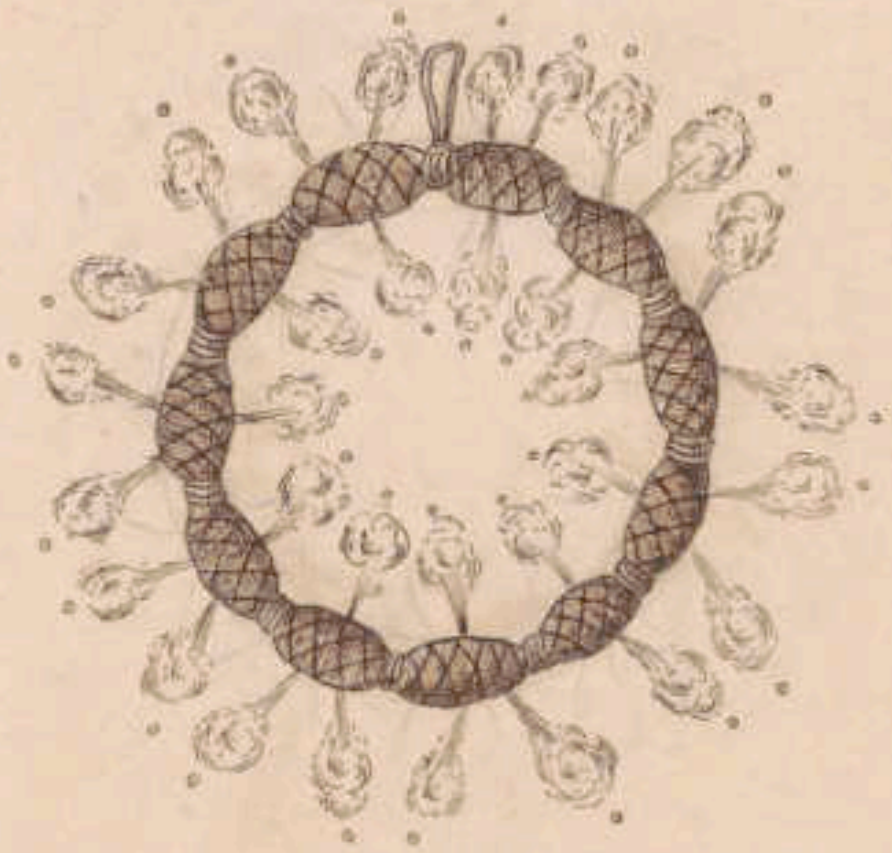


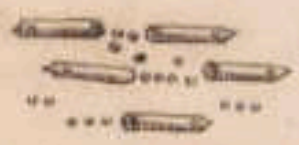
Cercle de Cordaige entretissu auecq Angles de fer propre pour Jetter contre nembre de Gens ou sur mer en Batteaulx et contre Voiles.



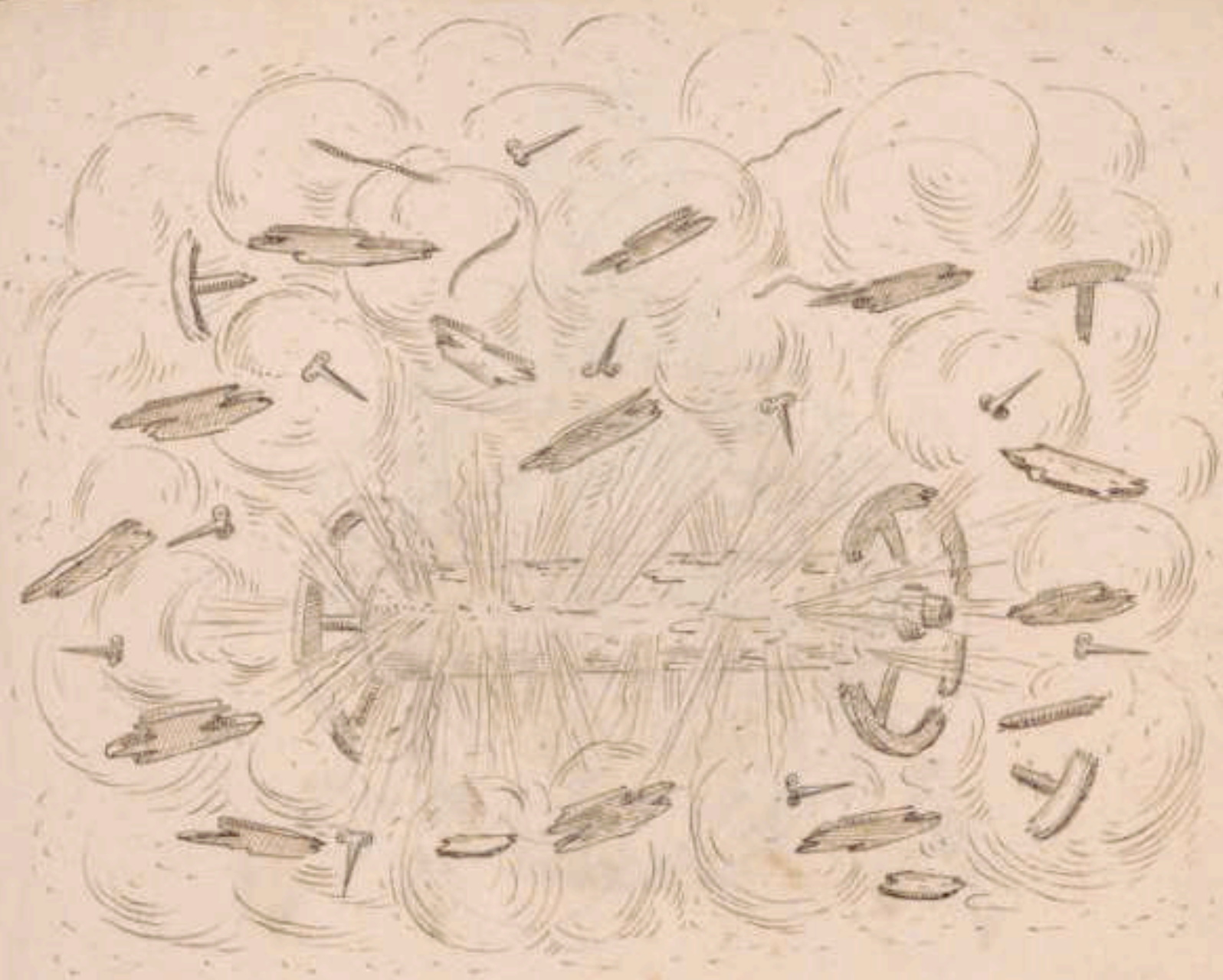


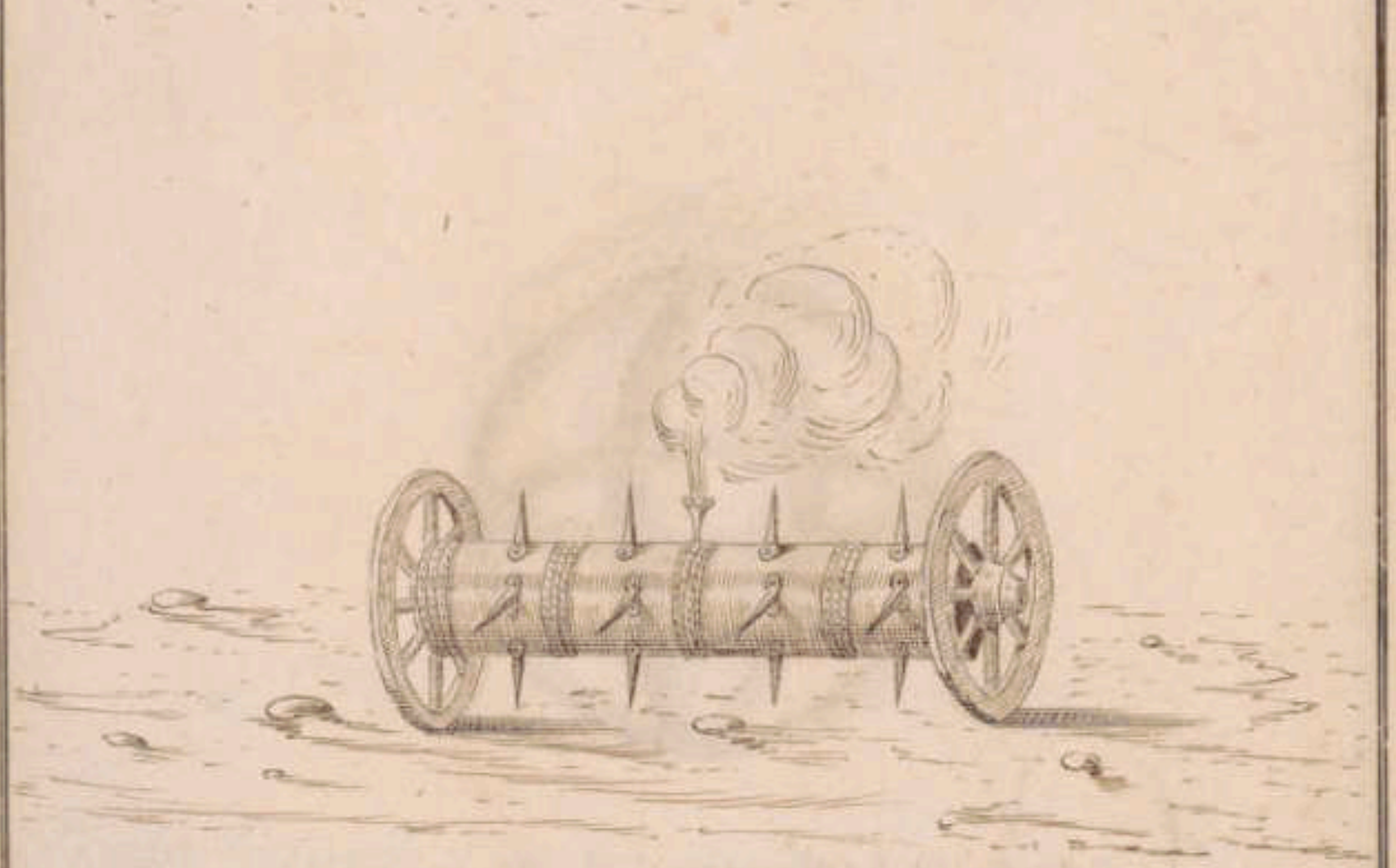
Cercle de fauchas chargez de la mixtion des Balles a feu enveloppez de troupes bien Cordee et poisee.



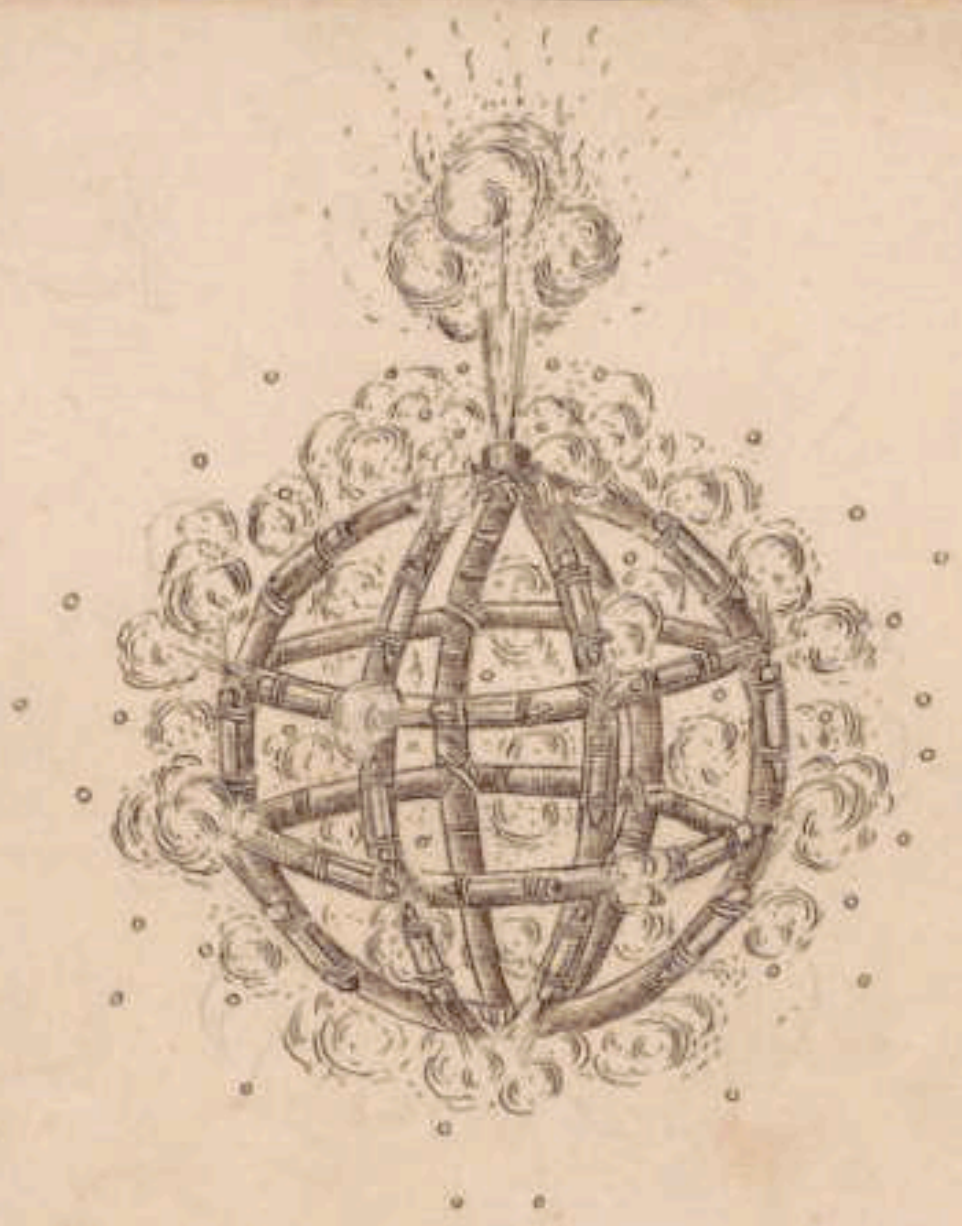


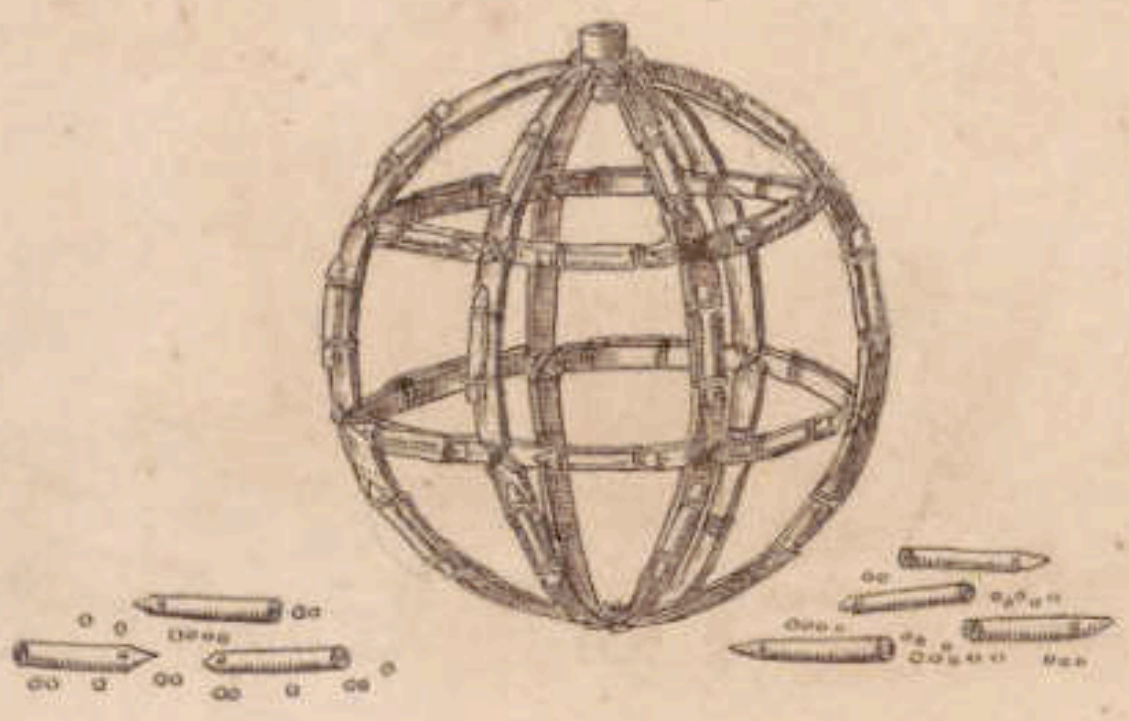
Cercle de la mesme mixtion pleins de charges de pistolles





Cercle spherigues accommode de toupes et cordage poysees





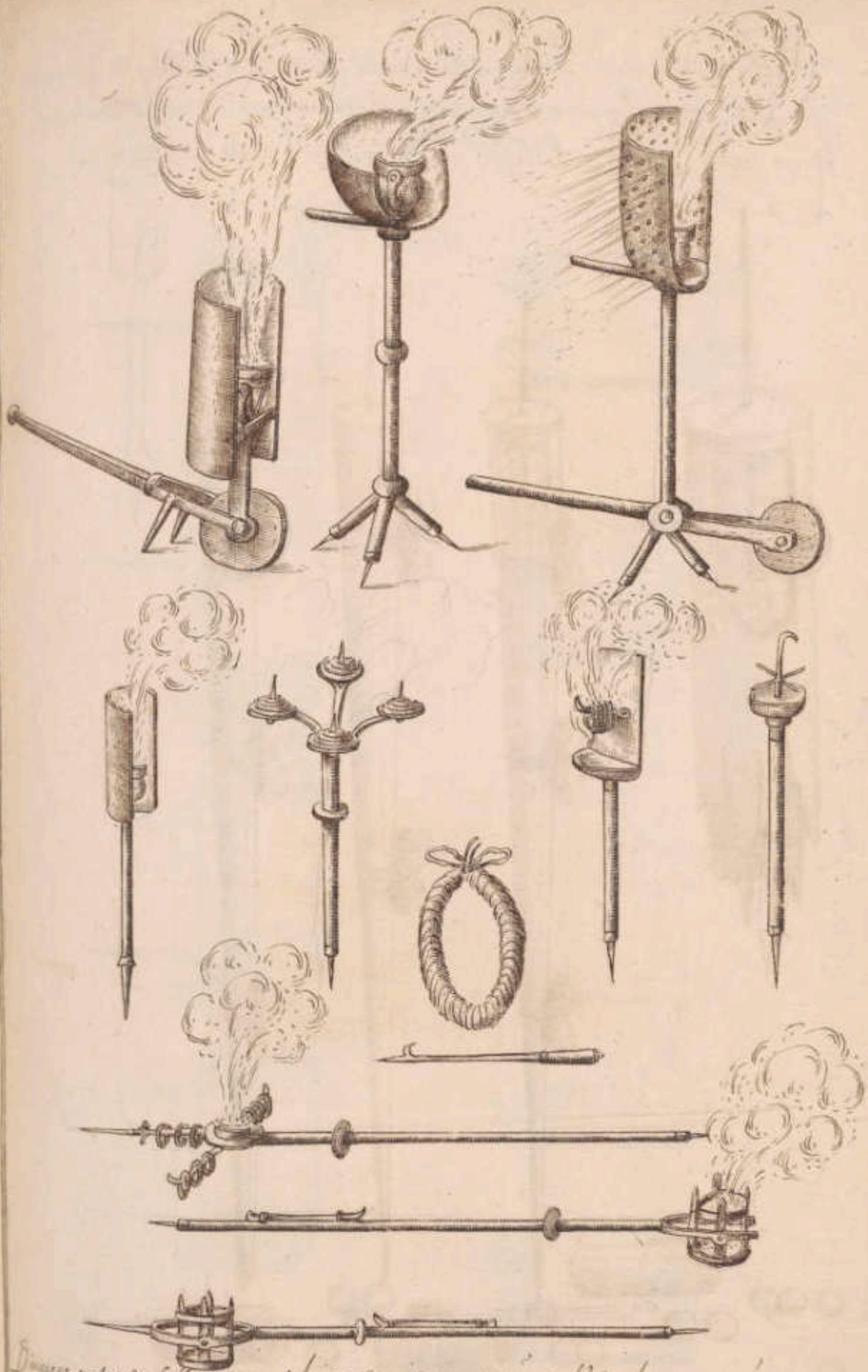
Autre desparreille composition plein des charges de pistollets

Laisème de Coldaige propre à allumer de nuit vng fosse ou
Rampar en temps d'assautz ou de surprises

Tonneau Artificiel pour allumer de nuict.

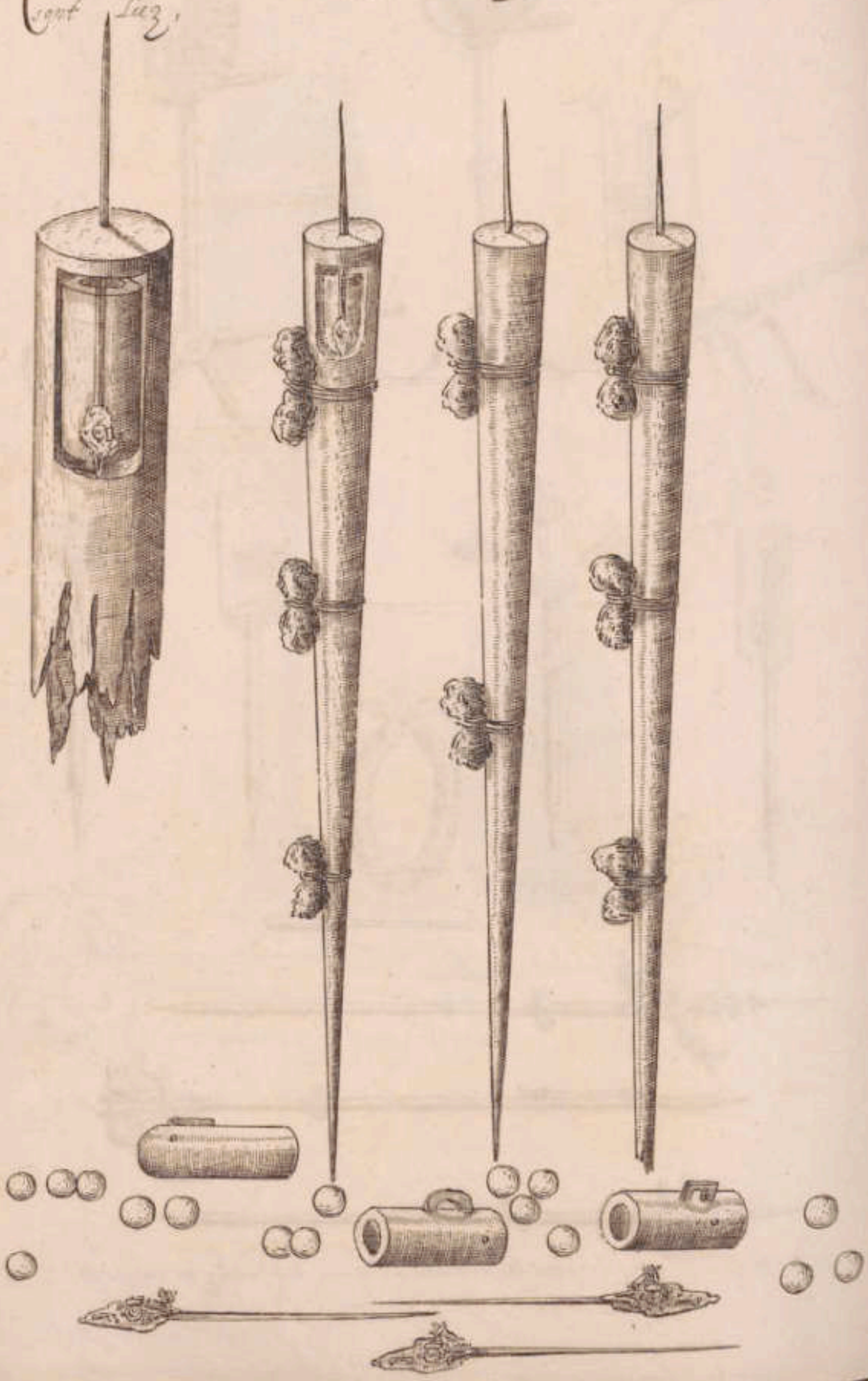
La maniere pour proposer le present tonneau, lequel doibt tenir de poisseur deux doigz de bois, Premierement Il faut prendre un fourgon, que est un baton au bout duquel ya du drap ou fourure que l'on trempera dedans du pee, et ainsy footer fort bien ledit tonneau endedans, puis prendre de la mousse seche, dont l'on accomode les Batteaulx, lequelle l'on baigne dedens le pee, et puis du asmo, mettant seulement $\frac{1}{3}$ de ladite poix le resine, et bien chaudement l'agencer contre le bas dedens ledit tonneau, puis vielles cordes de Batteau seches, trempee semblablement dedans ladite mixtion et les mettre bien chaudement dedans le tonneau et apres vielles toiles ciree encores tremper dedans ladite composition, puis apres encores mousse accomodee comme la precedente et puis apres de petites Boetes de tonneau, lequel aura trempe bonny temps oubue lesme dedens de l'huile de lain, et apres le tirant de l'huile se trempe encore dans la premiere composition.

Tonneau pour Eclairer Lentrait en temps de siege

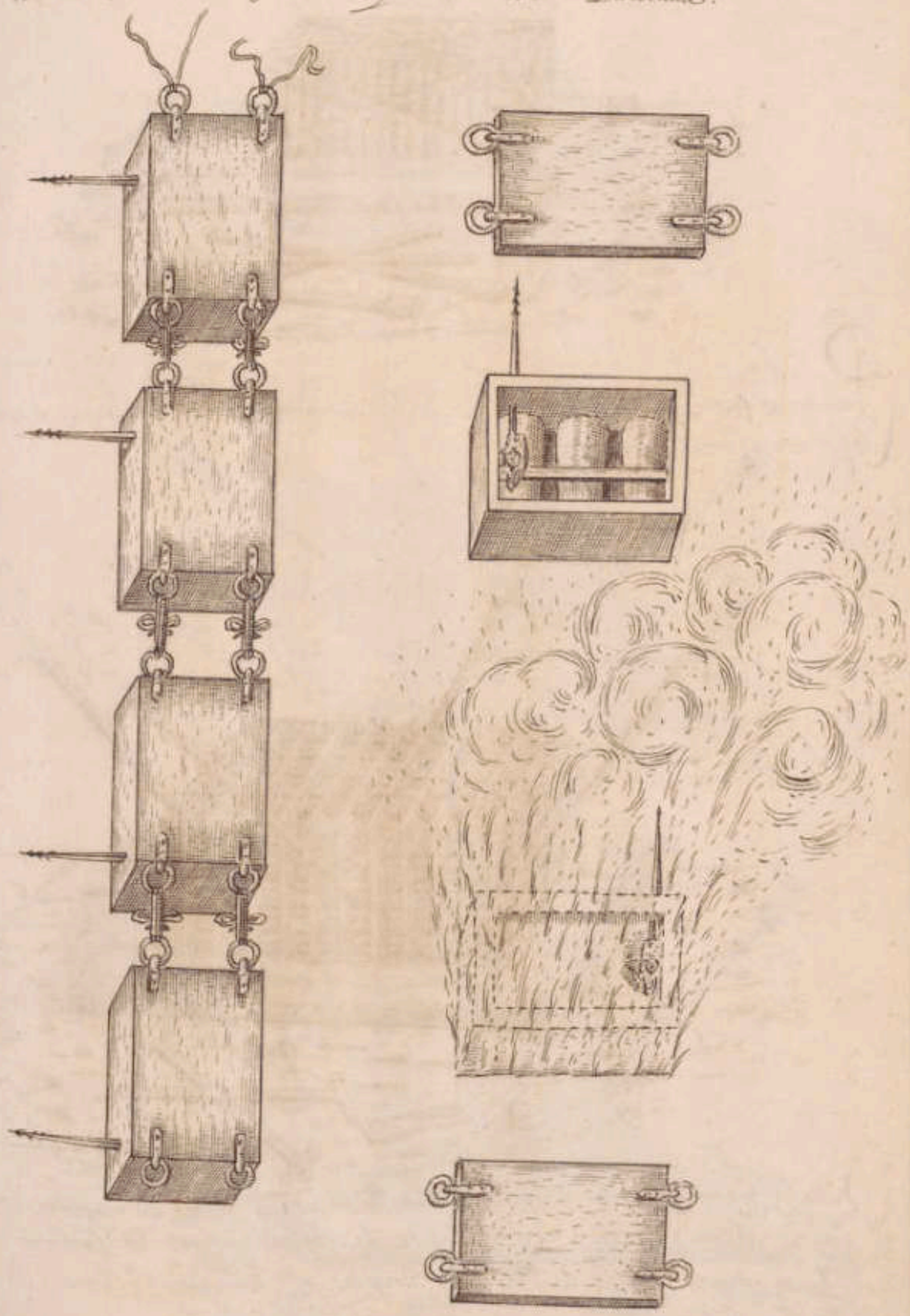


Diuerses sortes de fallotz pour éclairer de nuit aux occasions d'assaultz ou surprises

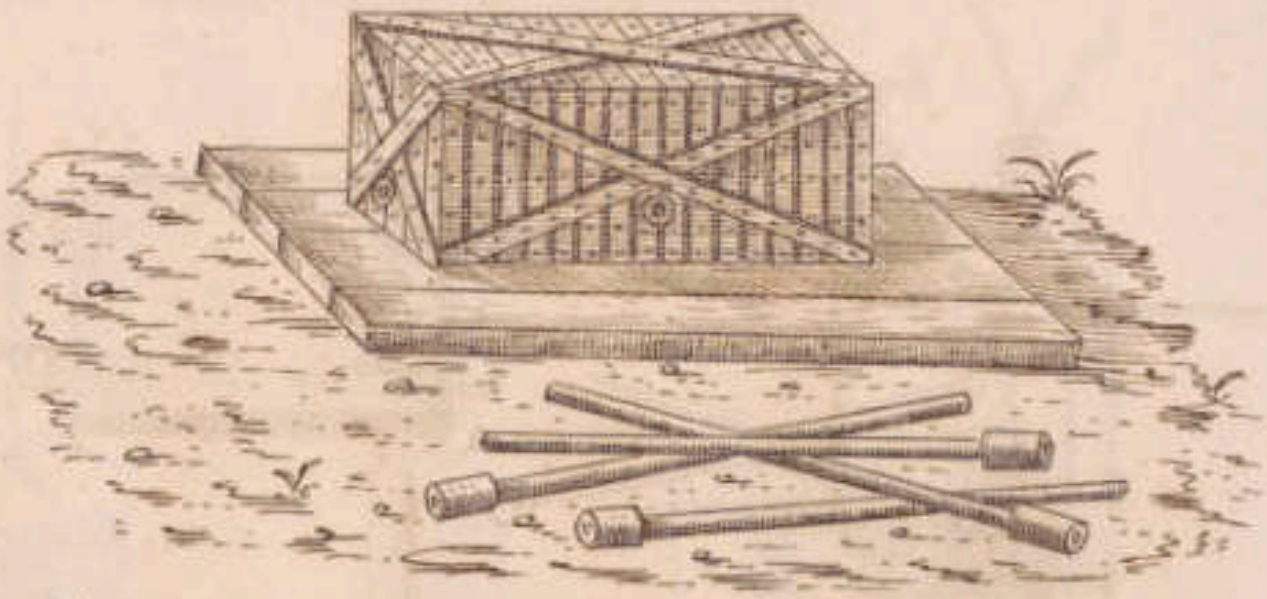
Mastiz desigm aueq chambre de fer ou metal chargés de Balles et poudre, fme pour enfonser vn pont, lesquels se gouuernent par l'Intelligence d'vn Rouet et sont conduit en Justesse par le contrepois des Cailloux qui y sont Iuez.



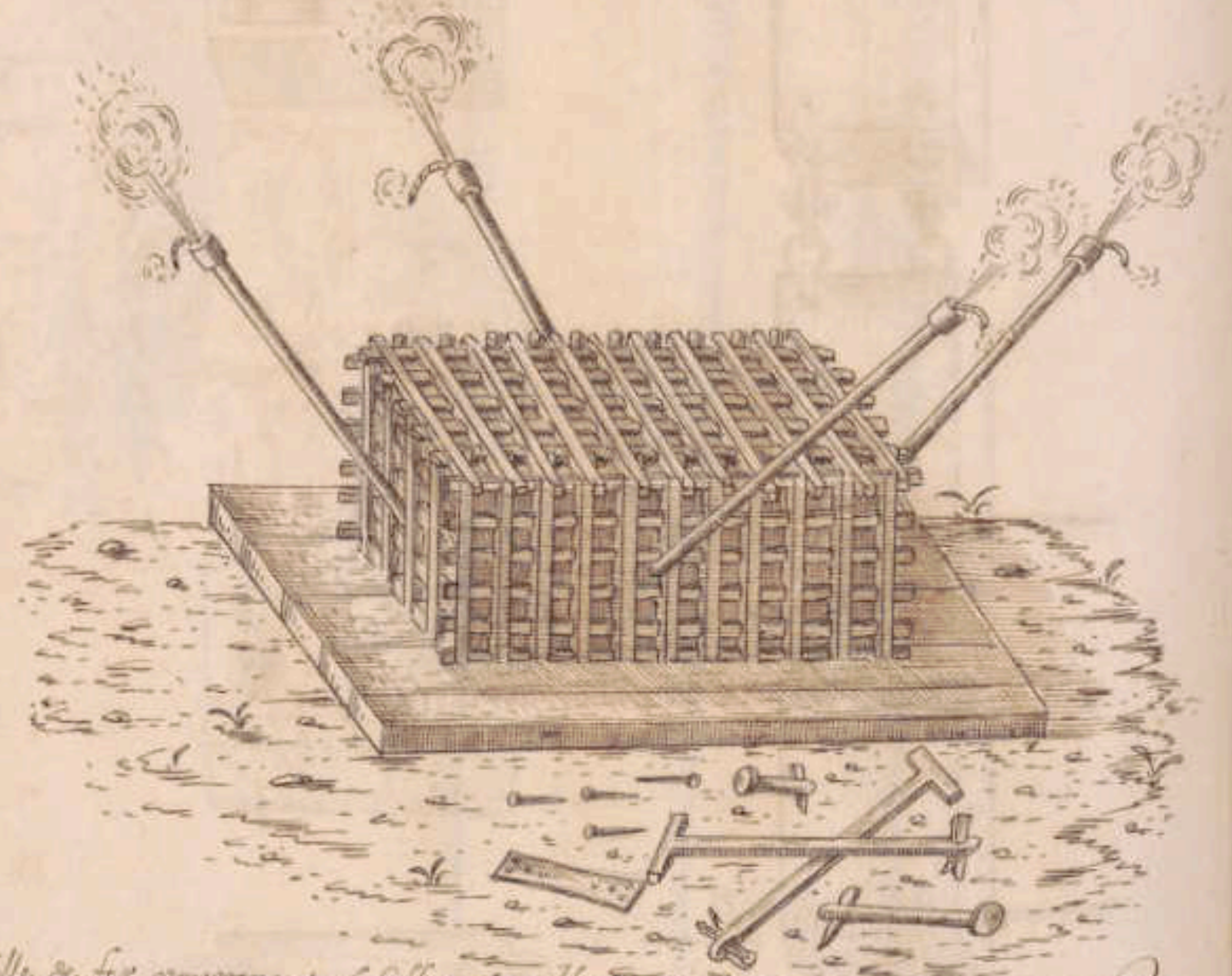
Coffres de Liege connectes de Corebas poissee, les vns aueq Petards chargez de fine poudre, les Autres aueq feu Boullant d'Artifice, le tout bien joint, et calfentre aueq de la mousse de Balleaux.



Pour faire le Coffre pour mettre dans Nauieres d'Artifice.
Lequel doibt estre epoiz quatre pouces, forbois

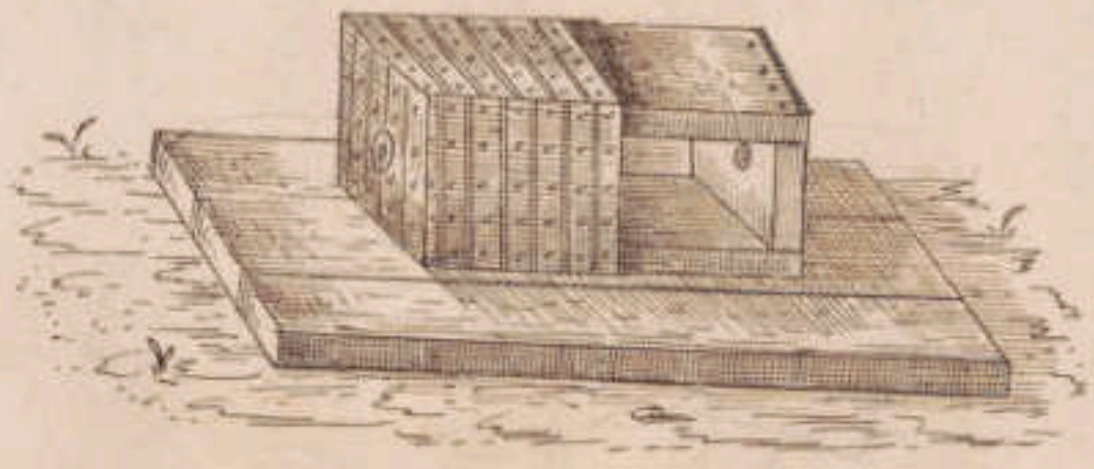


Pour les Artifices
Sans apres font bien Bandes de Bandes de fer entrecroise changes selon sa grandeur
de pondre à Canon

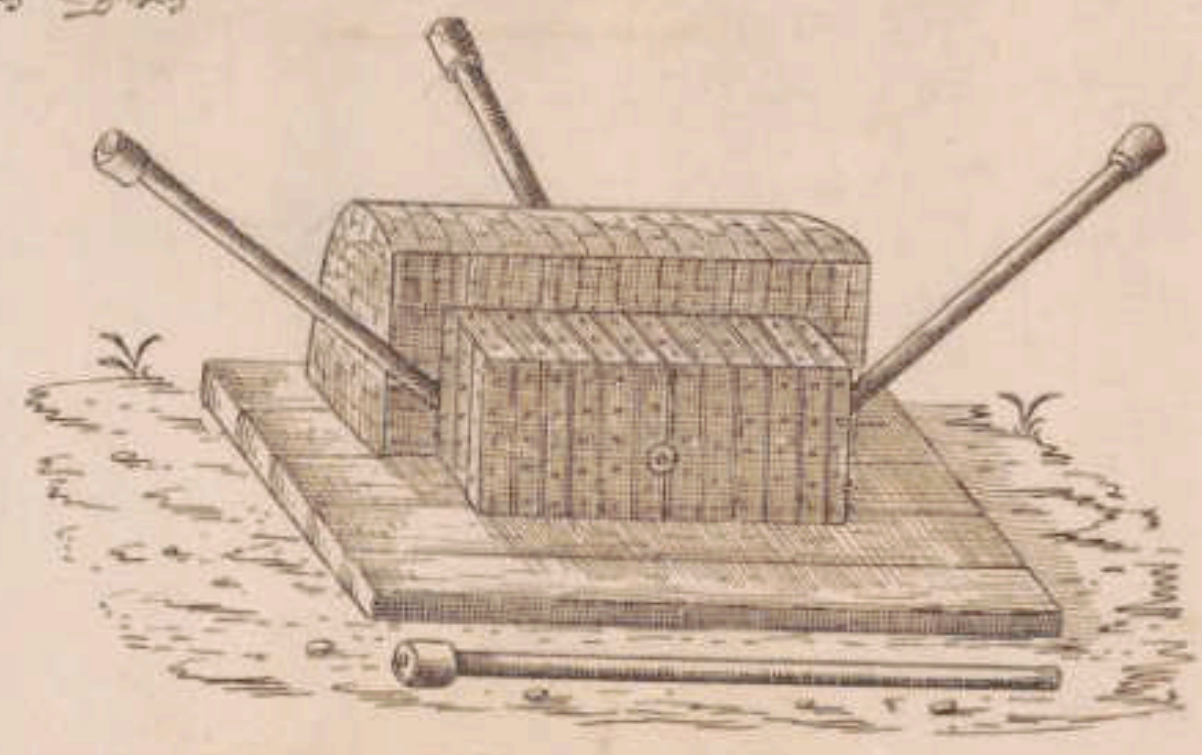


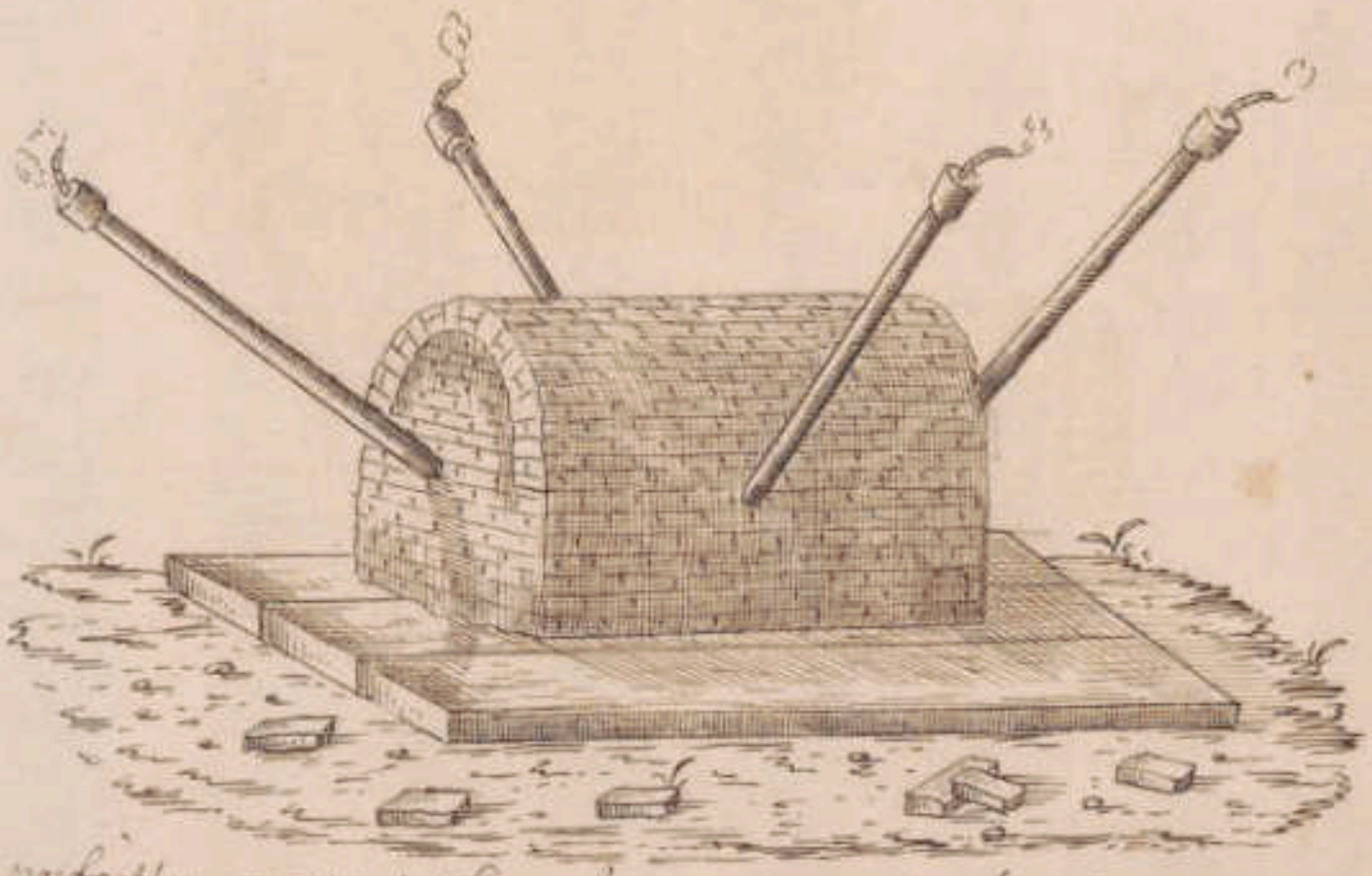
Oille de fer comprenant le Coffre laquelle doibt estre forte et massive Pour
Esupporter grande pesanteur et quantite de grosses pierres Et Caillous avec
ses Bases, fusees et autres Instruments propres a Pondre et Serrer la
Cragine.

Coffre de bois de quatre pouces de pois Bandes de fer et Charge de poudre



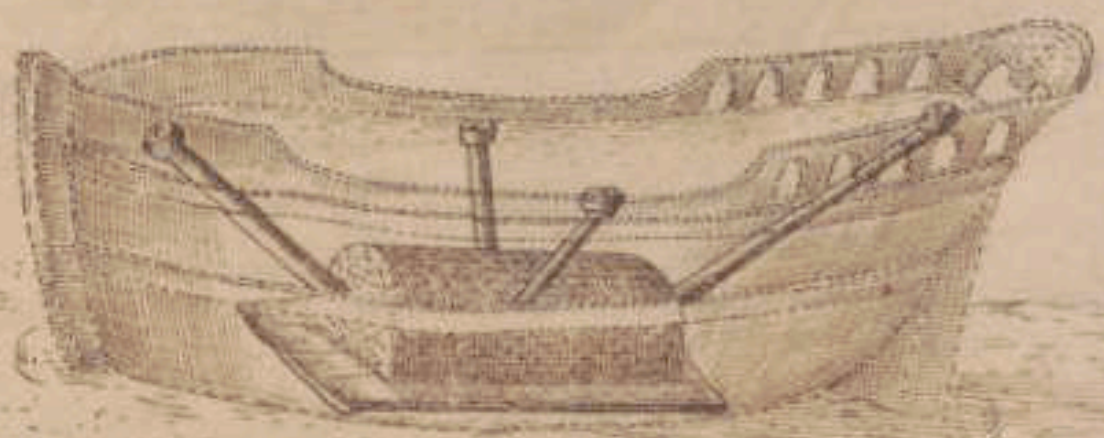
Comme se doibt macorner en forme de Boute Ménteuse du Coffre, y compreneant les Bres





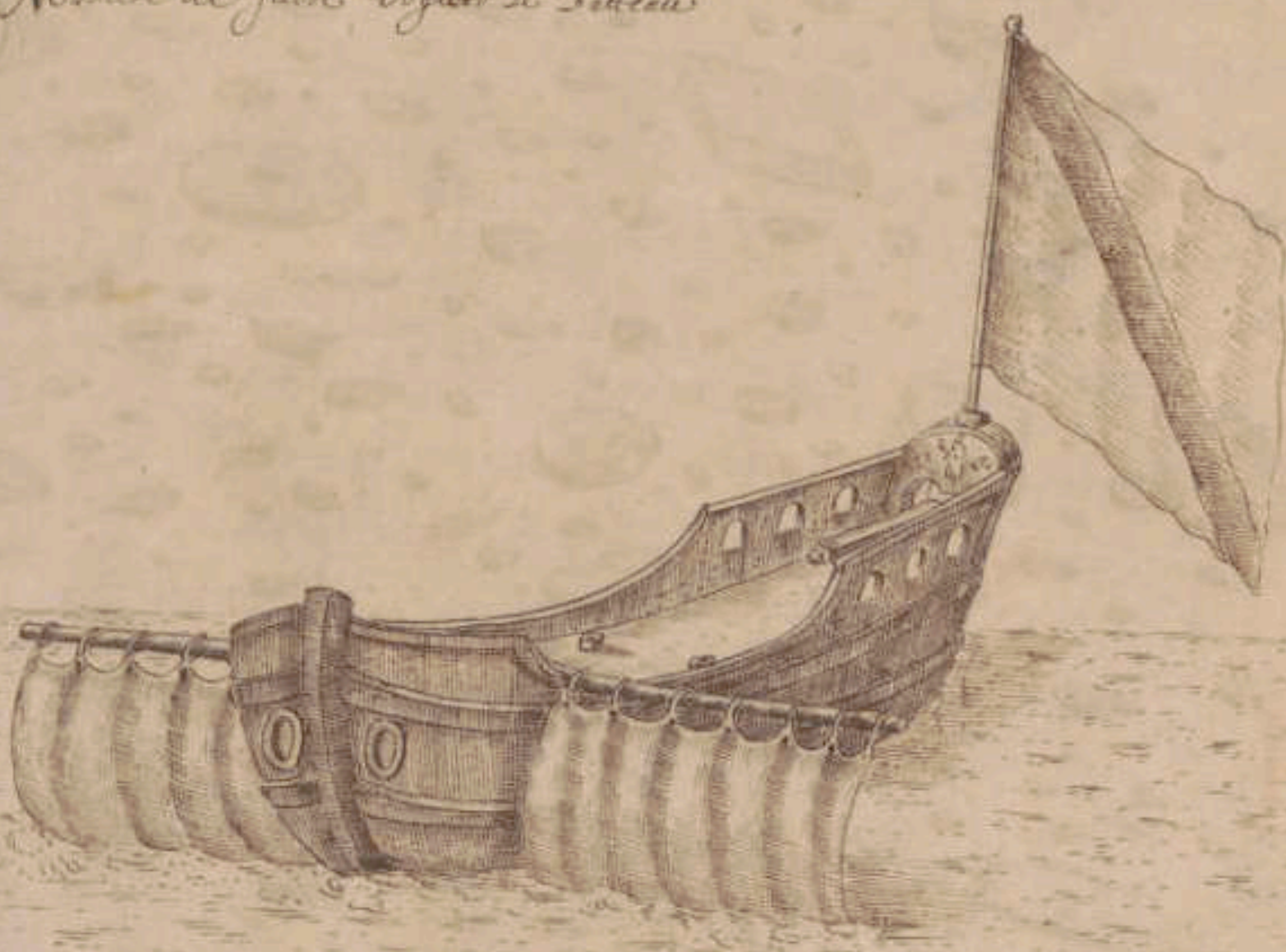
Ouvrage parfaitte, prette à estre chargee de meules d'moulin et autres grosses pierres

Le Coffre composé dans sa Boute et posé dans le Batteau prêt à charger de moules à moulin et grosses pierres de sepulteures

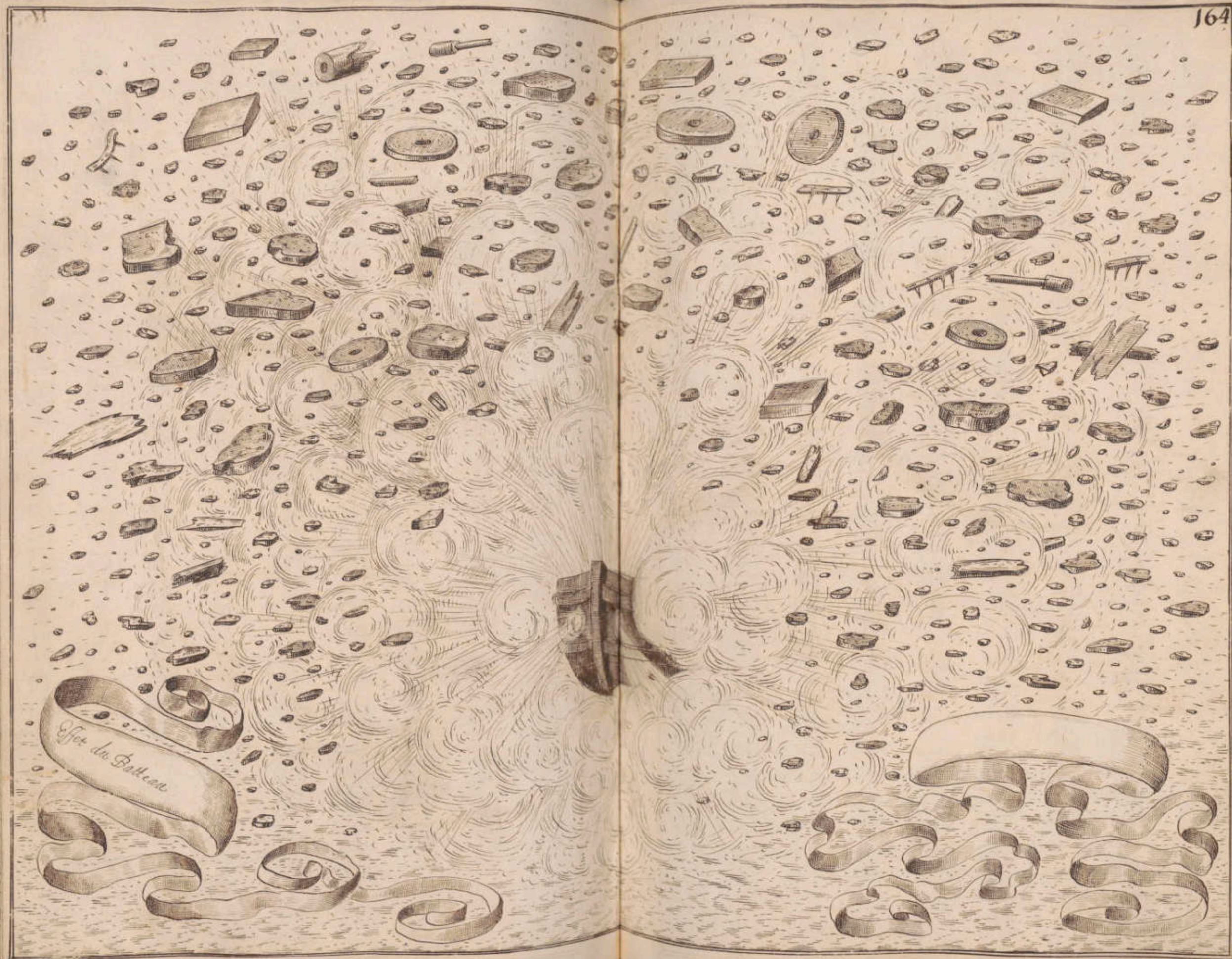


Le Batteau chargé de tout ce qui convient à faire son effet

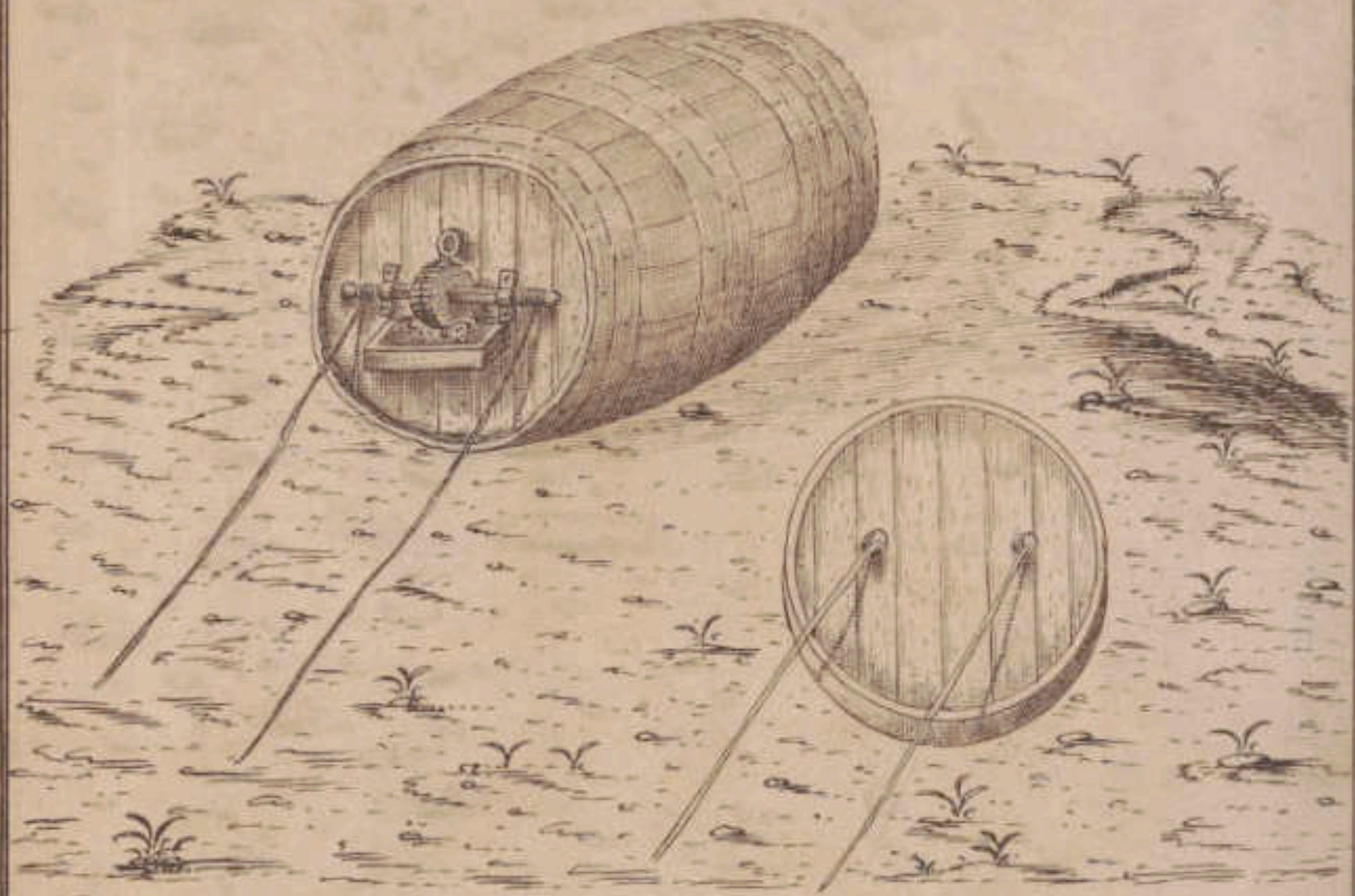
Maniere de faire voguer le Batteau



Autre maniere de faire voguer un so trouve pea
d'eau

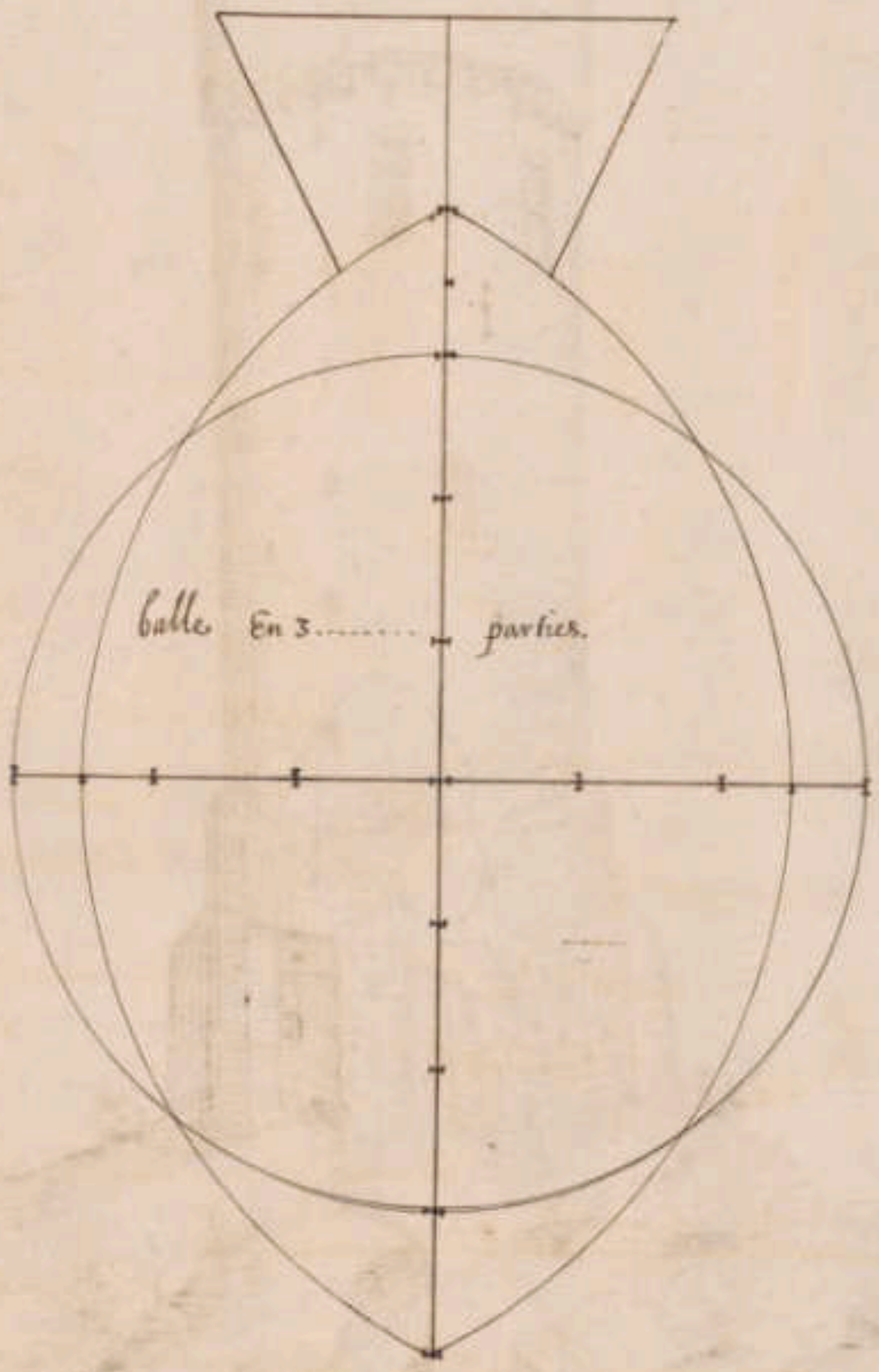


Tonneau plein de poudre avec ressort pour enlever terrace ou gasser mines

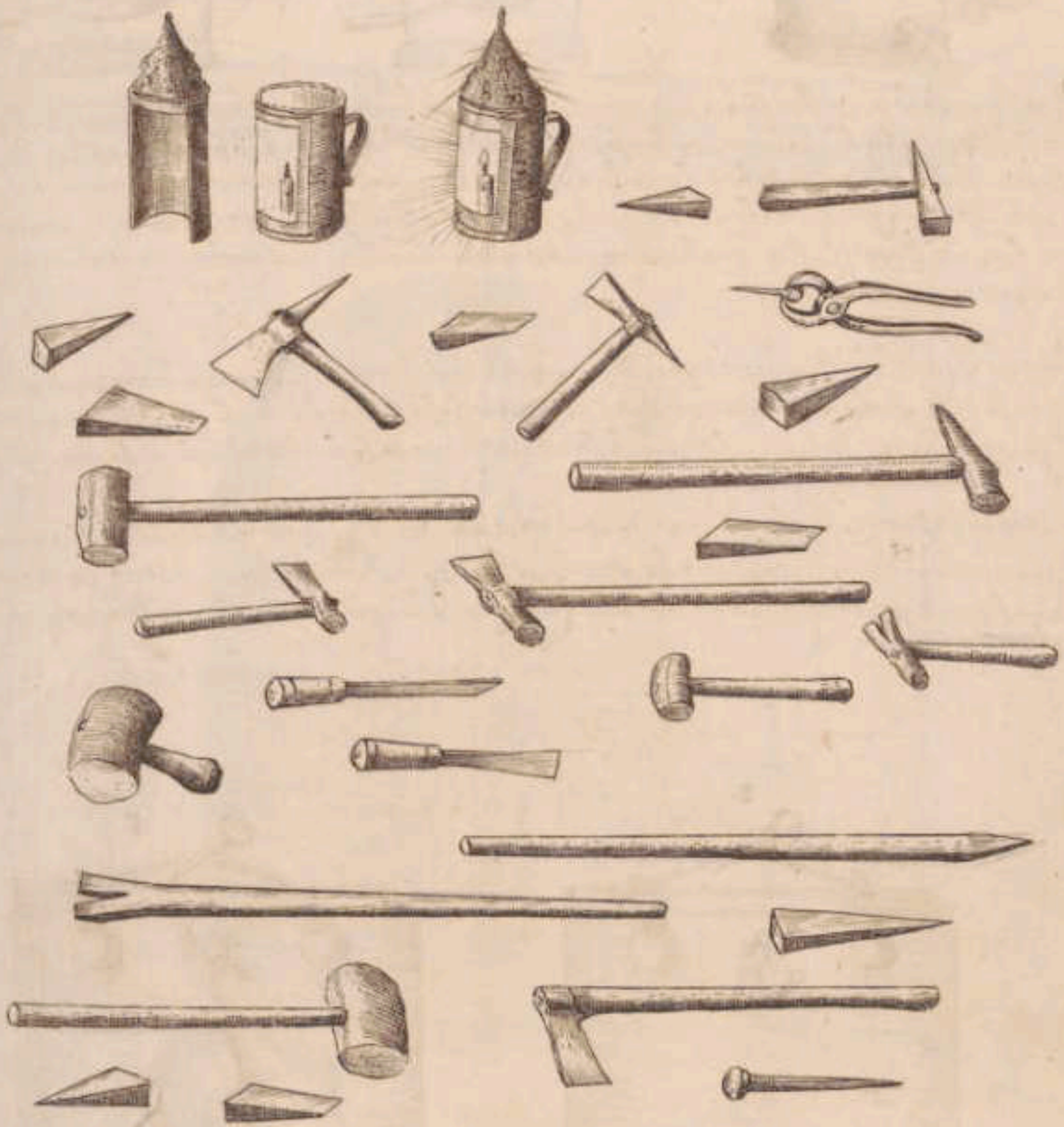


Ce tonneau doitt estre de bois fort et épais et lié de bandes de fer plein de poudre fine avec une Buse de pure poudre, que Responde à un engin en bon ordre comme, on se y a deux meules de pierres avec un tour, en facon que tirant par deux cordes les pierres font feu ayant de la Poudre tout autour et touchant les pierres que donne feu à la Buse, et la mine fait son effet.

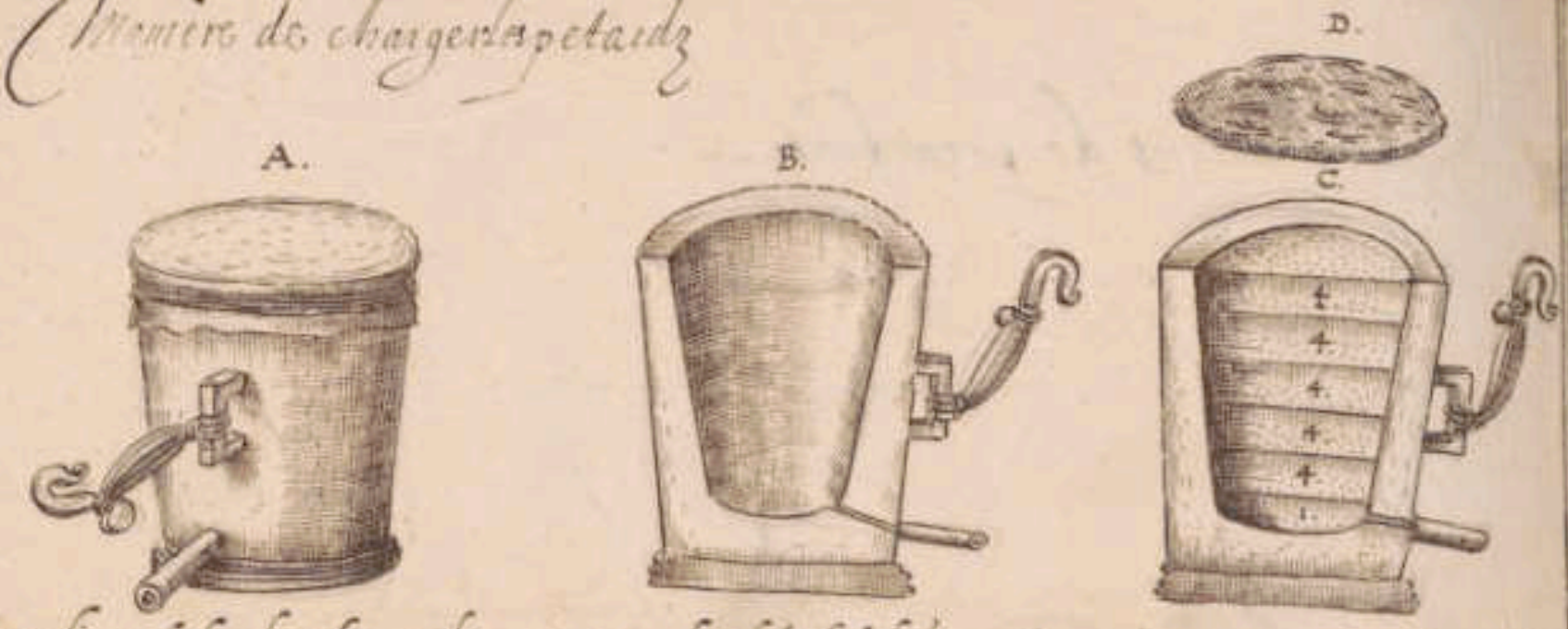
Maniere de crouer tours et Aultres edifices par le moyen de une saucisse, laquelle doibt estre faite de grosse toiles ou Canebas.



Instrumens de petarderie.



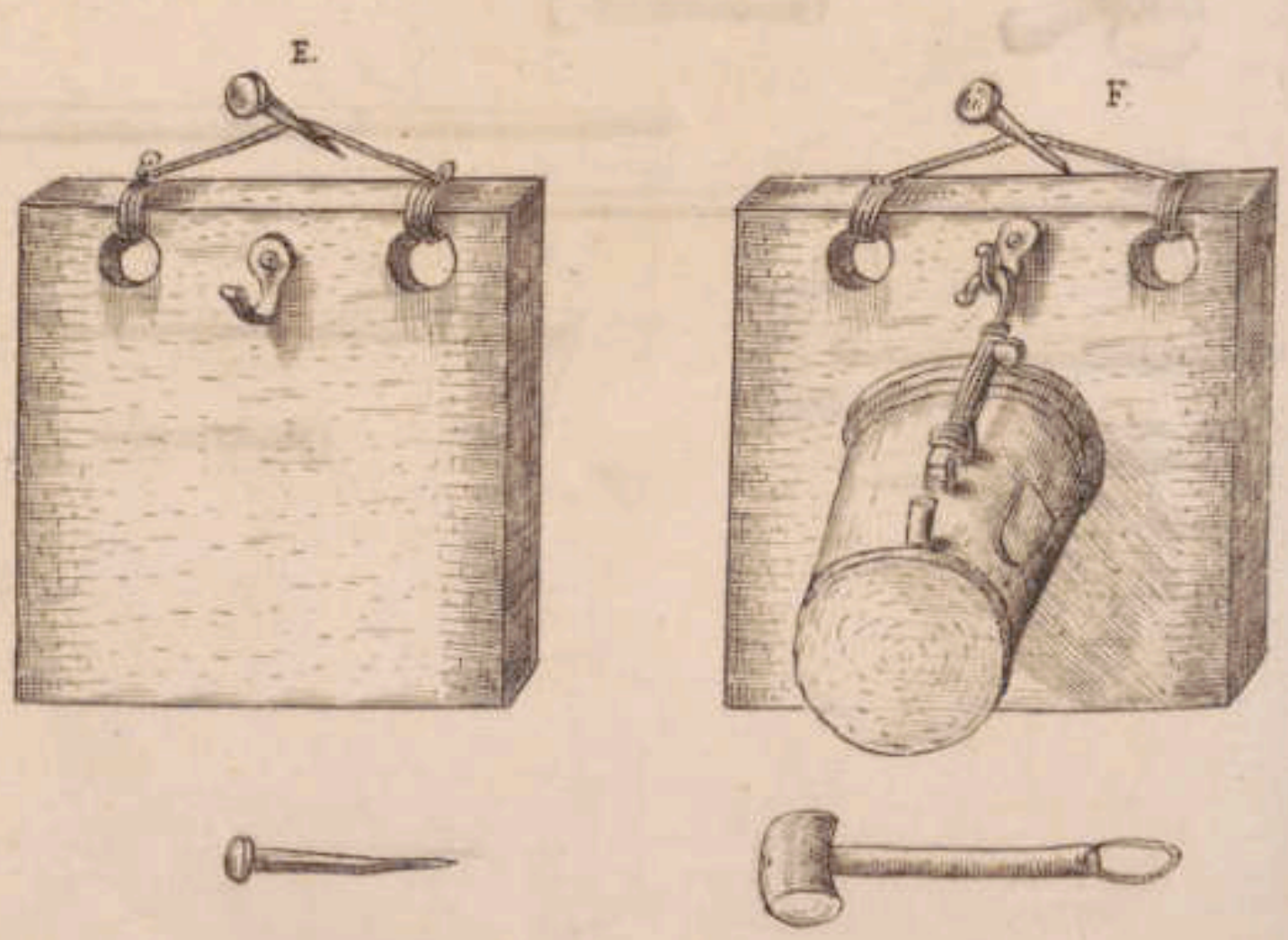
Maniere de charger les petards



Une Livre de la plus fine poudre pour mettre a l'endroit de la lumiere en fusee; puis successivement de degre en degre quarre poisl de poudre bien battue et serree sans toutefois estre corrastee; car ainsy elle perd sa force. Il faut estant chargé et bien pres du bord, faire un trou de filace bien seche duquel le calibre sera. Tousjours et etroittement etoupé. Et dessus sera distillé cire fondue, envelopper le petard d'une forte toile, laquelle sera etroittement serree, et dessus faire une Coutte de cire, pour le contregarder de toute humidite, et empescher que tombant en l'eau, elle ne penetre jusques a la poudre.

Pour la fusee Il faulx avoir poudre bien fine, laquelle sera battue aussi menu qu'il sera possible, et au bout en ce doibt prendre la fin sera l'epaisseur d'un pouce de soufre paluerise a fin de servir d'amorce et rendre la bigueur plus asprete, tout ainsy i'ay dit. Il faulx etoupper le bout de la fusee d'un morceau de cire et un linge.

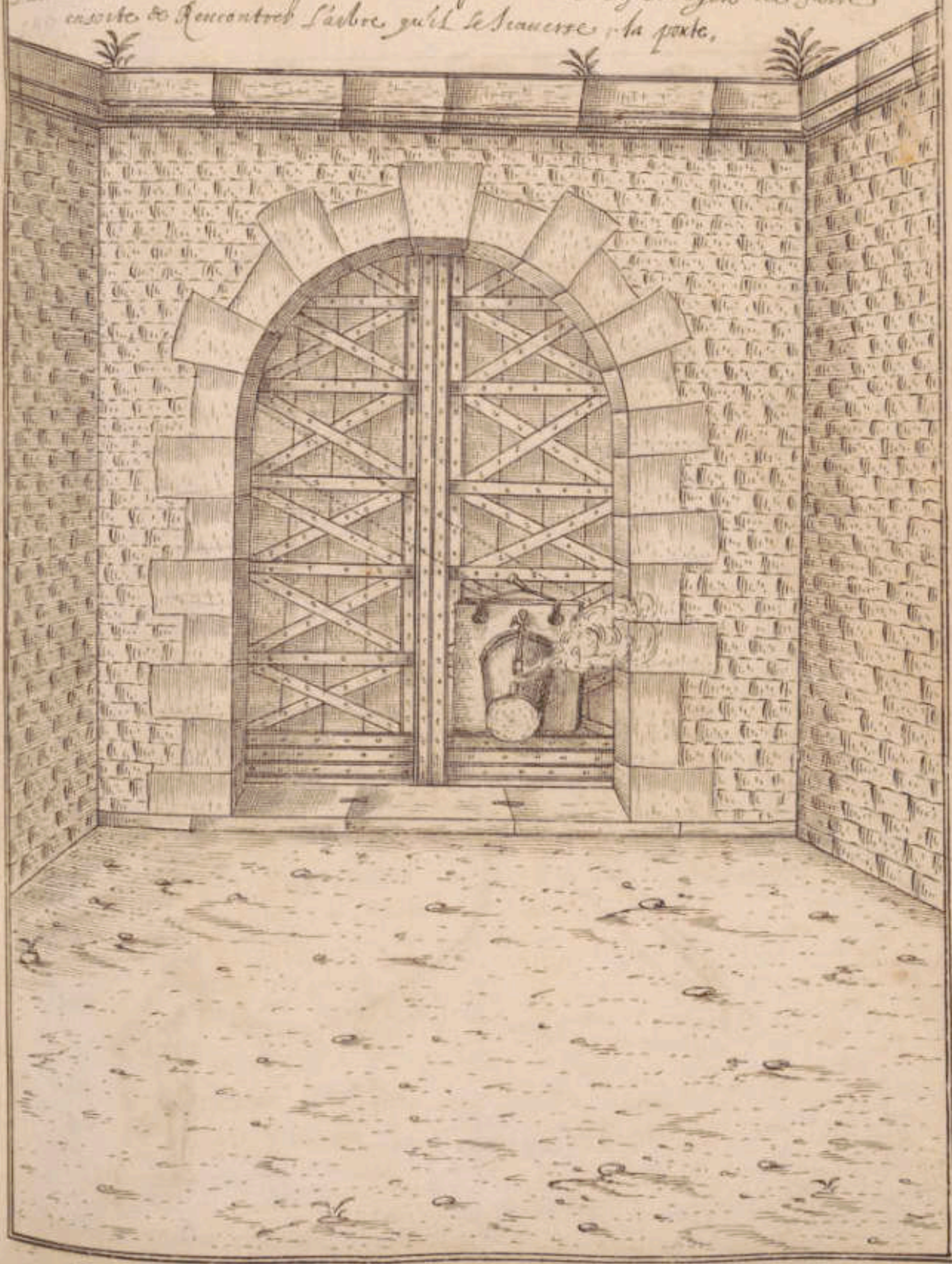
Il seroit plus asseuré si la nuit qu'on veut tirer l'effet du petard, on faisoit toutes ces choses, crainte d'Inconveniens; de cette composition furent les petards de l'Eclusa et Brenneda, lesquels n'estant que de pompe ou seize livres de poudre Ramenerent d'un seul Coup pont leuin, portes et tout ce qu'ils Rencontrerent &c.



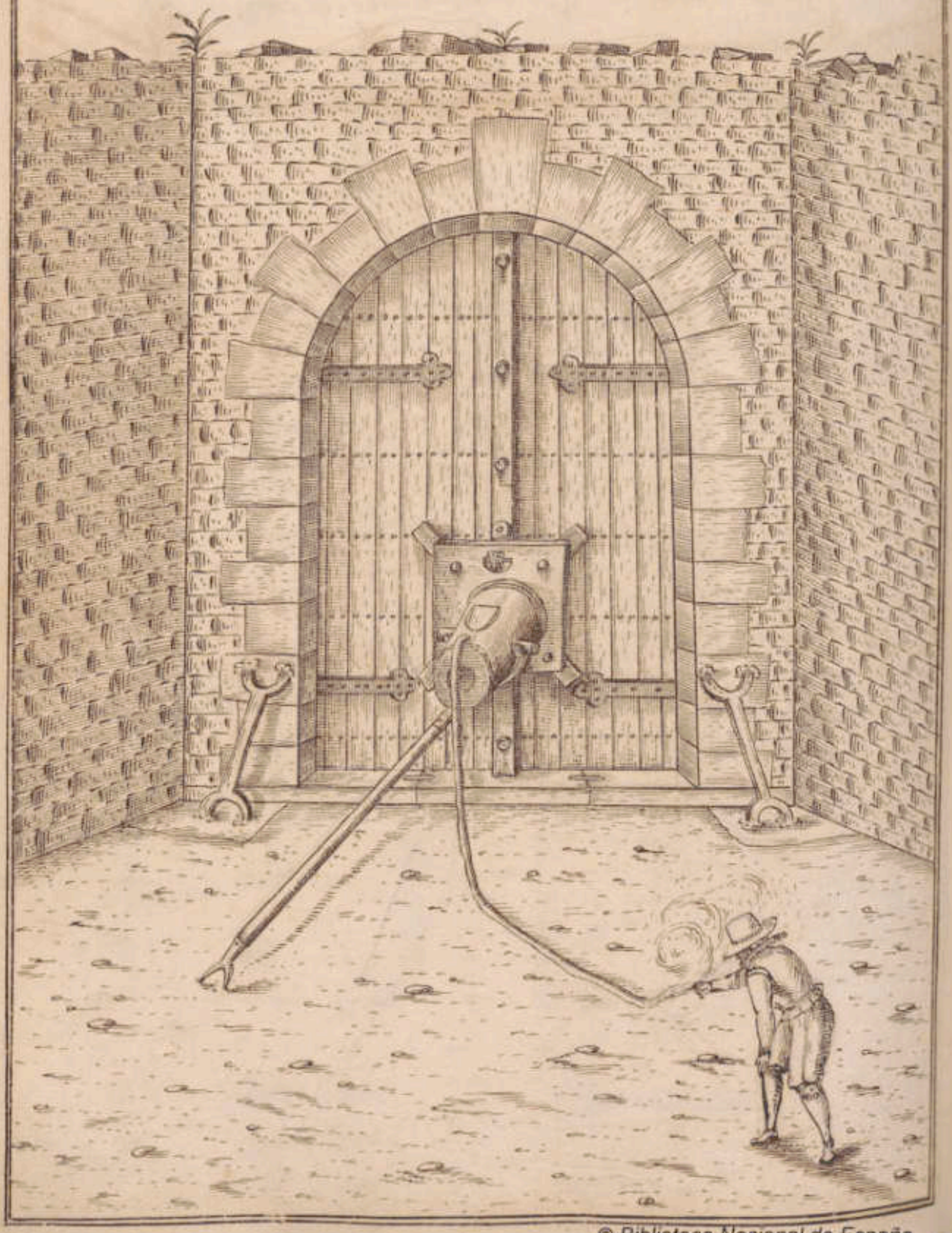
Le madrier doibt auoir trois pieds et demy en quarrure et quatre pouces d'epaisseur.

Quand on veult attacher le petard au pont levis. Il faulx prouuoir que ce soit a l'endroit du contrepoids, car c'est la ou il faict plus d'effect, Bien considere qu'il se faut pourueoir de planches pour estopper le Breche qu'il aura faict au pont, Crainte que les Soldats ne trebuchent des roues pendant entrer a la foule.

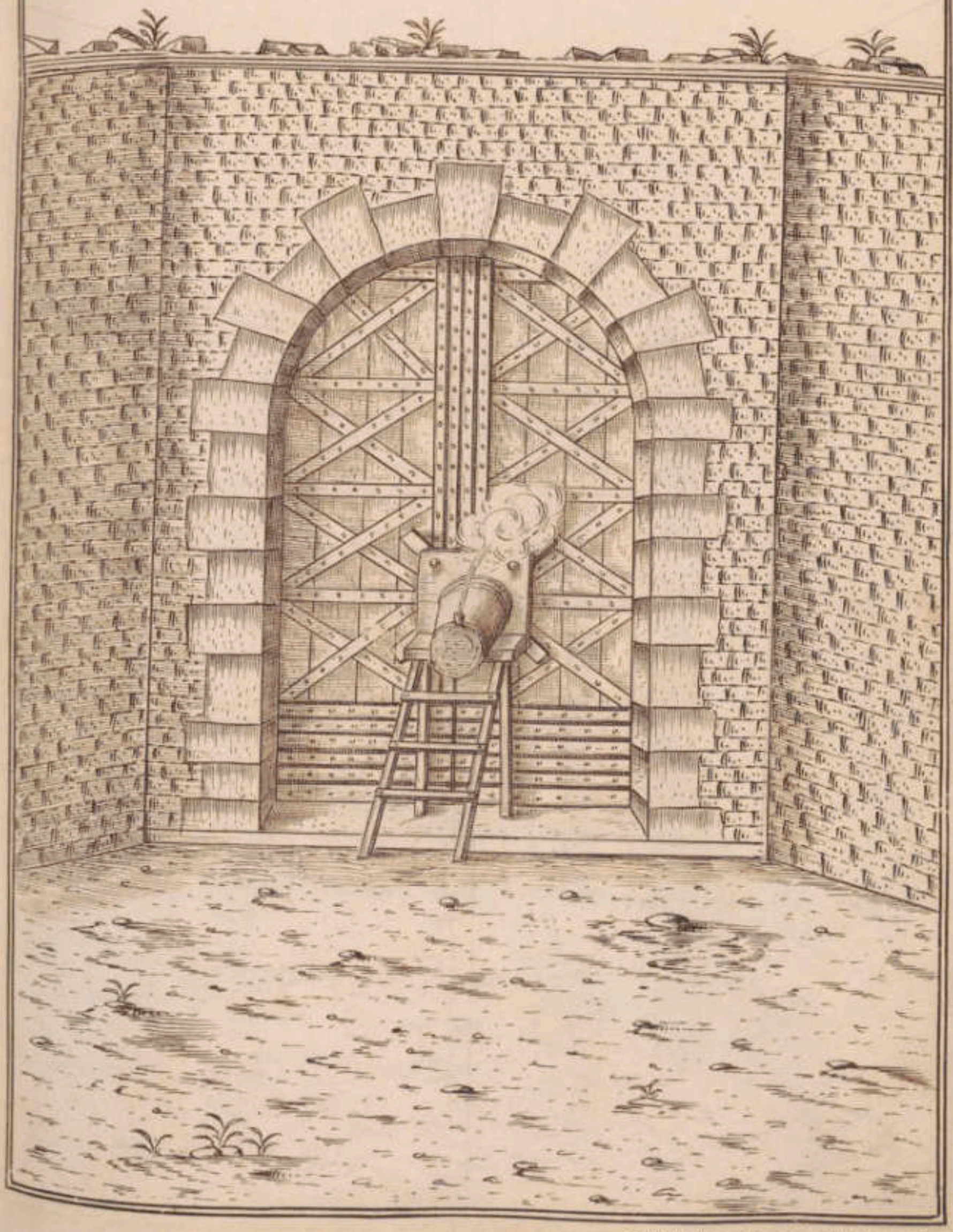
Lauancere d'attacher un petard a une porte et s'il y a moyen de faire en sorte de Rencontrer l'arbre qu'il le trauerse a la porte.



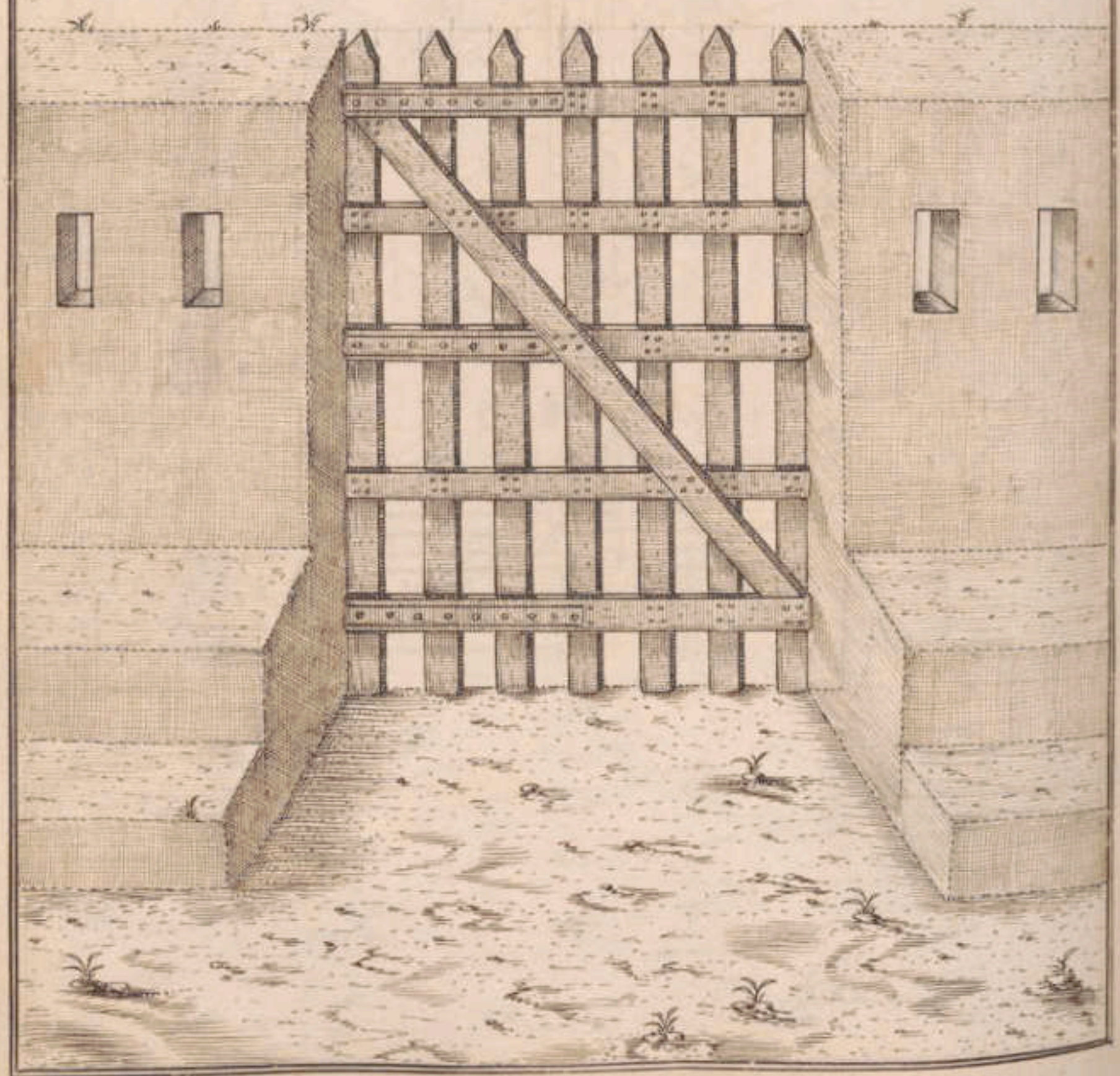
Maniere pour attacher un petard, et puis apres donner le feu pour faire sauter.



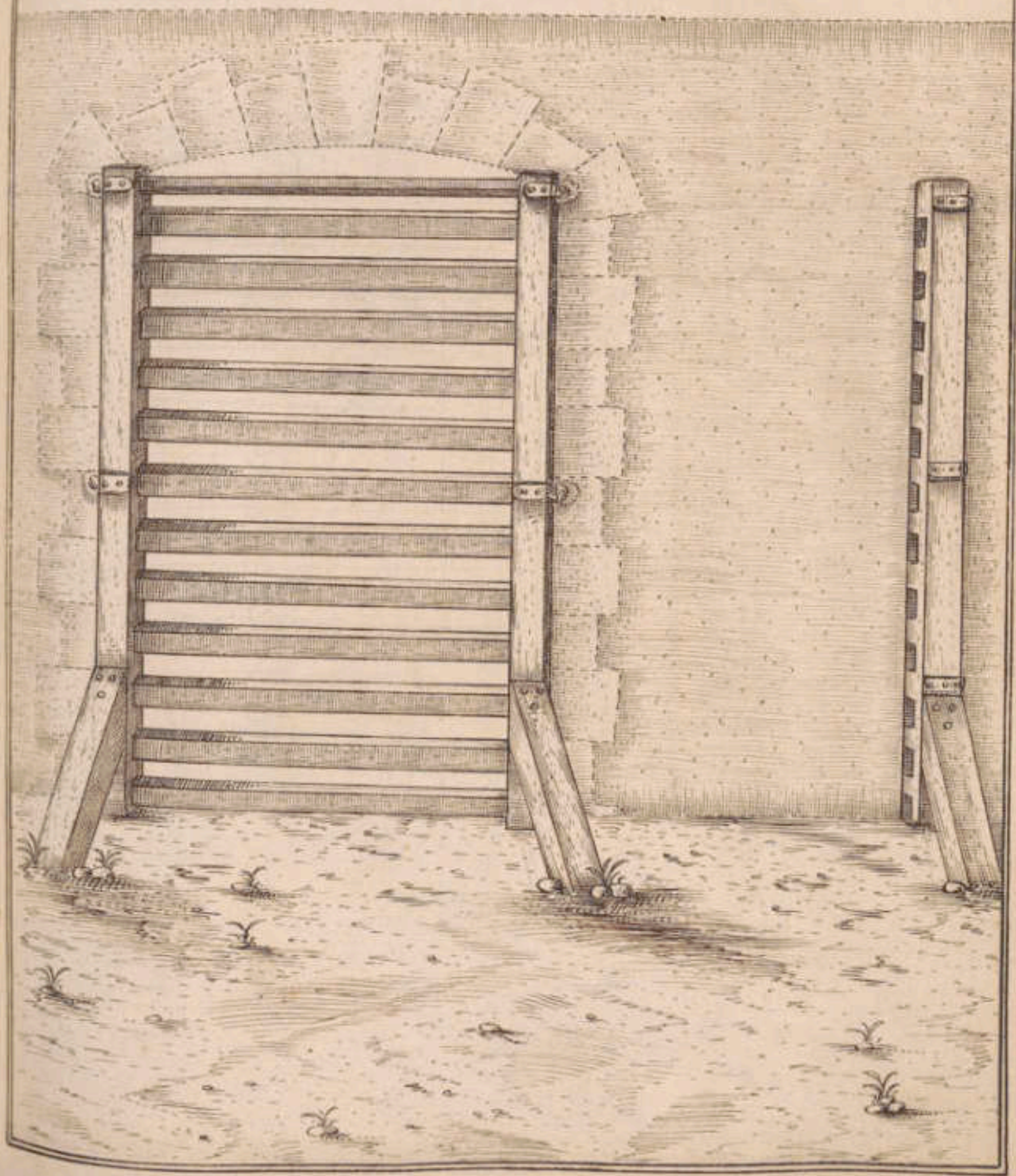
La maniere d'attacher vn grand Petard de soixante ou septante Liures de Poudre, Pce la grande pesanteur doibt estre soustenue d'vn Caualet, comme estoit Celuy qui fust employe a l'execution ou surprise de la Ville de Rabe en Hongerie.



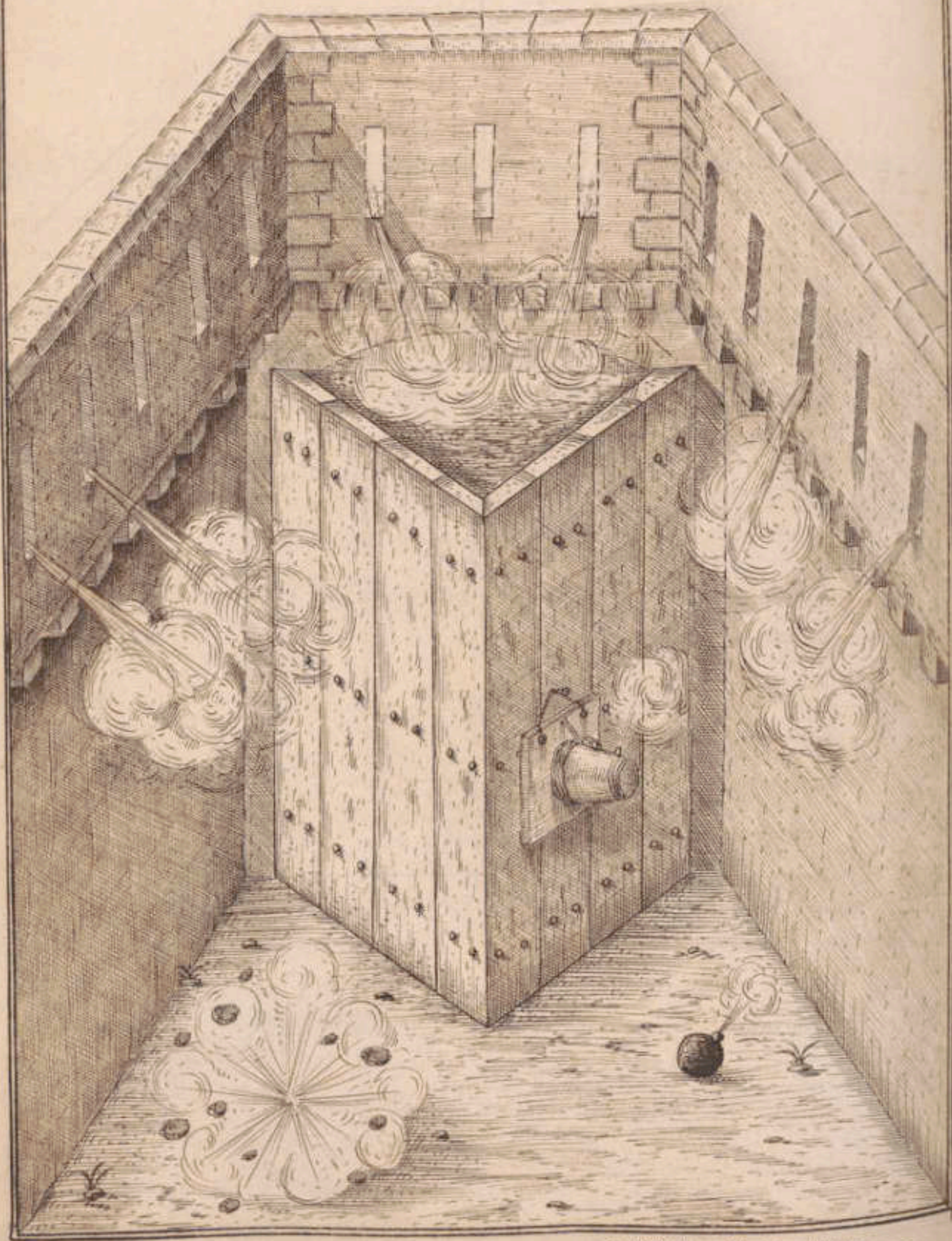
Une porte faicte en Palisade pour mettre pardedans une forteresse pour maintenir contre les portes



Faltreporte ou palliade en traucers contre les petardz, le gnoy chasque pieces doibt tenir de pesseur demy pie en Carrure.

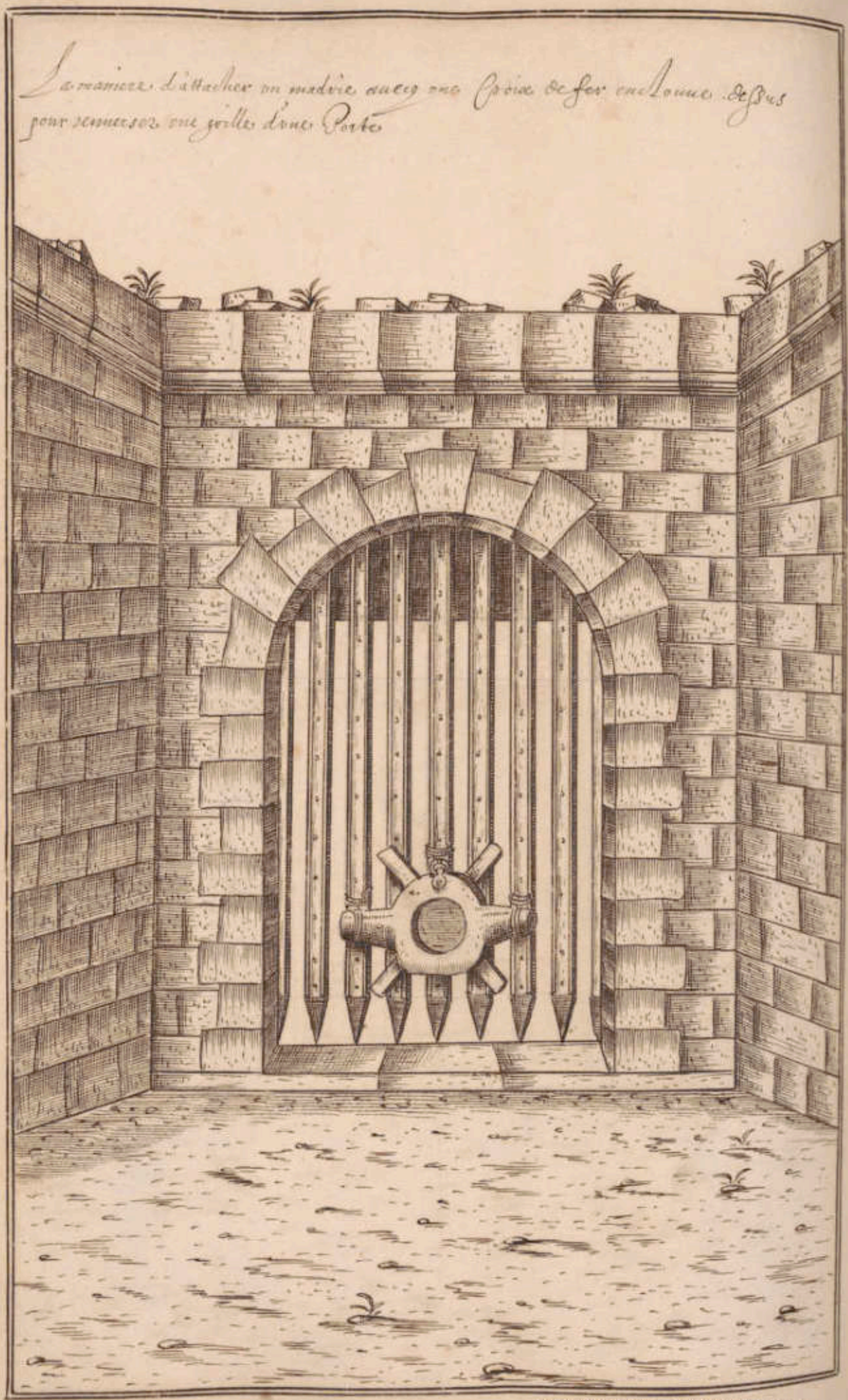


Sortie Porte remplie pavadens & fien en cultro matiere contre le Petard

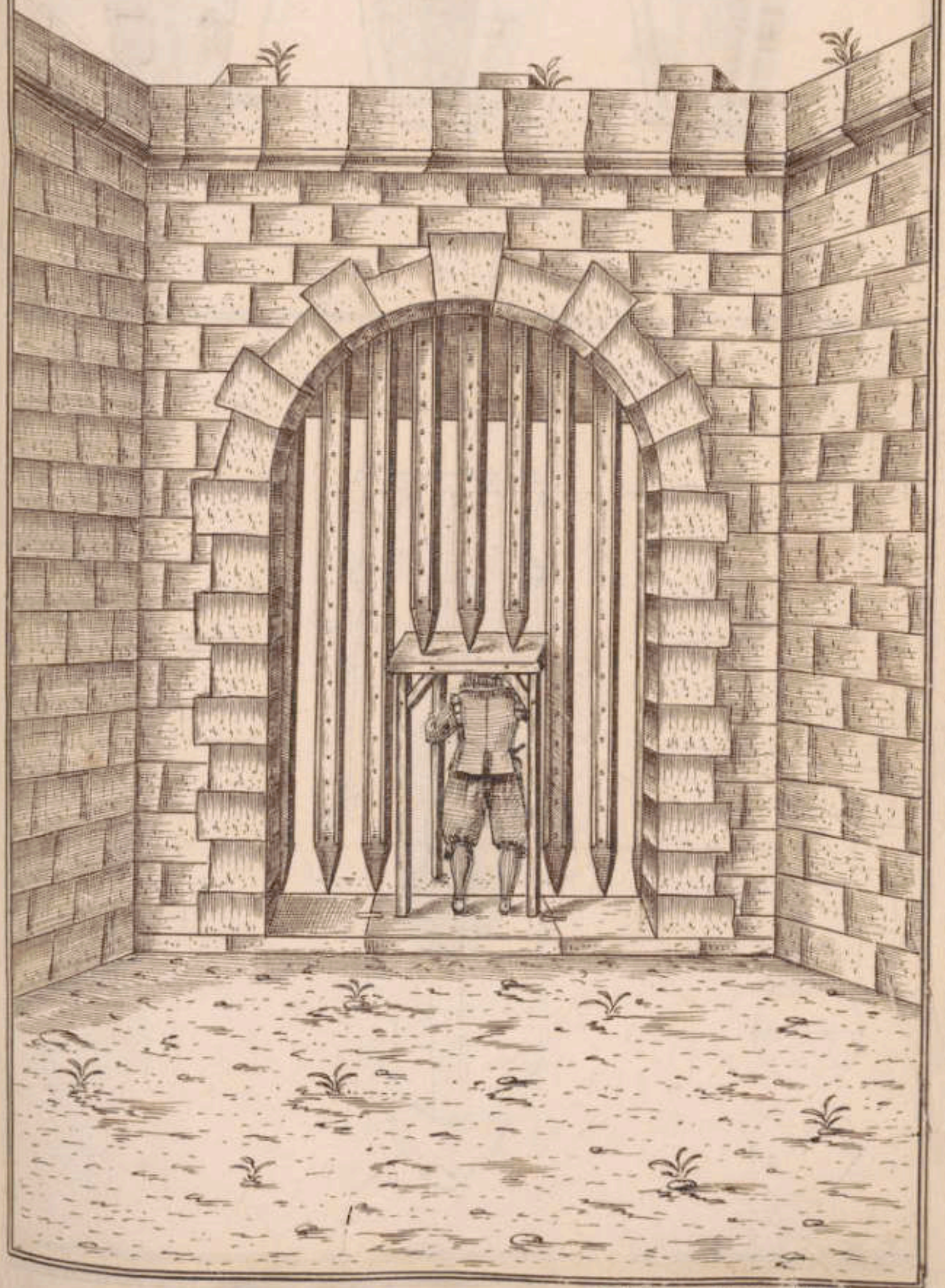


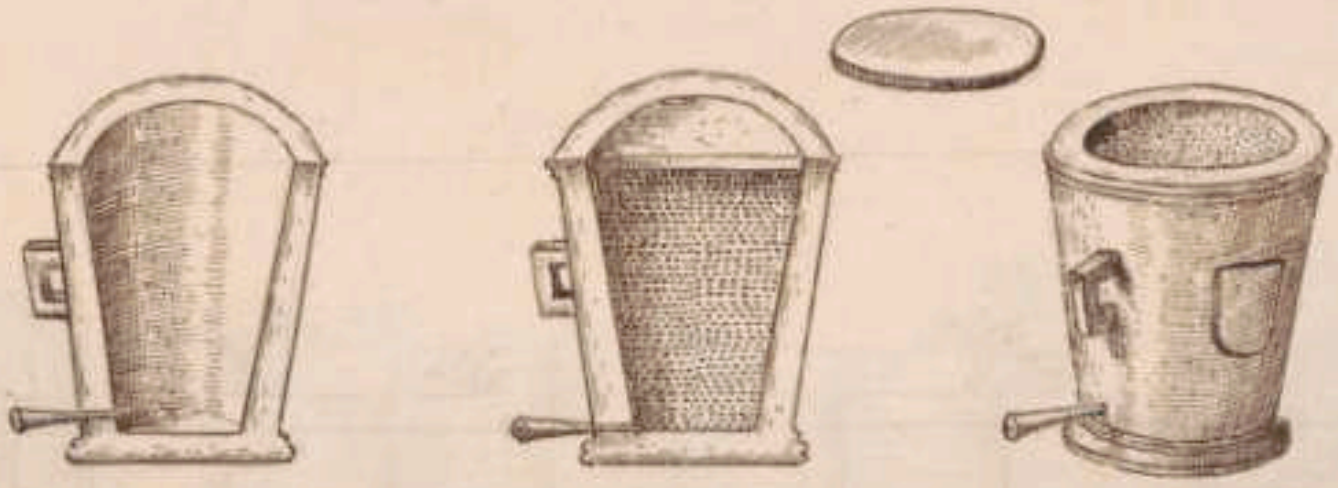
Pour attacher un petard avec un mastic sans mediu.

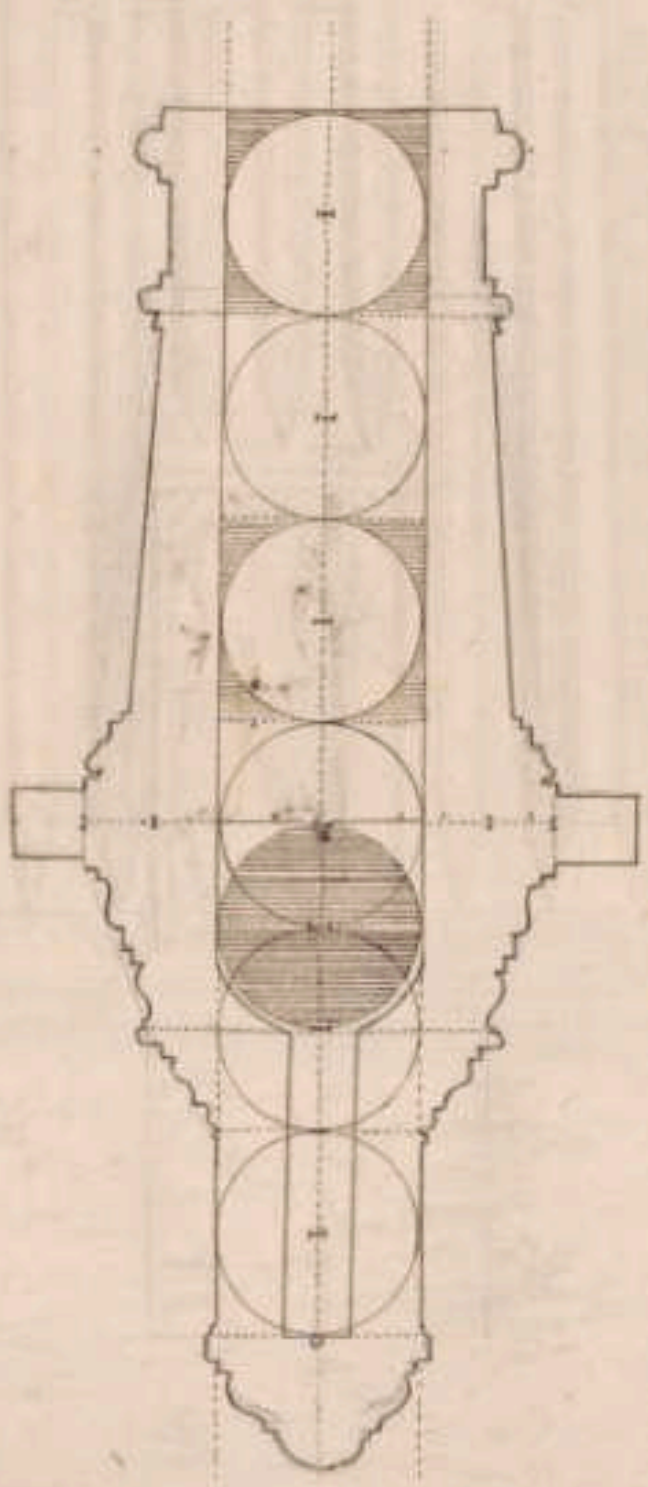
La maniere d'attacher un madrie avecq une Croix de fer en Lonne dessus pour serrer une grille d'une Porte

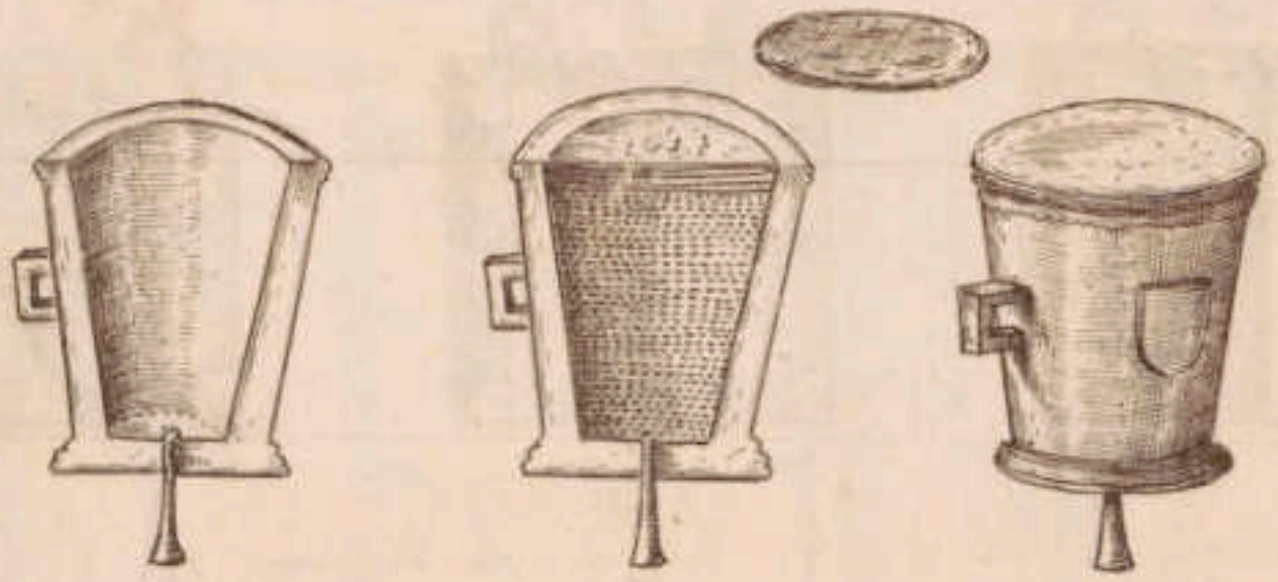


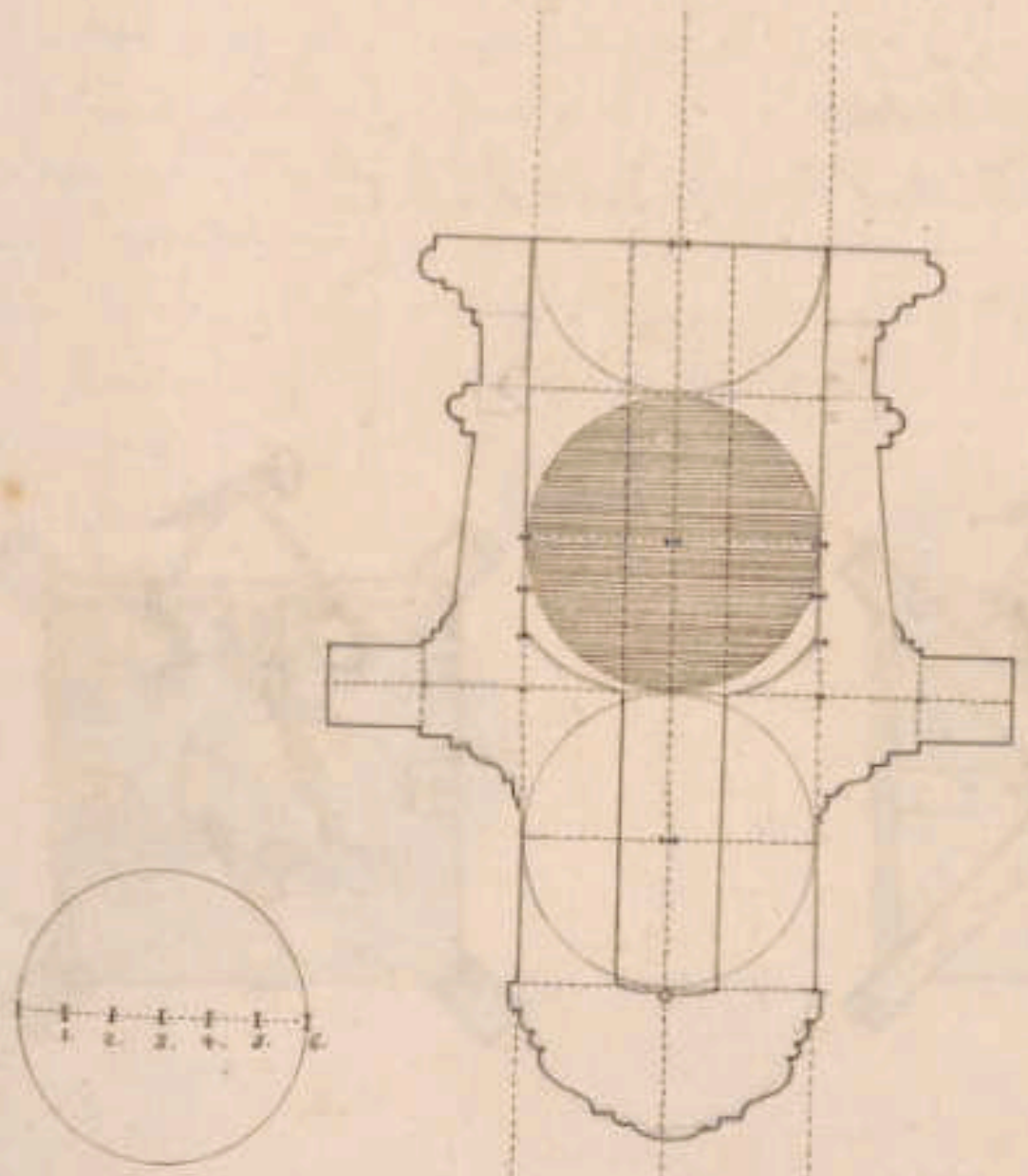
Une maniere de faire vny Chevalet de Bois Arme de Bandes de fer pour soustenir les grilles.



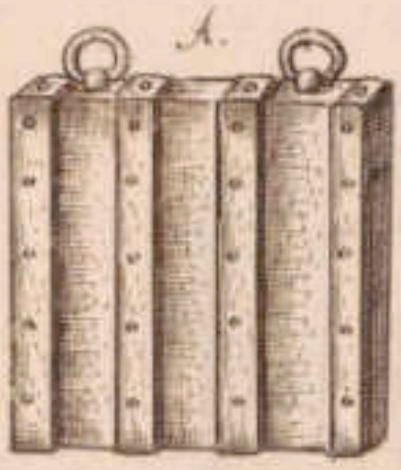


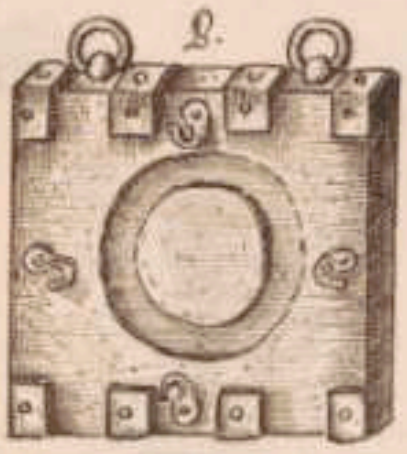


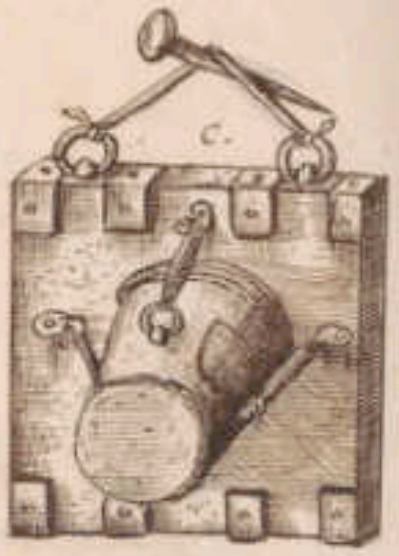




Maniere d'un Madrier, Avecq son Petard.

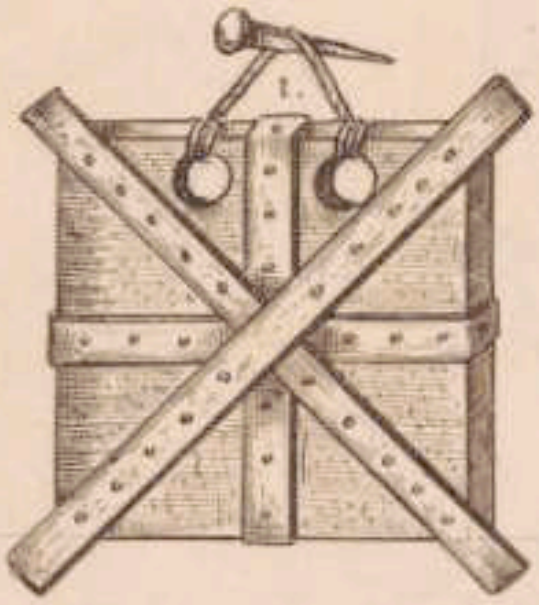


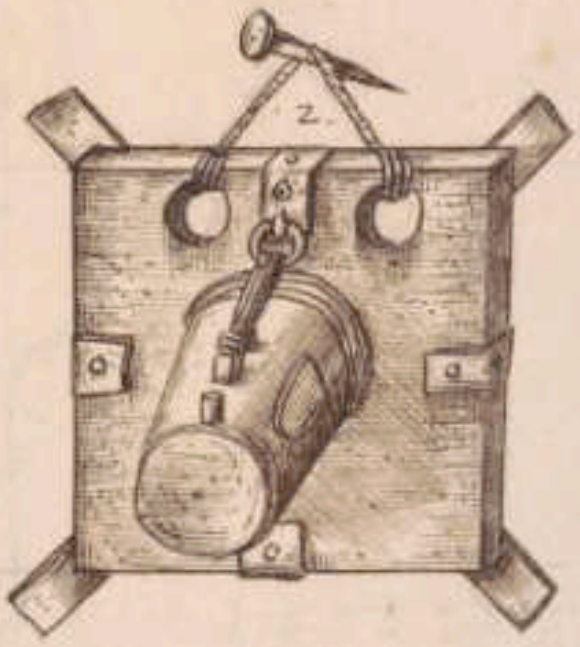




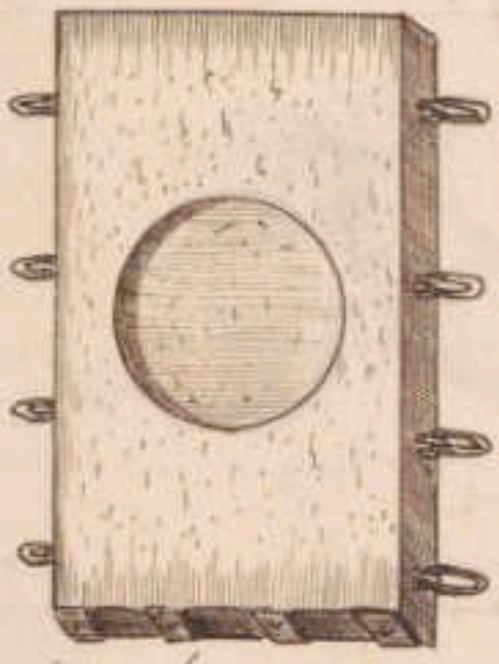
A l'exterieur du madrier, B. Interieur du Madrier C. Le Madrier avecq le petard attache.

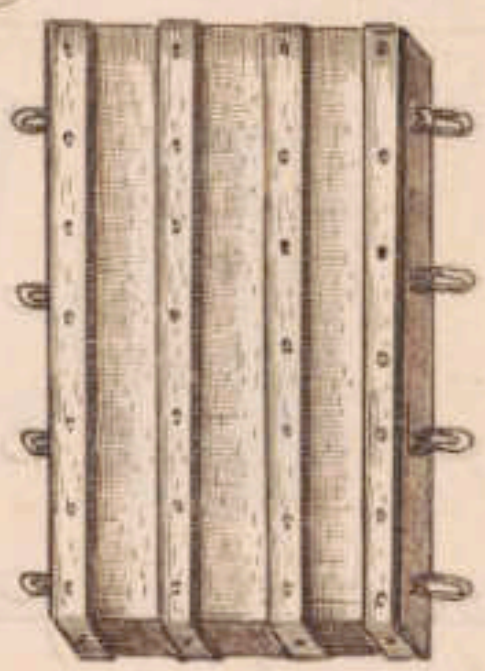
1. L'exterieur du Madrier.
2. L'Interieur du Madrier Avecq le petard attache.





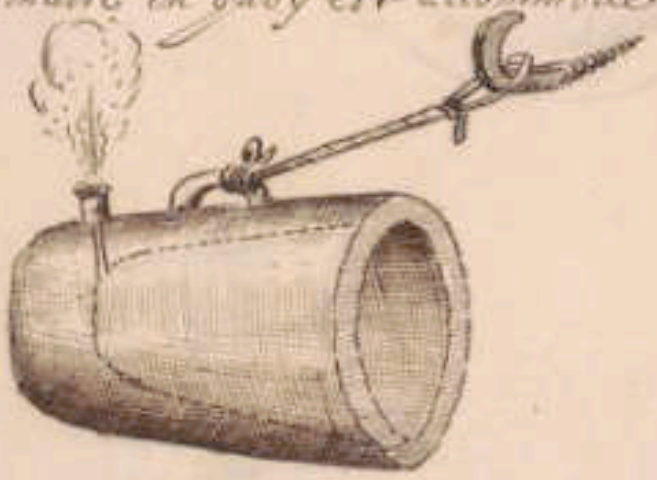
Madrie epois de quatro pouces et Ault de cincq piedz Large de trois piedz et demy, avecq vn Rondeau de la circumference du petard, en sorte que la Bouce du petard entre Justement dedans, lequel madrie doibt estre garny

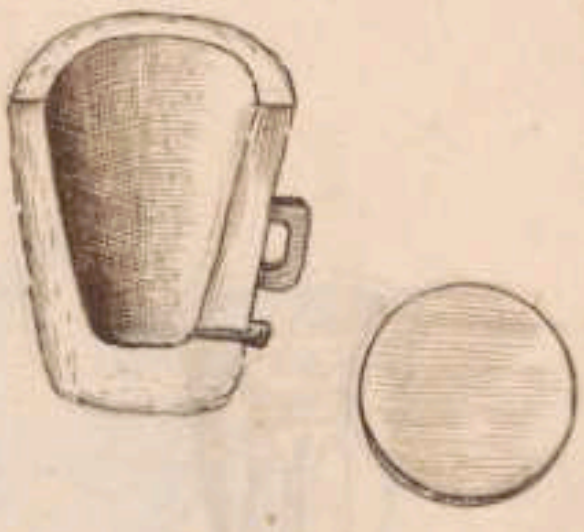




de quatro fortes Bandes de fer epois d'vn doit.

Declaration du petard, lequel doibt estre de Bronze pesant de. 70. 80. ou. 100. ℔. lequel doibt estre bien fort en diminuant par proportion envers la Culate, et percé Justement que le trou par ou l'on met la fusee, ne laisse point de chambre en derrier, puis le faut charger en sept ou huict fois, et a chasque coup le Battre doucement sans Rompre les grains de la poudre, et lors qu'il est plein a deux doigz prez, mettre dessus la poudre vn Rondeau de Bois de la mesme circumference du petard, et au tour du Bois se met des estrappes affin de le bien boucher, puis fondre de la cire Jaune dedans vn chaudron et puis apres prendre vne Cuillieve, et en mettre dessus la fouuerte du petard l'epesseur d'vn bons. a l'endroit du trou se met de la fine poudre, puis apres bien bouche, et alors que l'on se veult servir, on porte vne Buse faict a l'ordinaire en quoy est accommode la fusee.





Un petard de Bronze fait en cette manière Inventé par le Capitaine Gre Escossois.

A.

Lequel Petard A son dire ne doibt pas reculer mais faire plus d'effet que les Autres ordinaires.

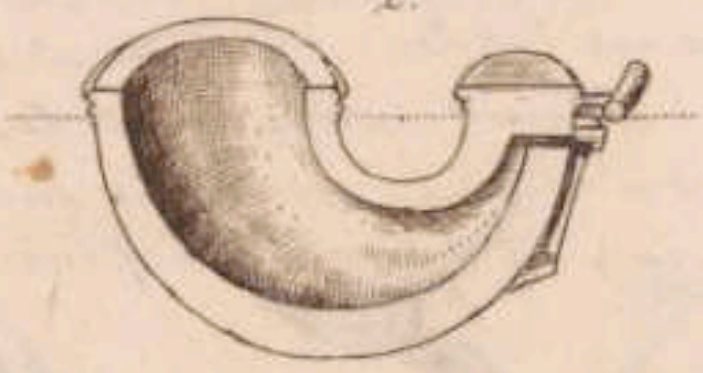
A. Le Petard entier

B. le Petard my Partie.

C. le front du Petard du costé de la fusee.

D. les Deux Cercles et distances

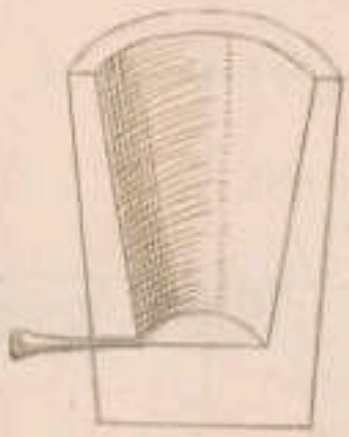
B.

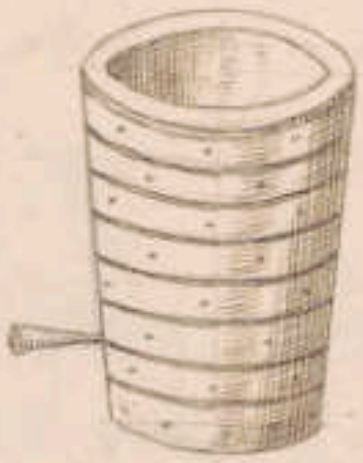


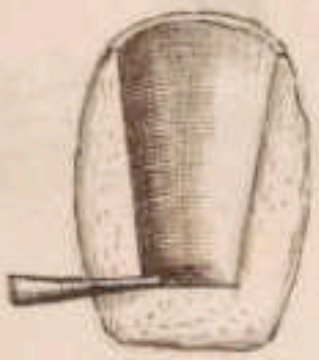
C.

D.

Petard de bois Bandé de bandes de fer, lequel on charge a l'ordinaire comme ceux de Bronze







Autre forme de Petard de Bois Bandé de Bandes de fer

Maniere d'appliquer des Petardz, pour surprises.

A, Petard accommode dans un Chettam ou monde

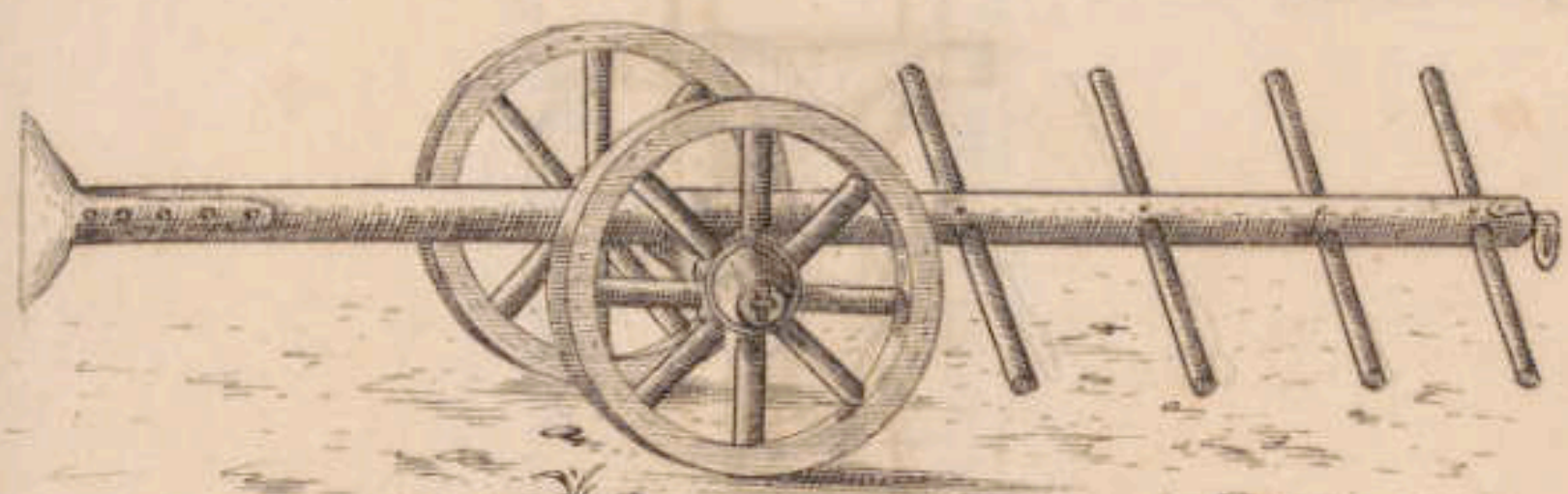
B. Petard accommode dans vne Cruche de Cuyure

C. Vn Petard accommode dans vn Tonneau

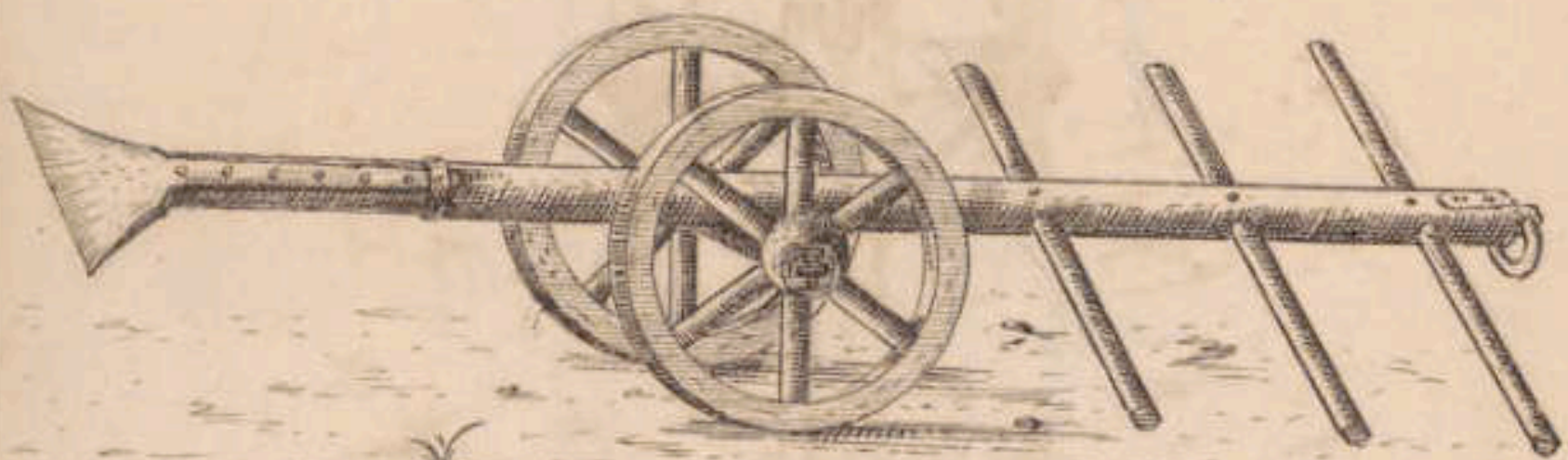
D. Petard accommode dans vn Sacq ou Bourse

Ausquelz petardz Il fault donner le feu par de Bouts de saucisses de Toile ou Cuyre seiche

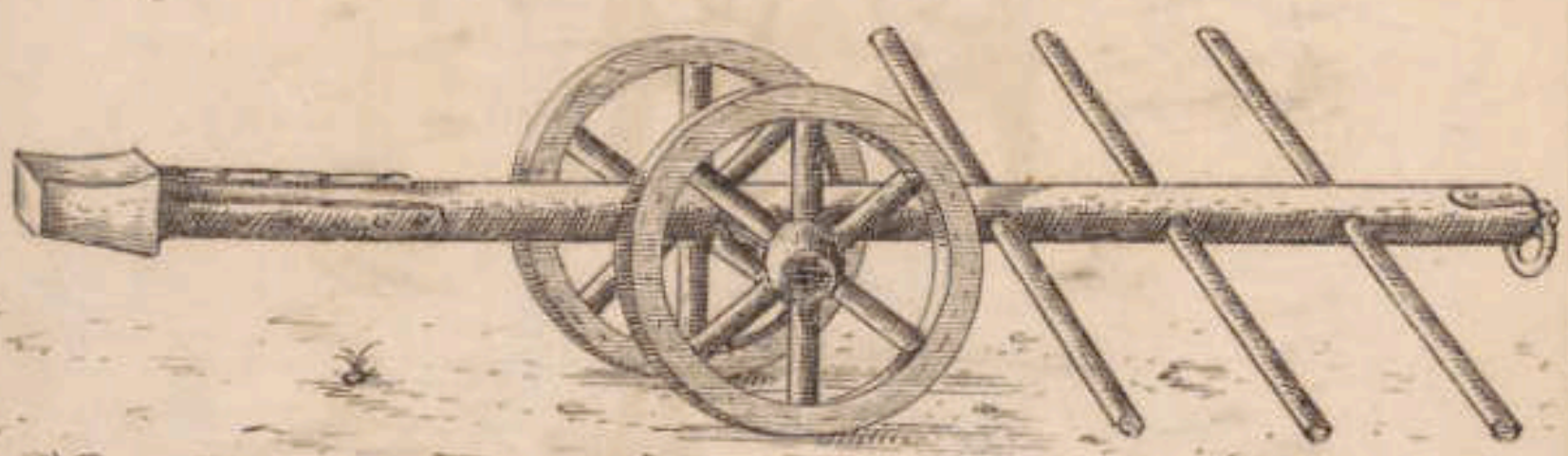
Instrumens pour enfondrer ou Rompre quelque chose que ce soit



Pour Rompre une Chesne



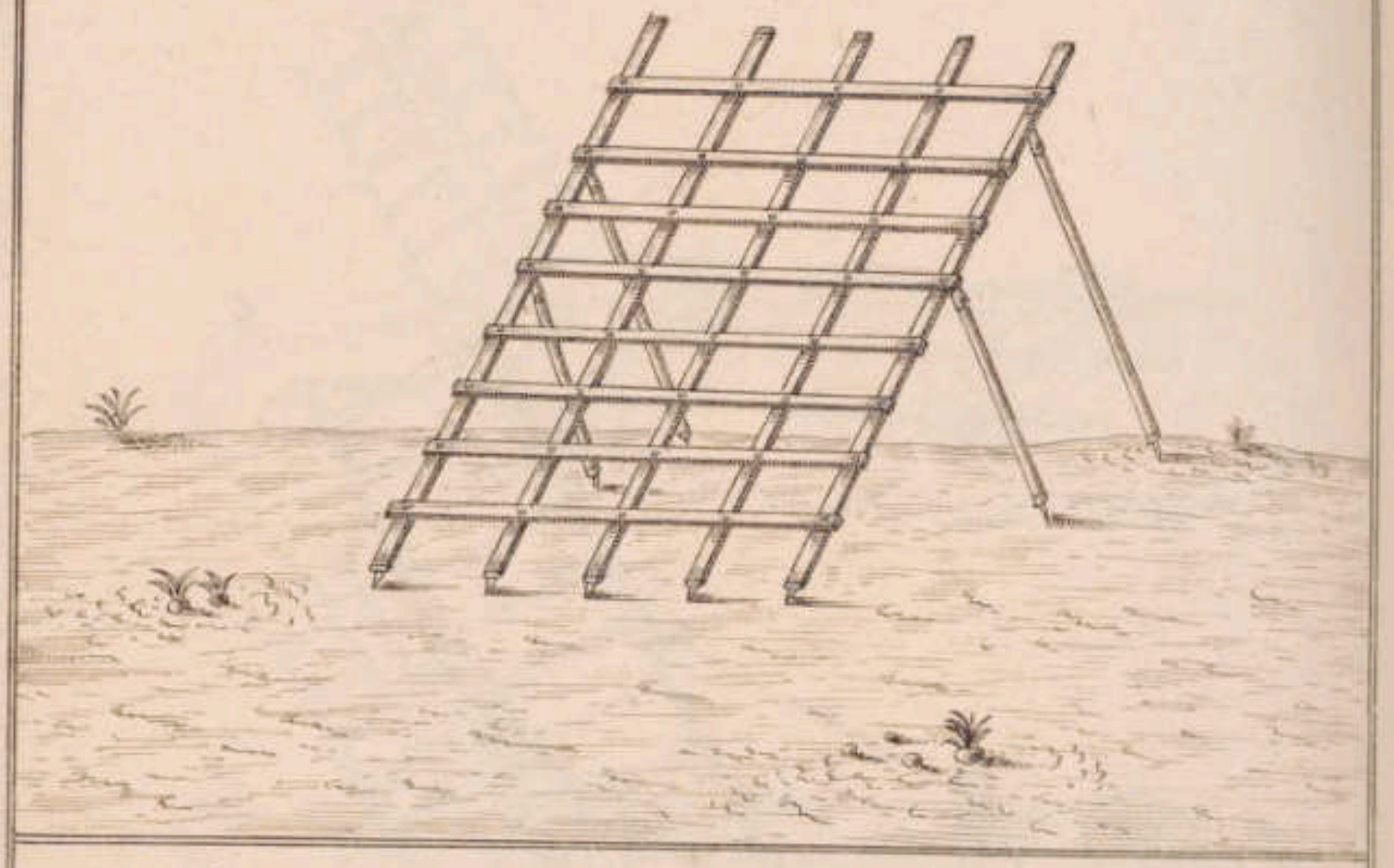
Pour Rompre Palissades



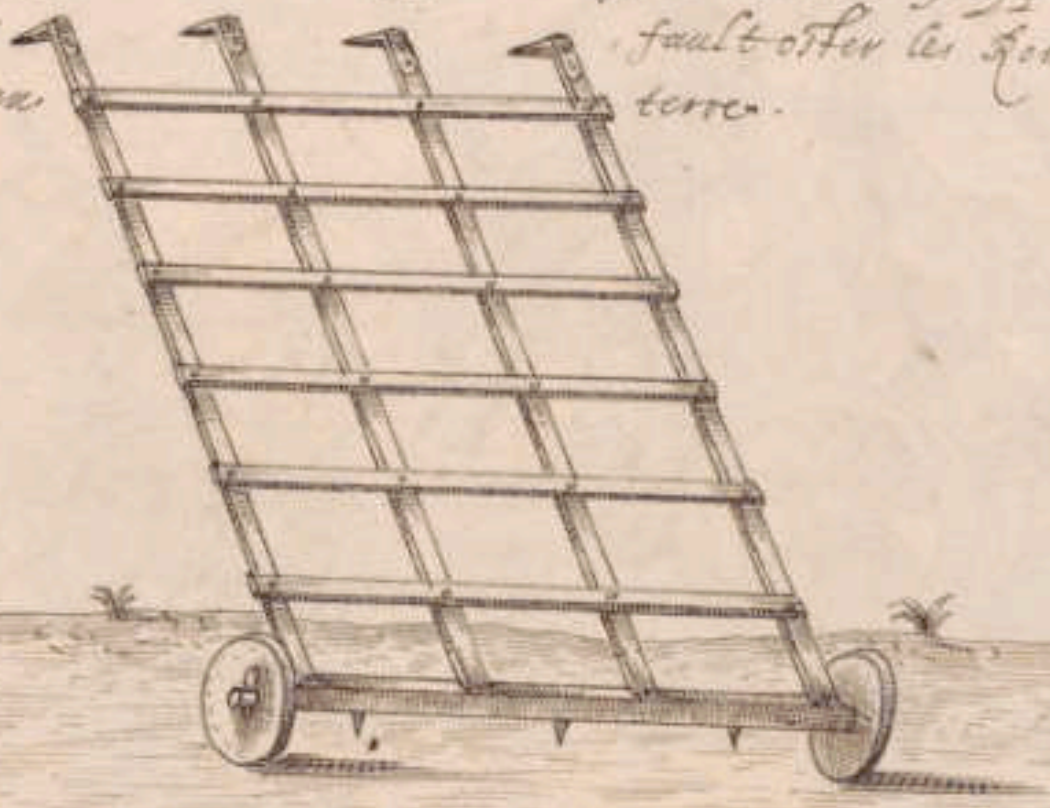
Pour enfondrer une Porte en Muraille

7

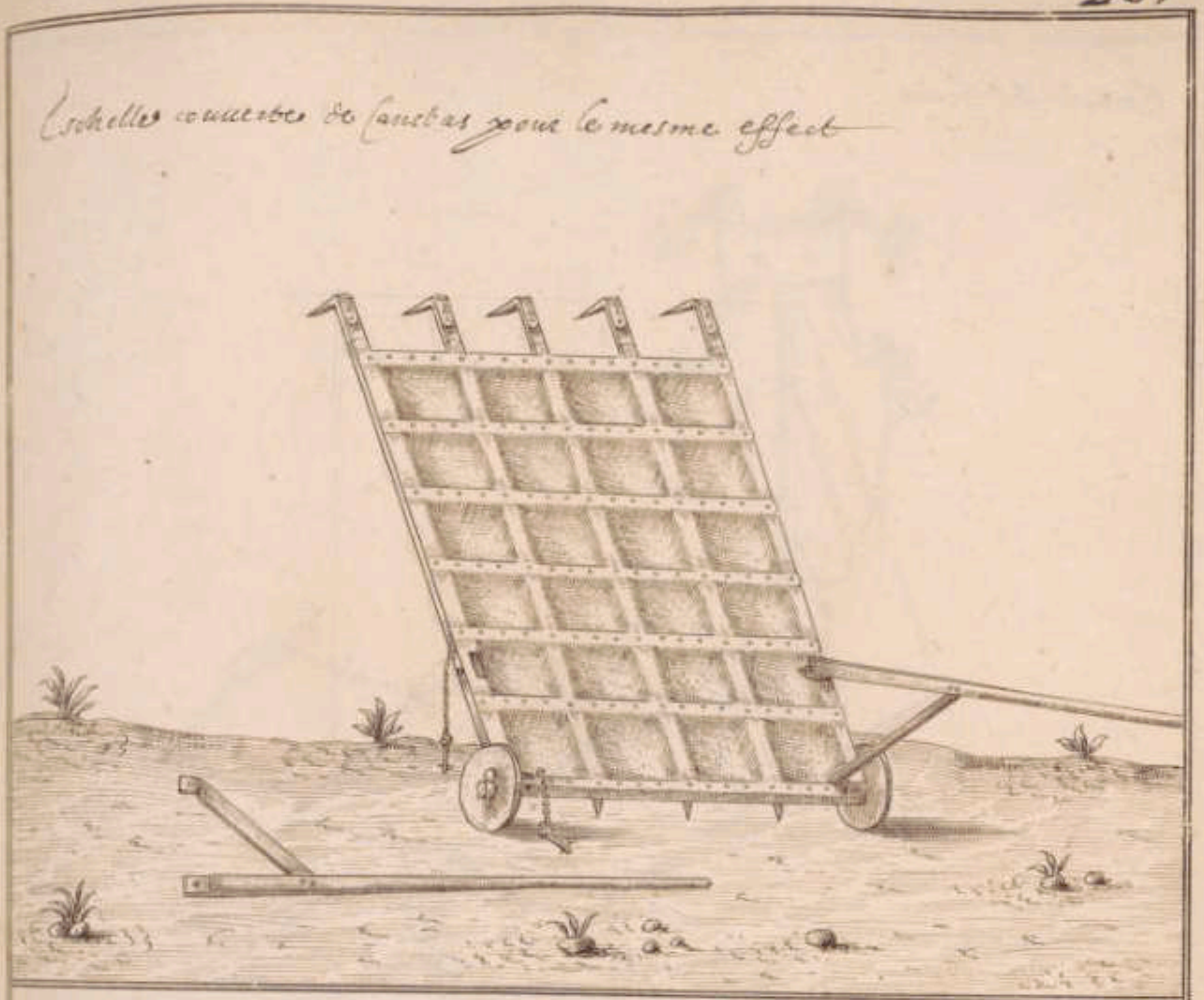
Echelle de bois sur quoy peuvent passer quatre hommes de front propre pour assaillir vng Retranchement



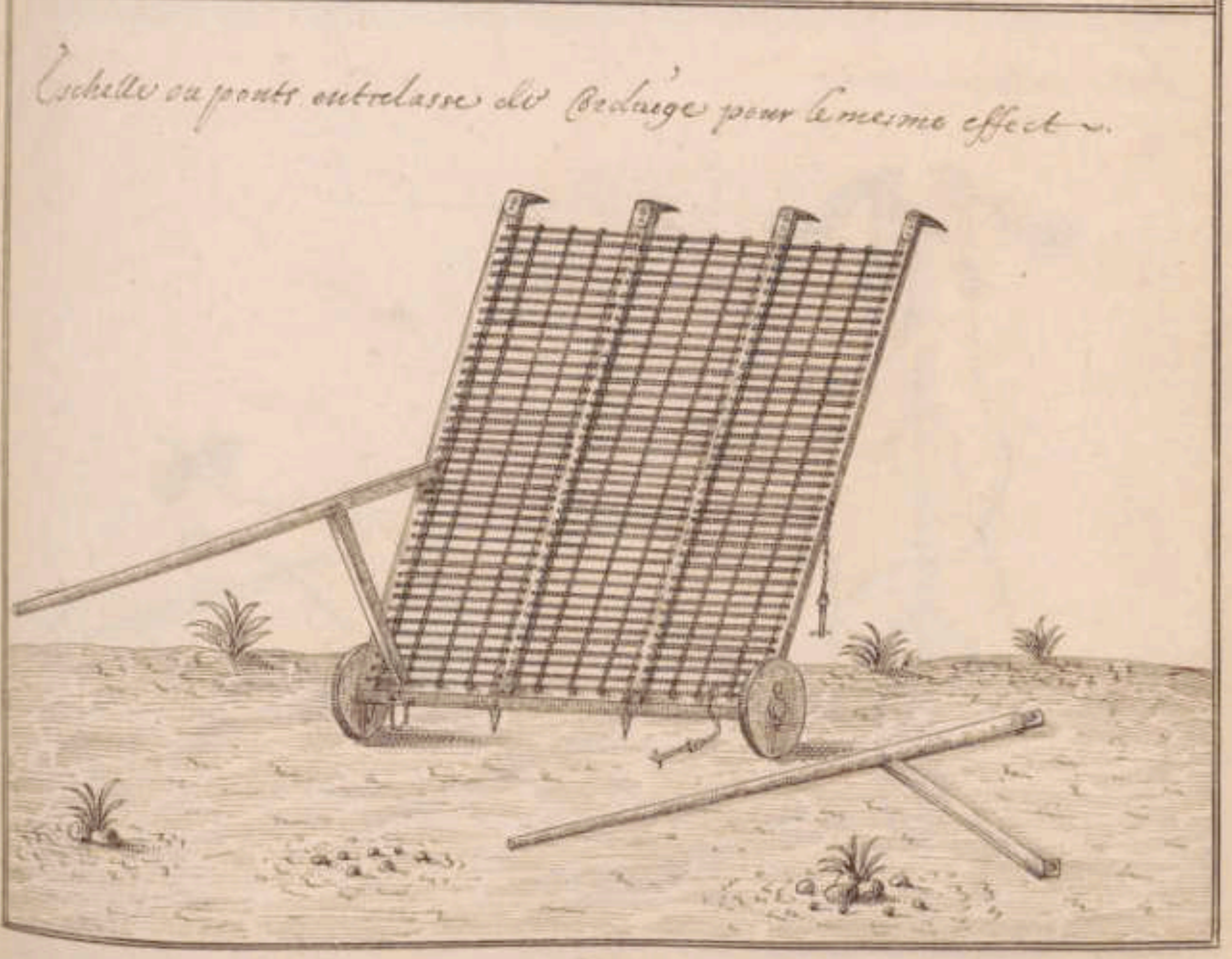
Autre Echelle pour le mesme effect, apres l'auoir agrappe sur le Retranchement faut oster les Roulleaux et les laisser tombes en terre.



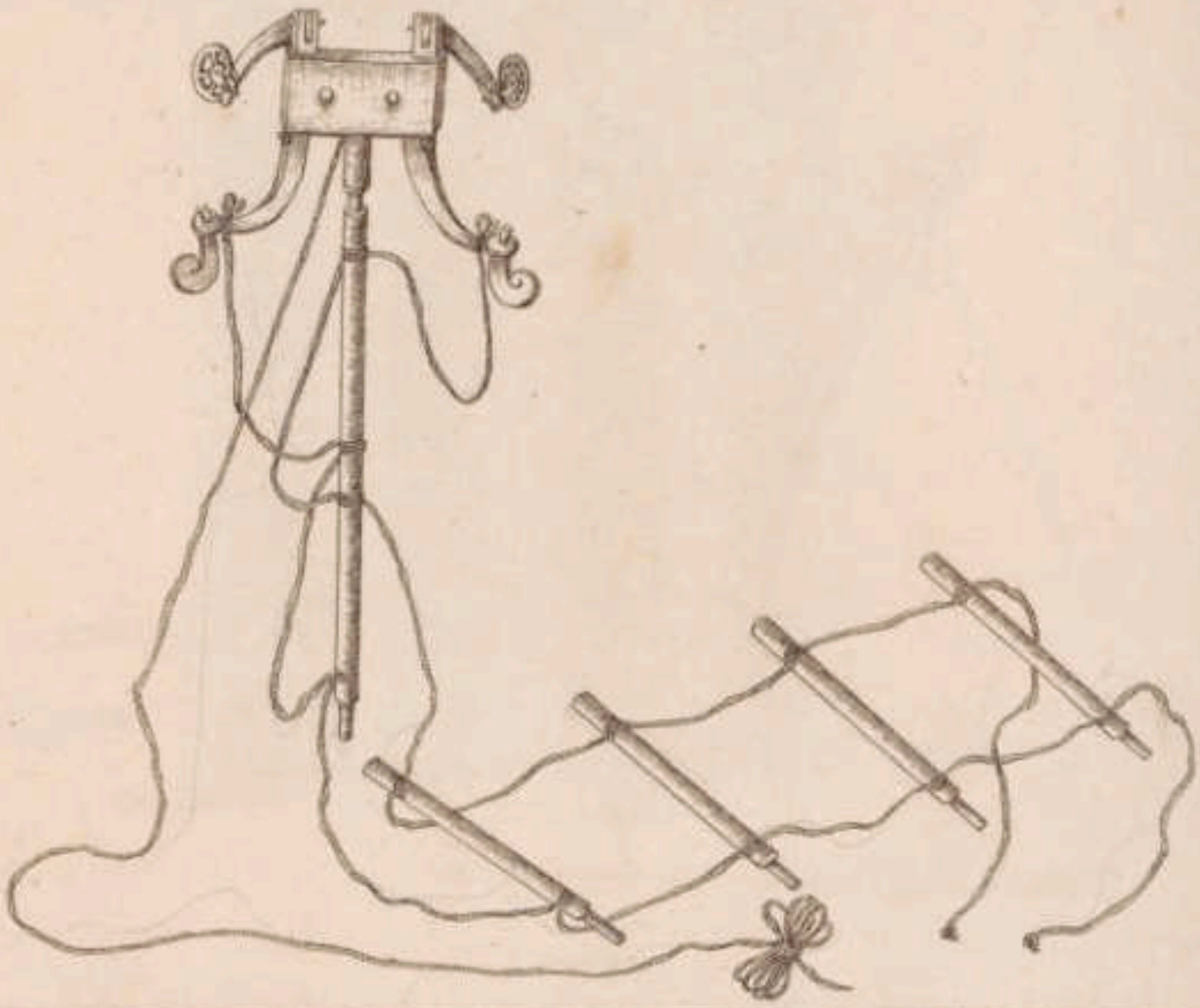
Echelles couvertes de Canebas pour le mesme effect



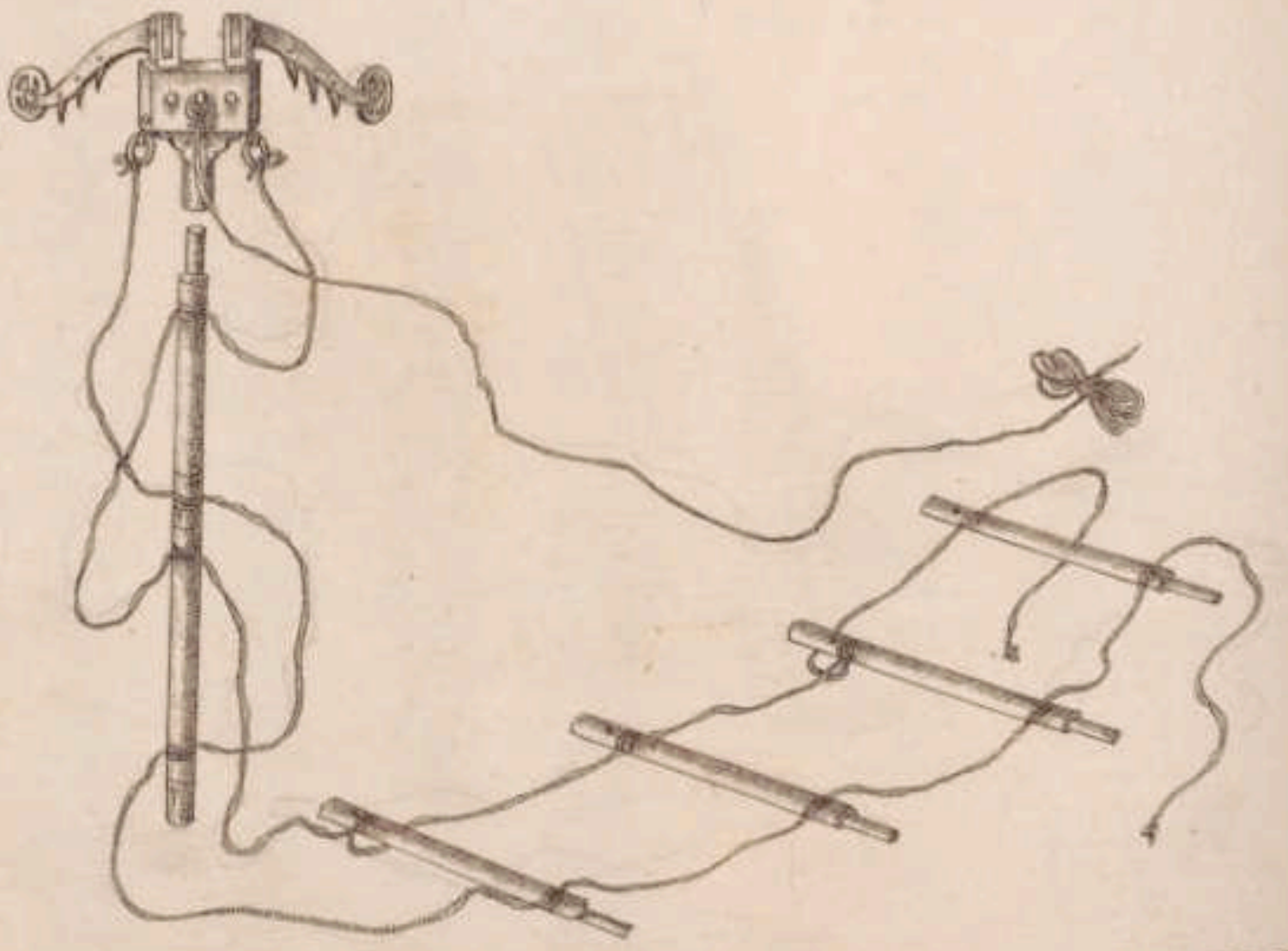
Echelle ou ponts entrelasse du Bedauge pour le mesme effect.



Escalle de Cordes

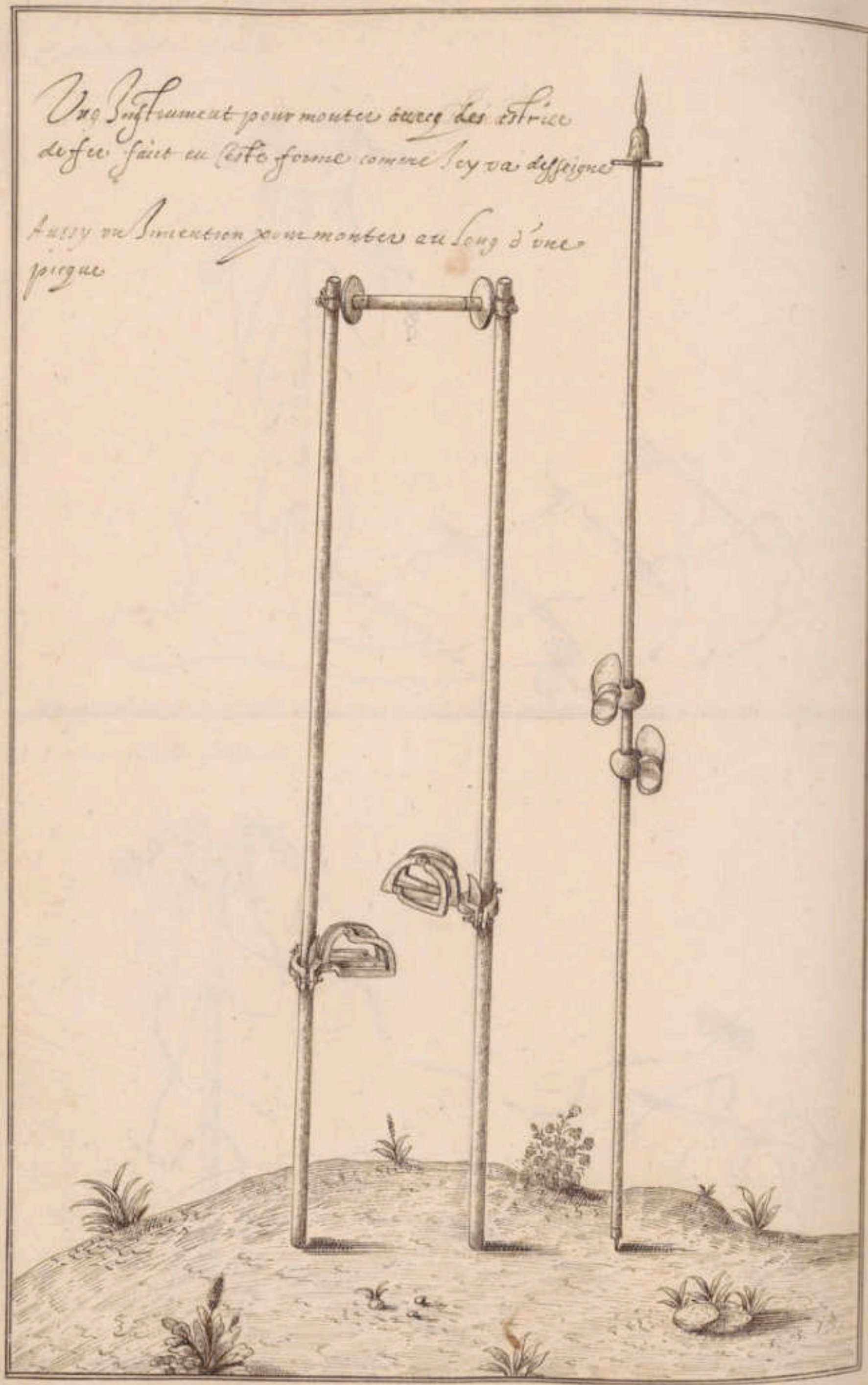


Autre escalle de Cordes

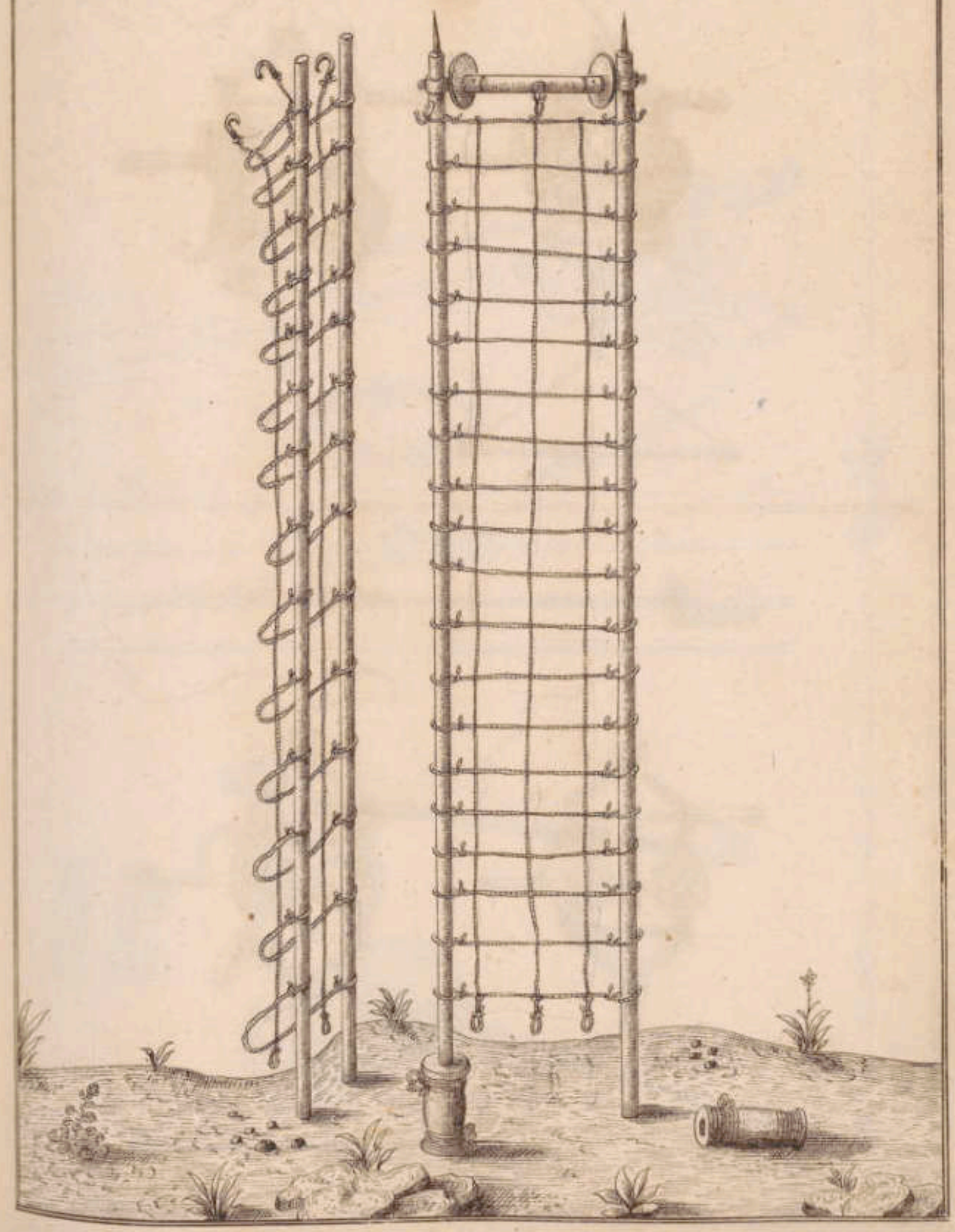


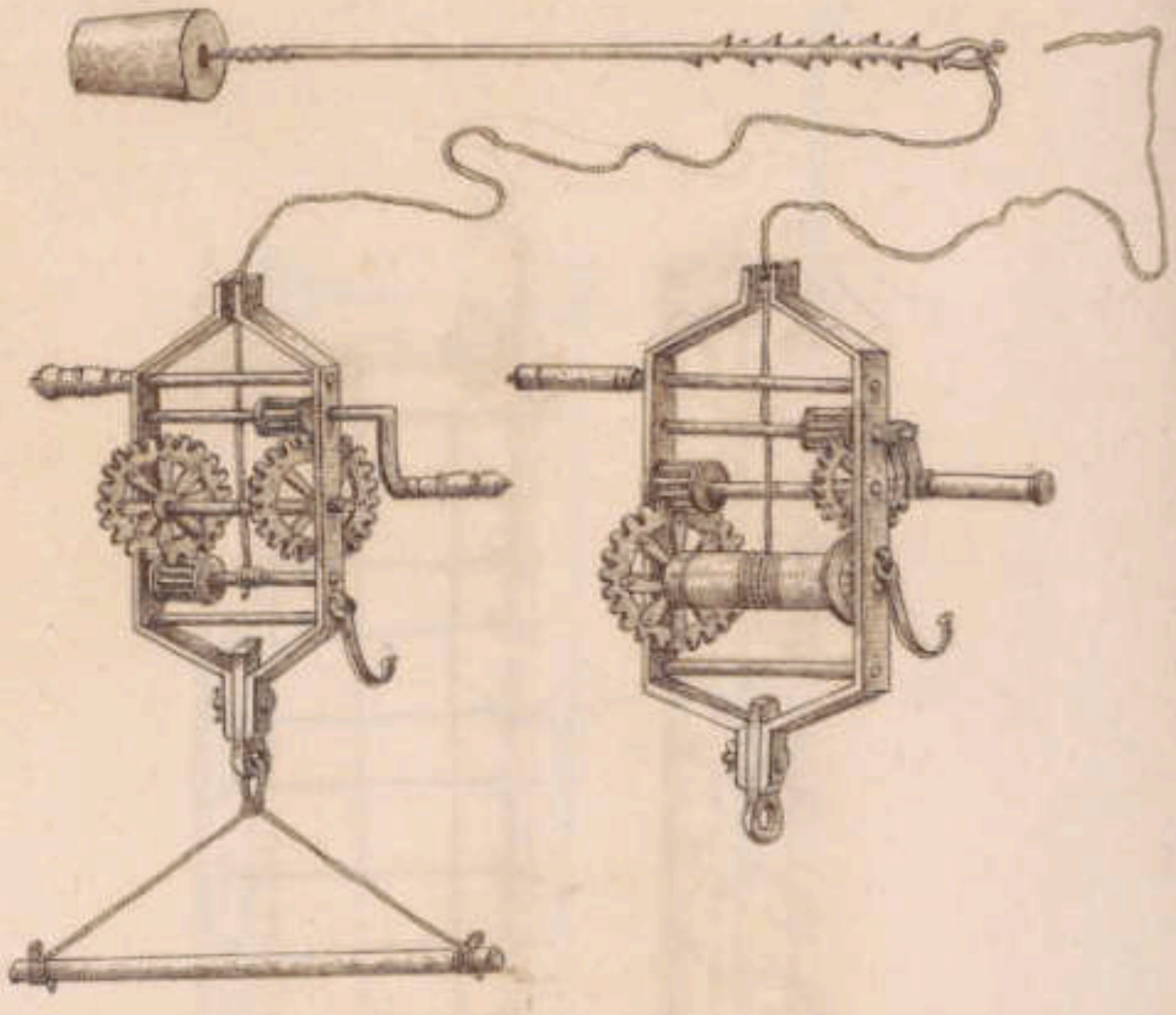
Un Instrument pour monter avec des estrieu de fer fait en cette forme comme icy va dessigné

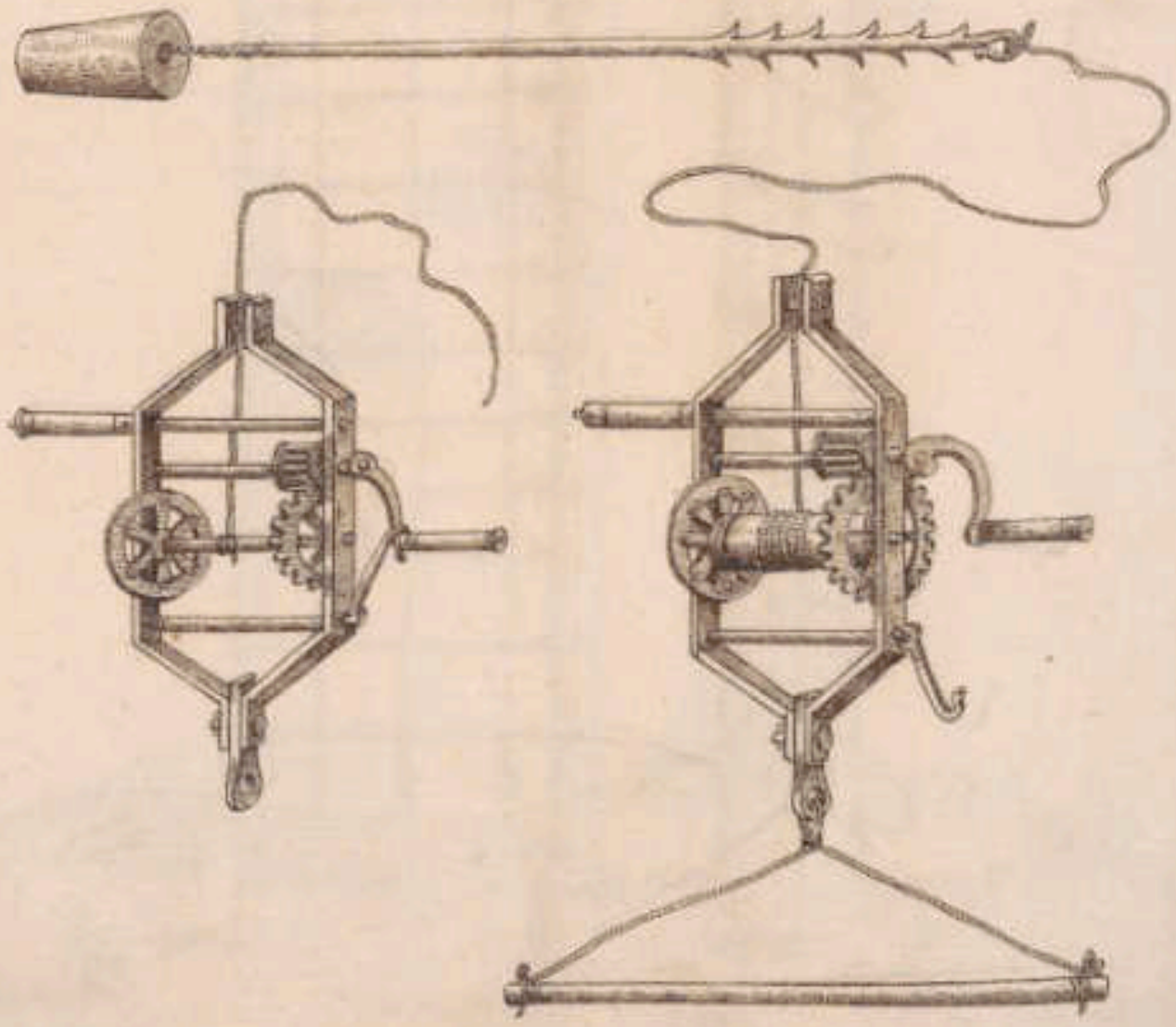
Aussy un Invention pour monter au long d'une pique

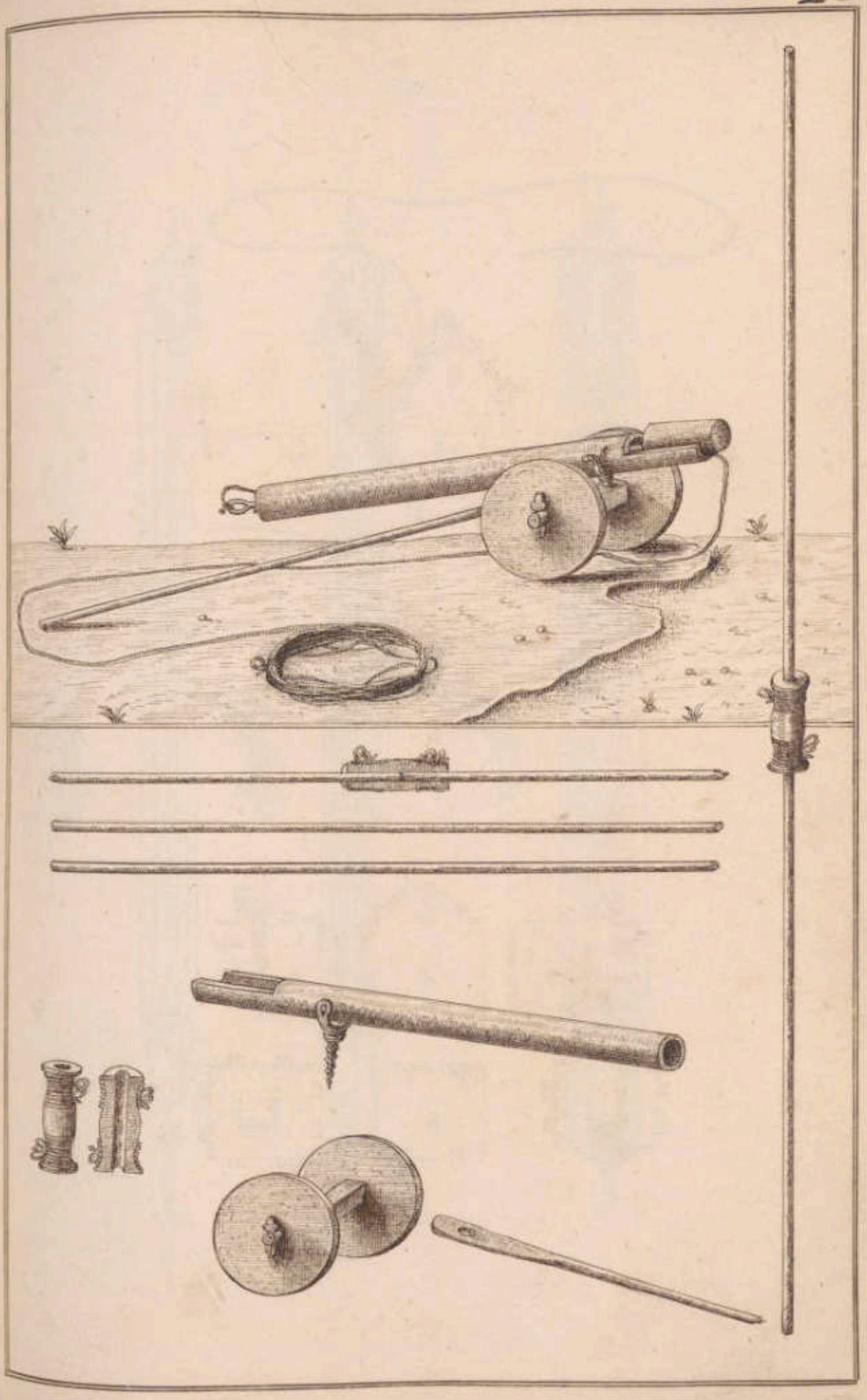


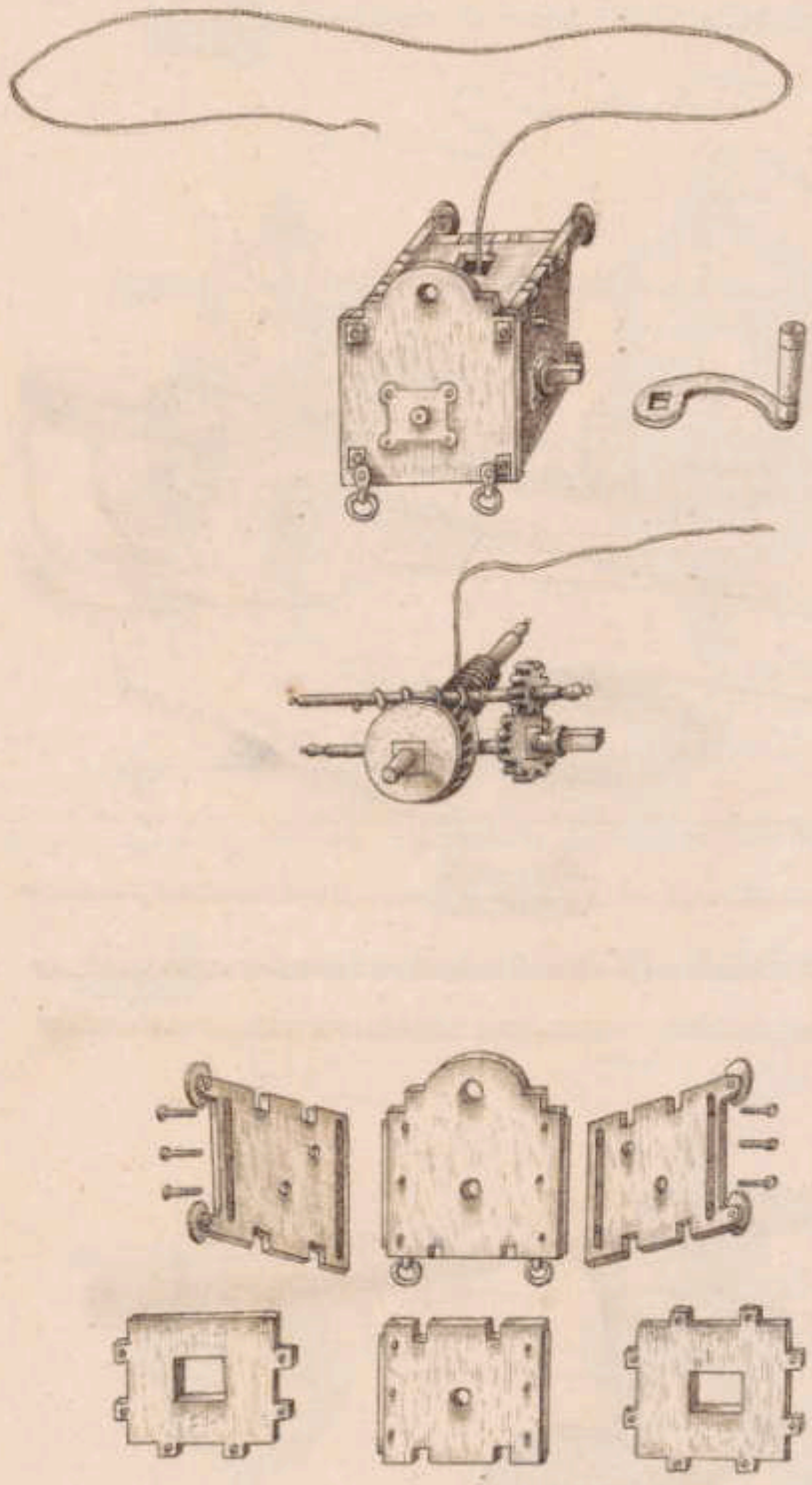
Un Instrument pour s'en Seruir d'eschelles et des pont.

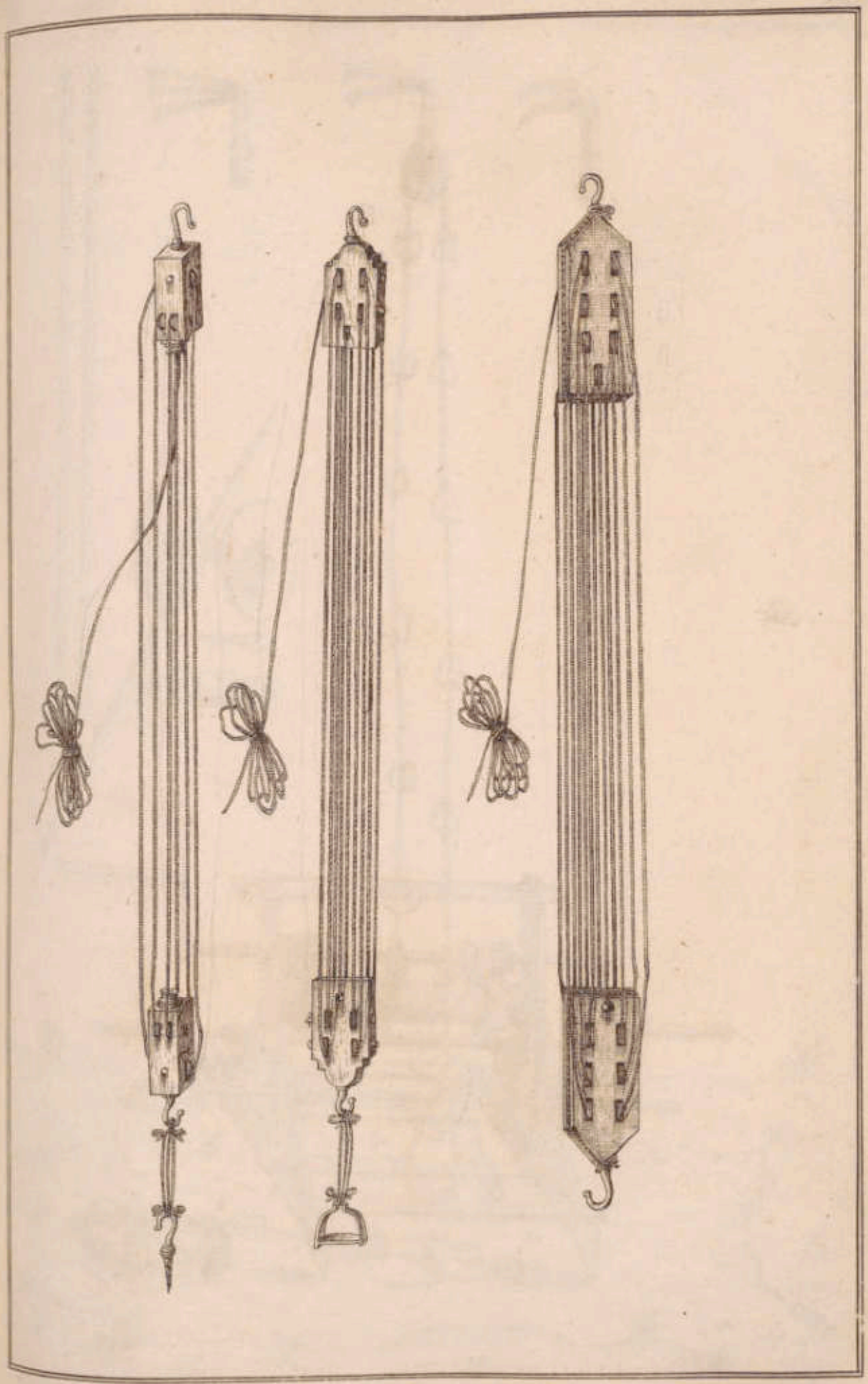


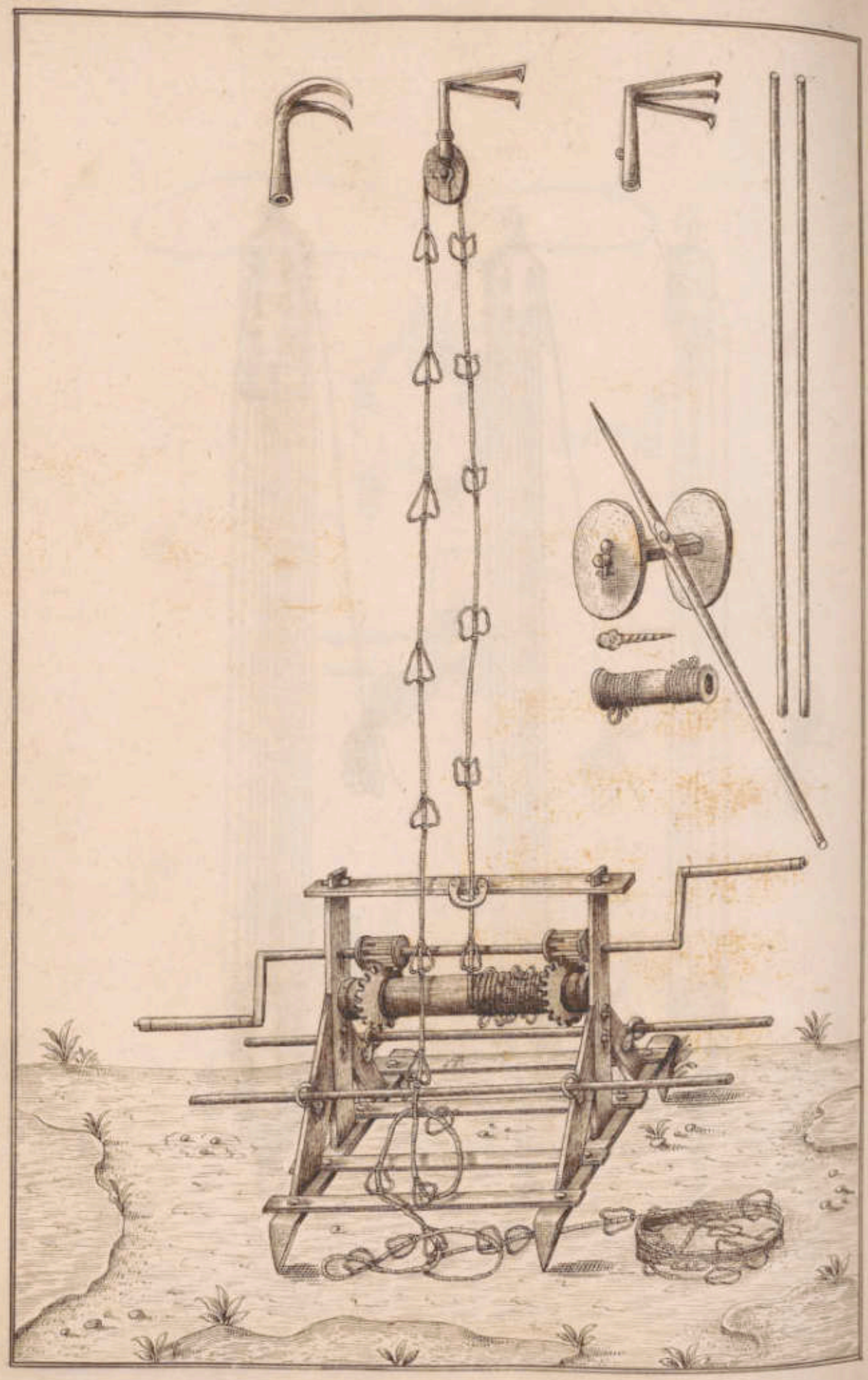


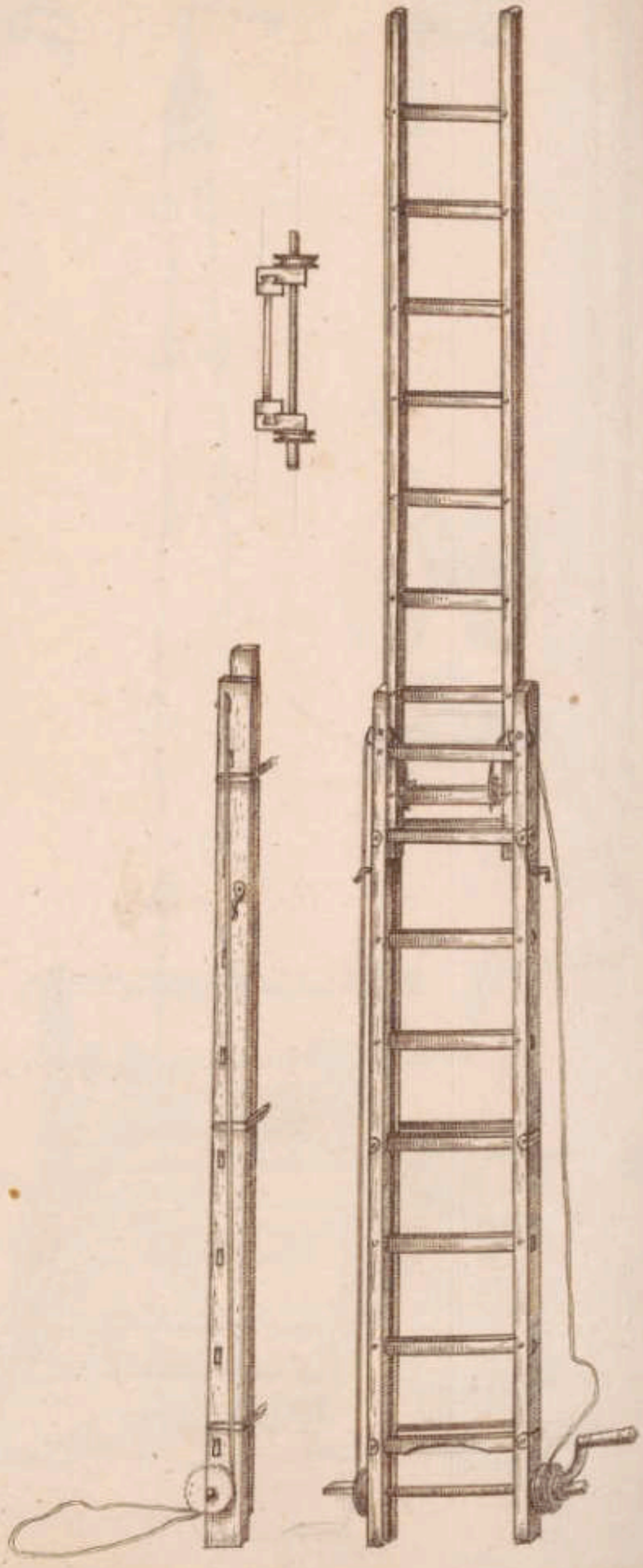


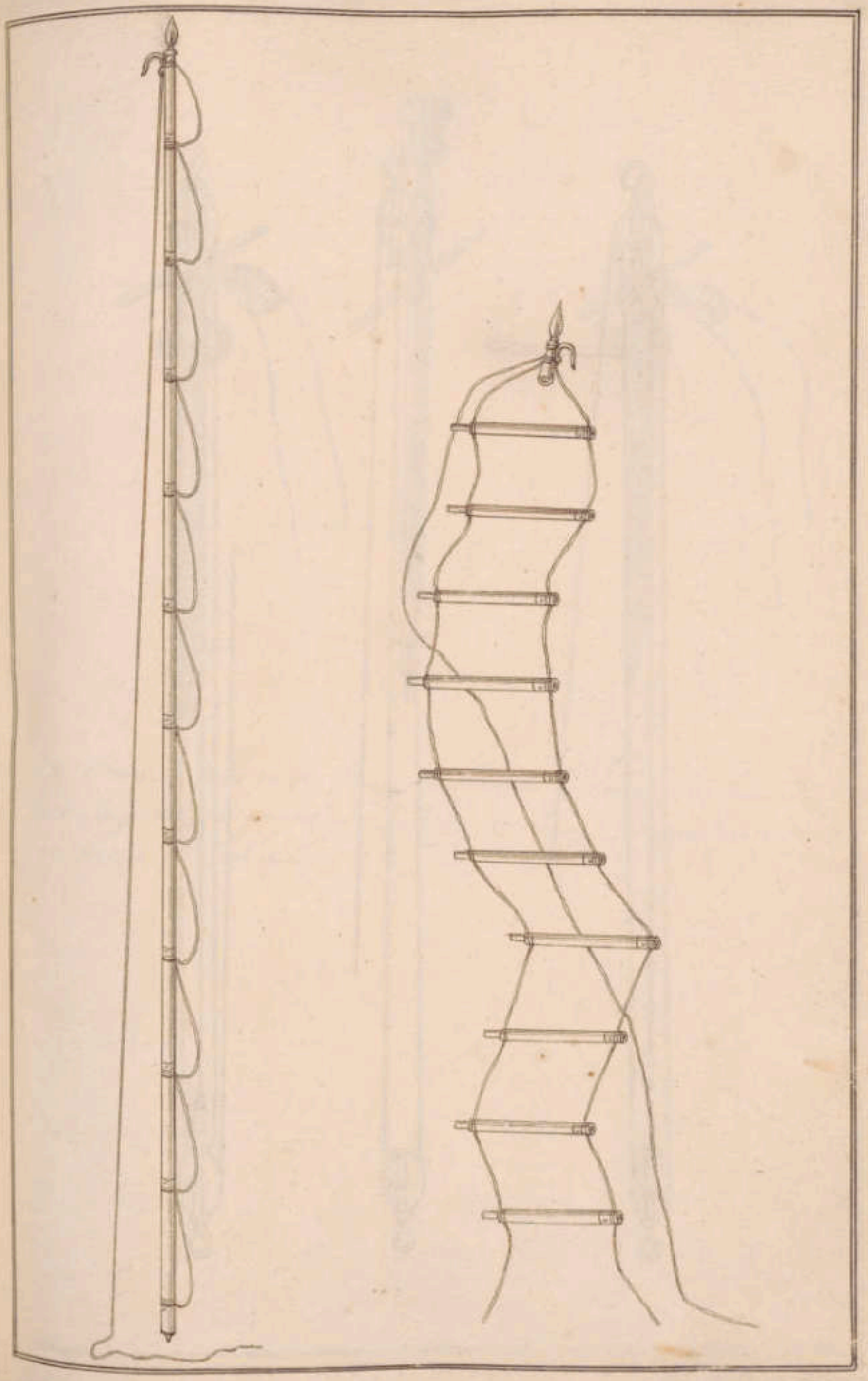


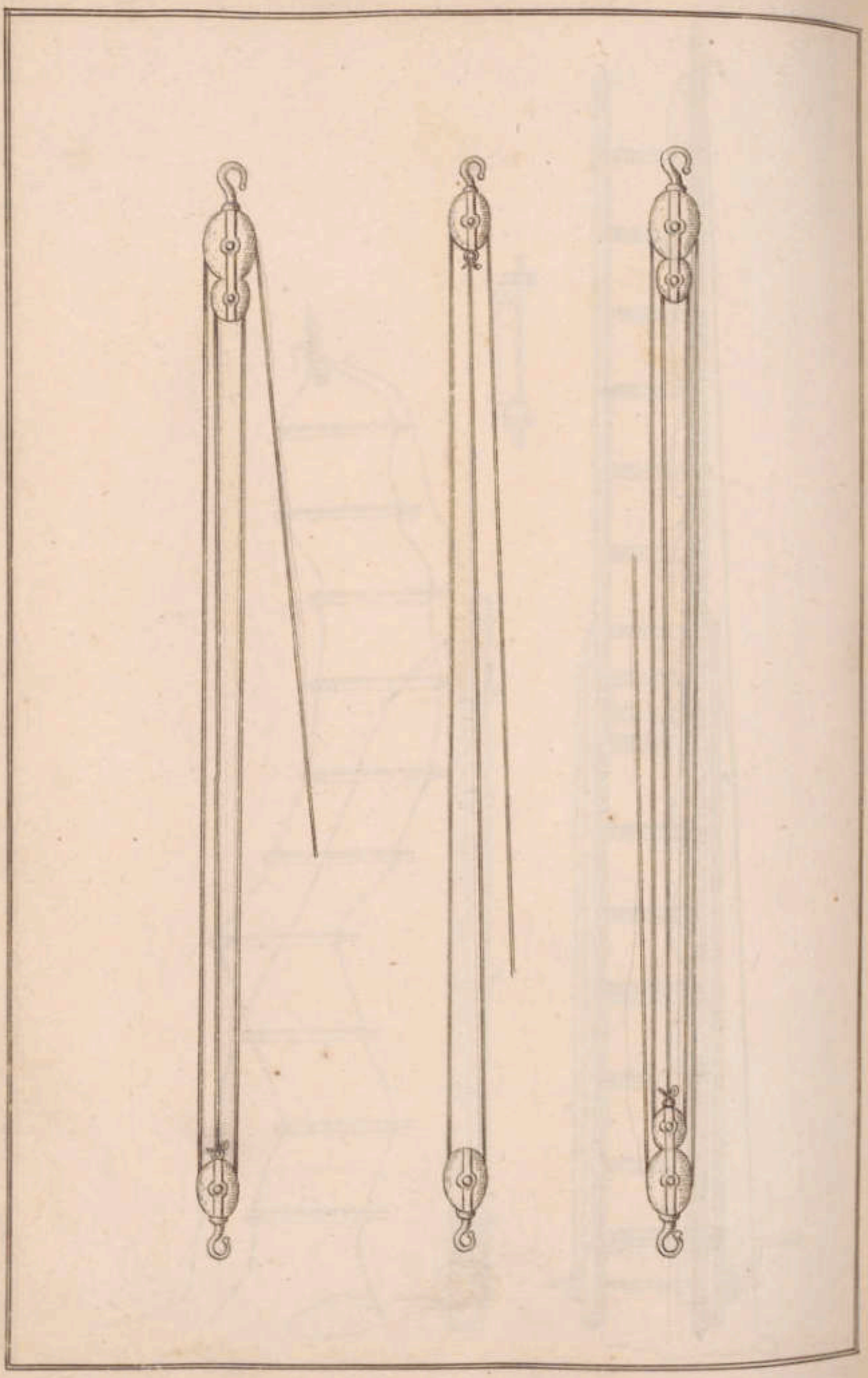


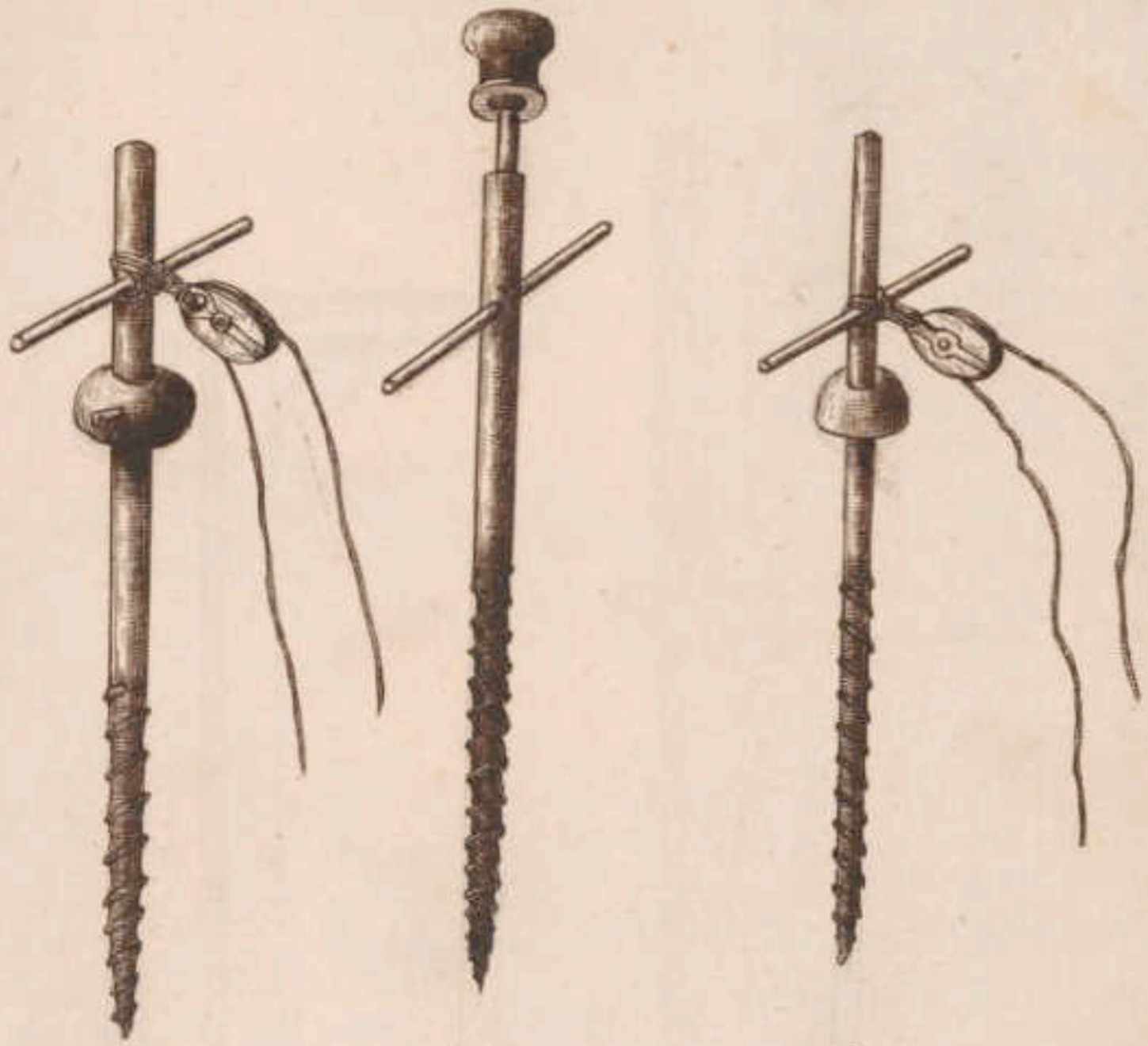




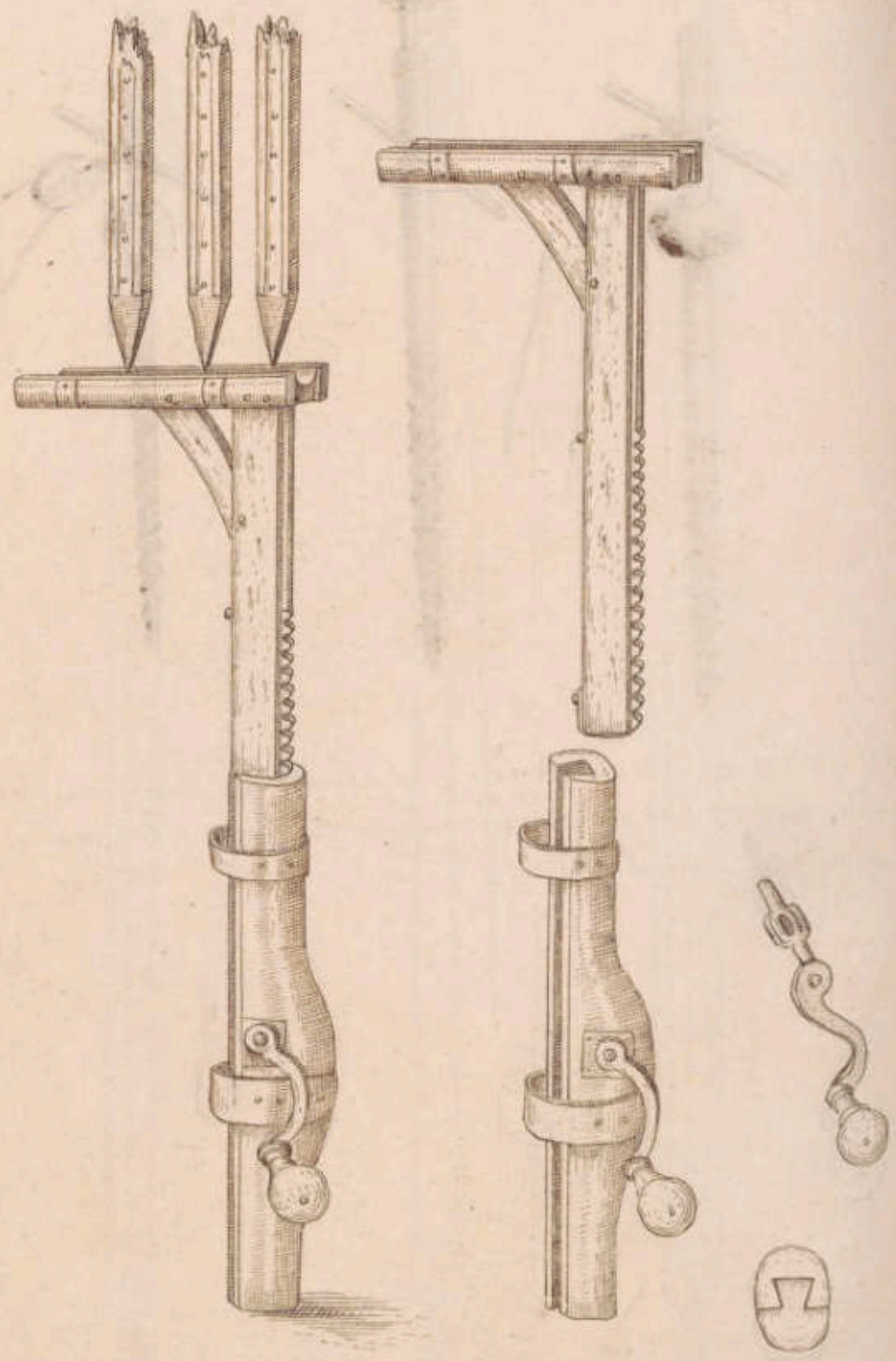




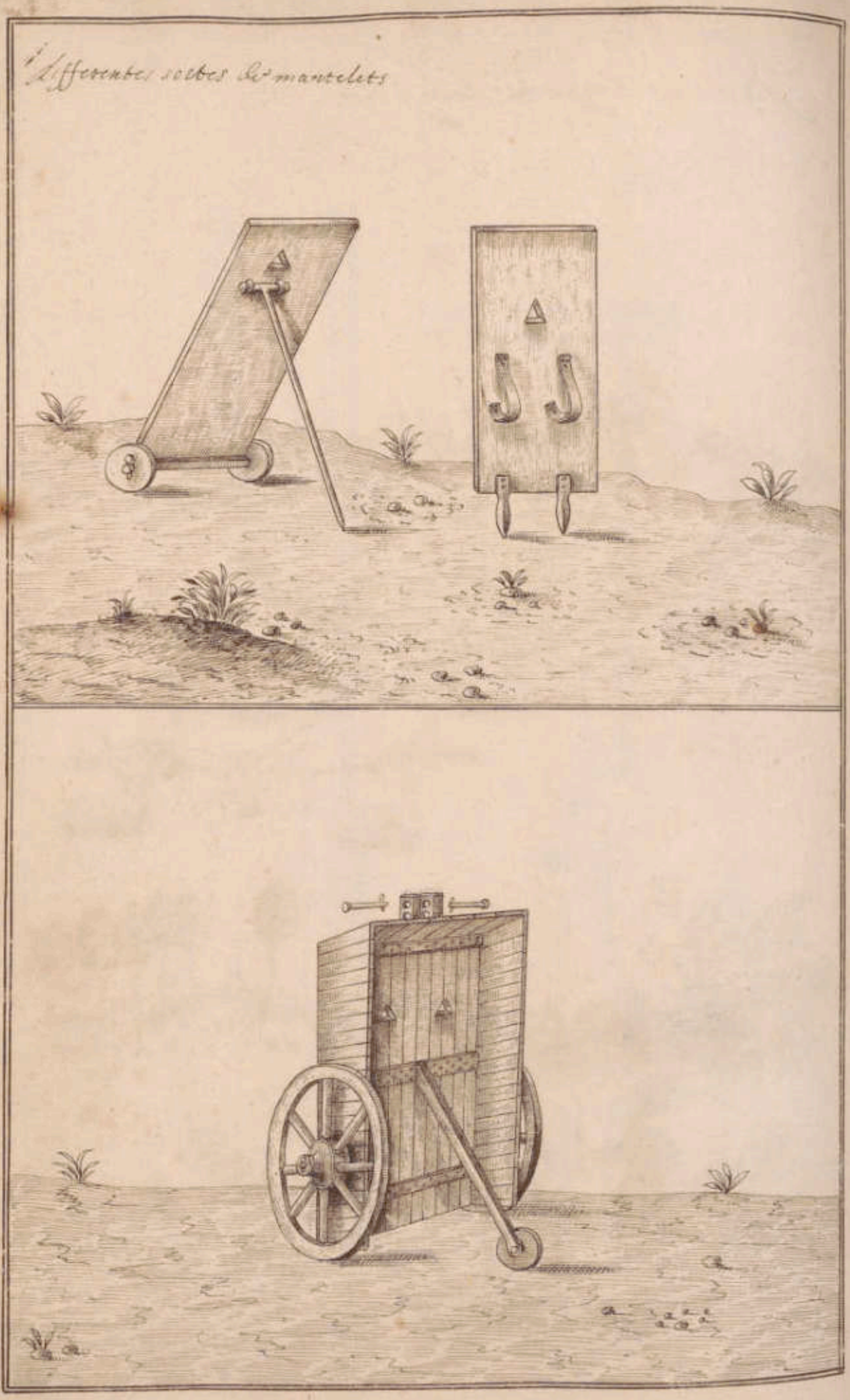


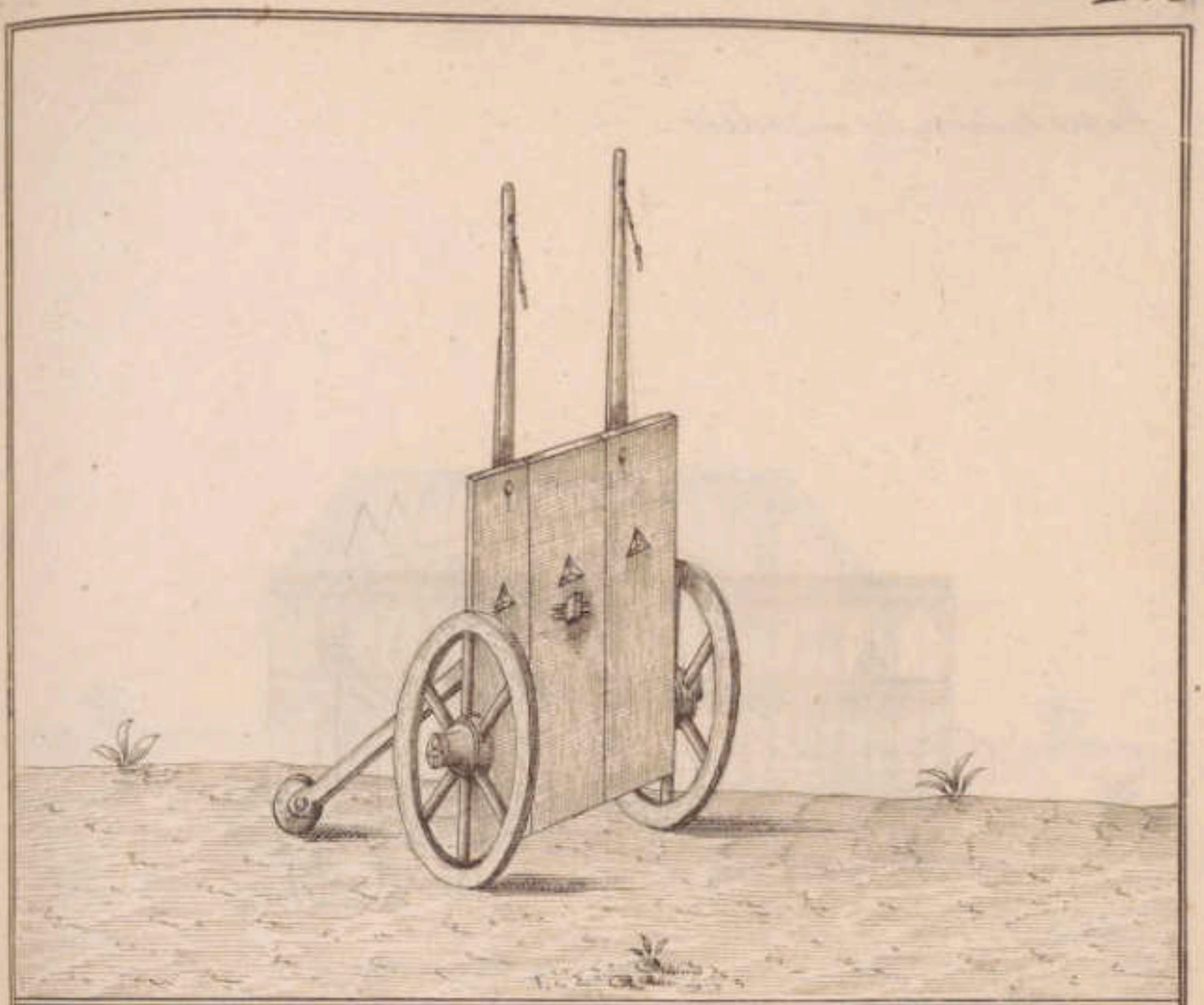


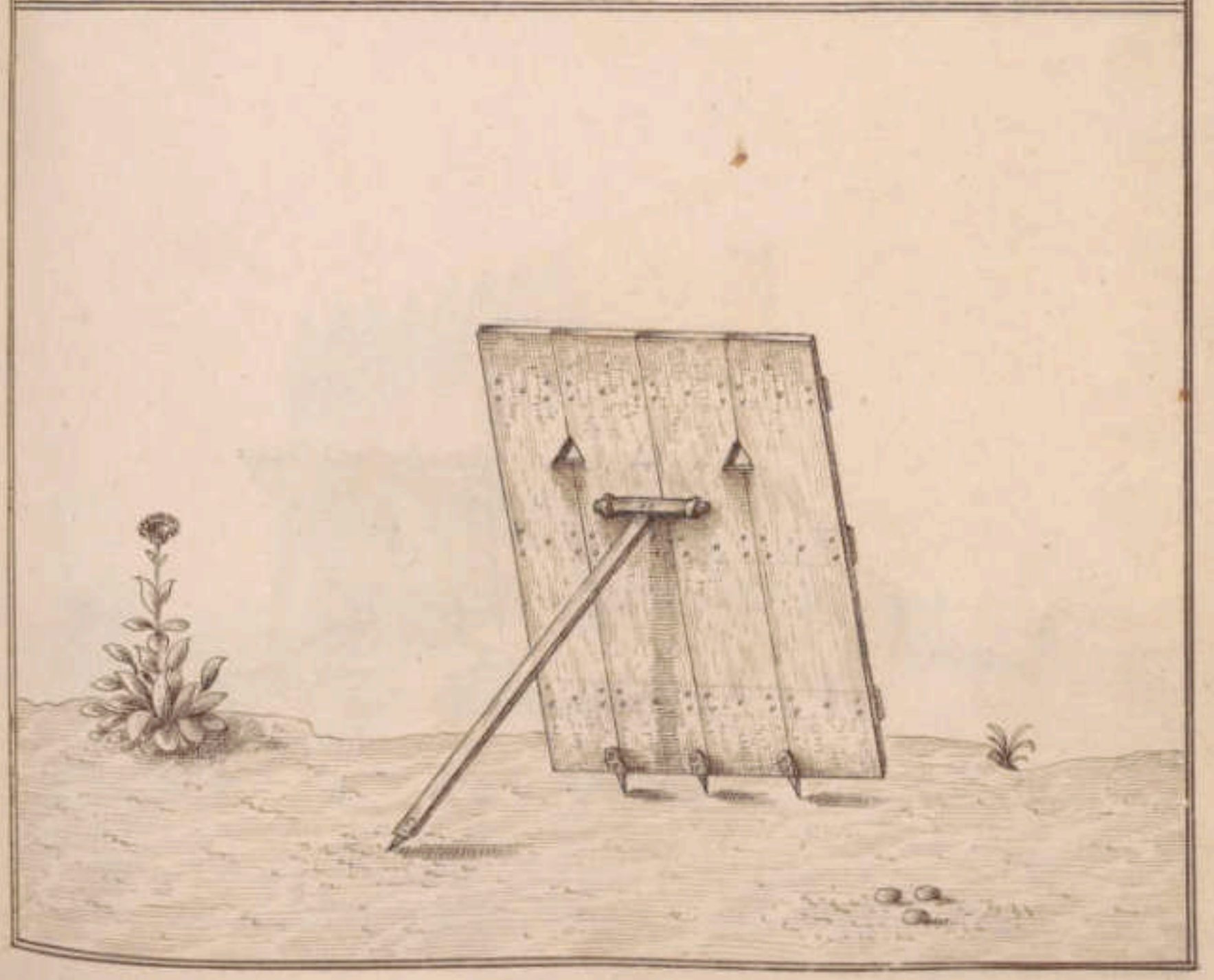
des verrans de Bois ou de fer pour planter en Terre sans faire du Bruit, lesquelles sont propres pour beaucoup de choses, Principalement pour dresser des eschelles



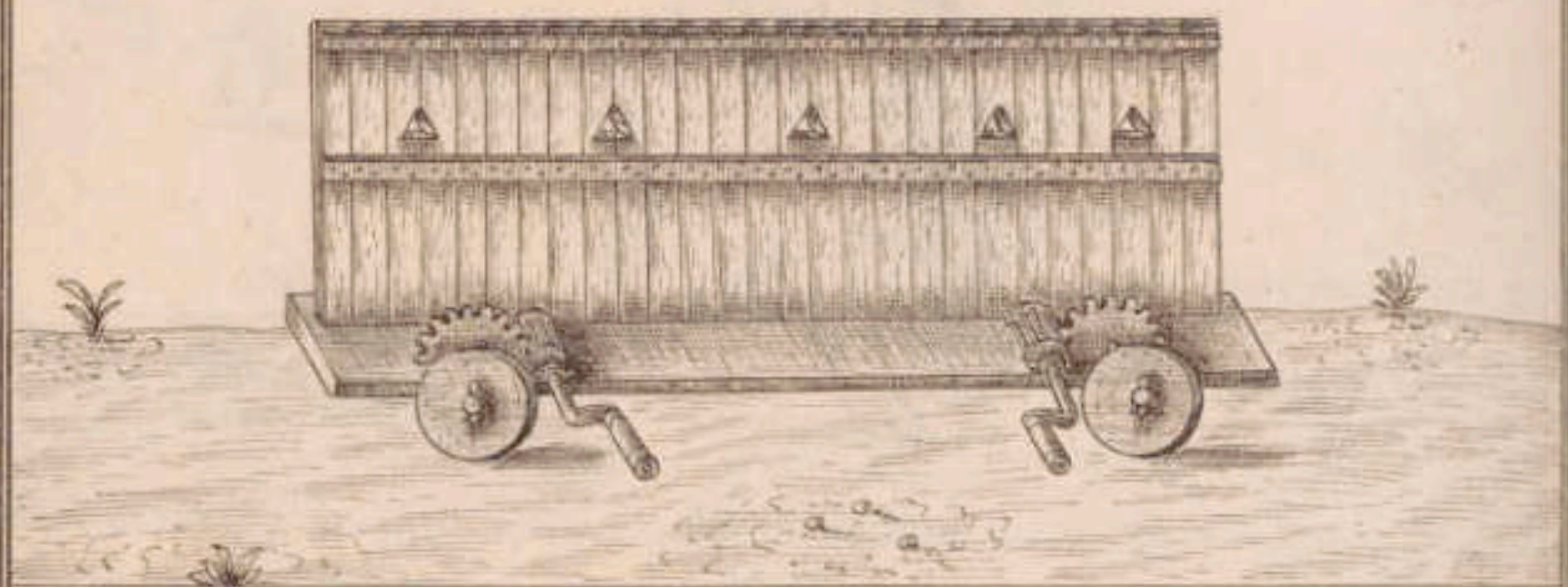
Differentes sortes de mantelets

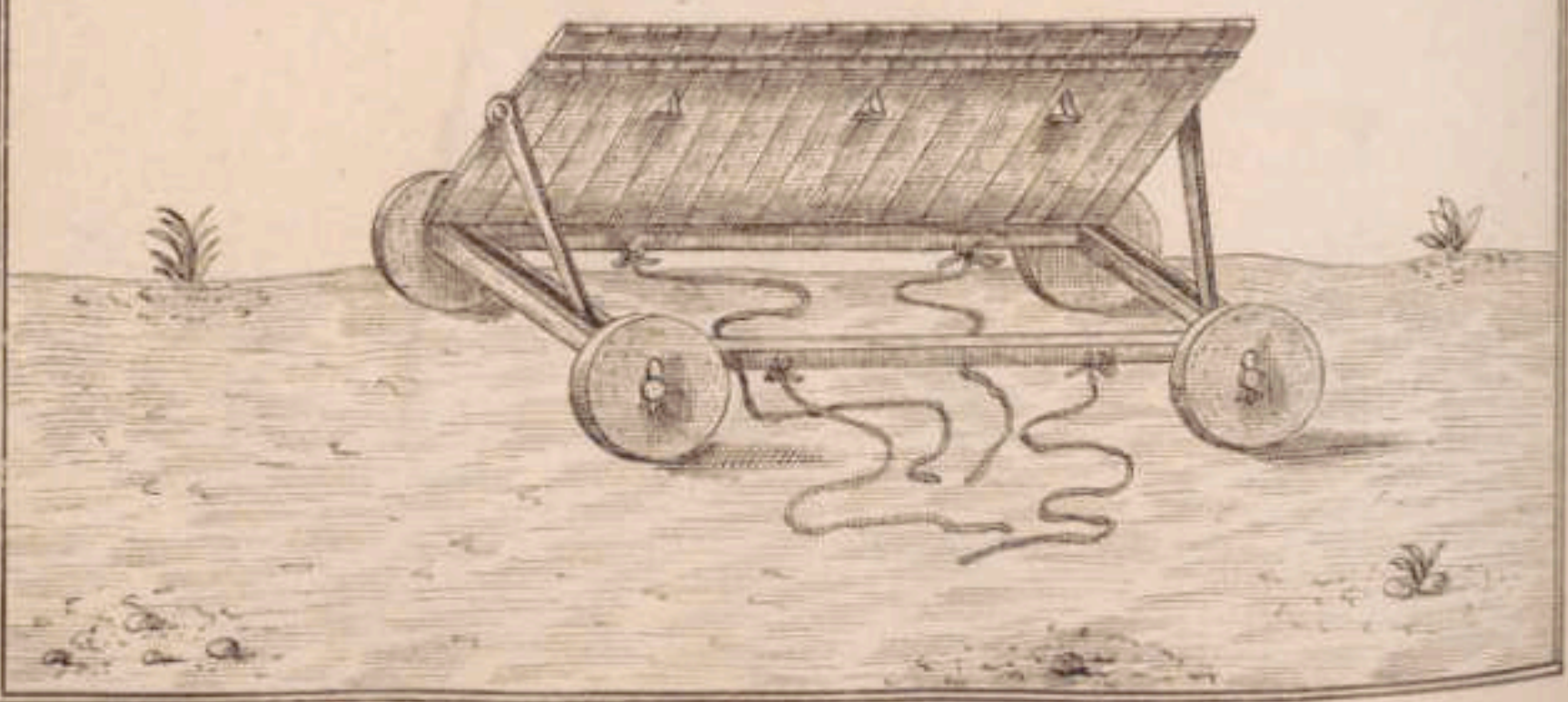


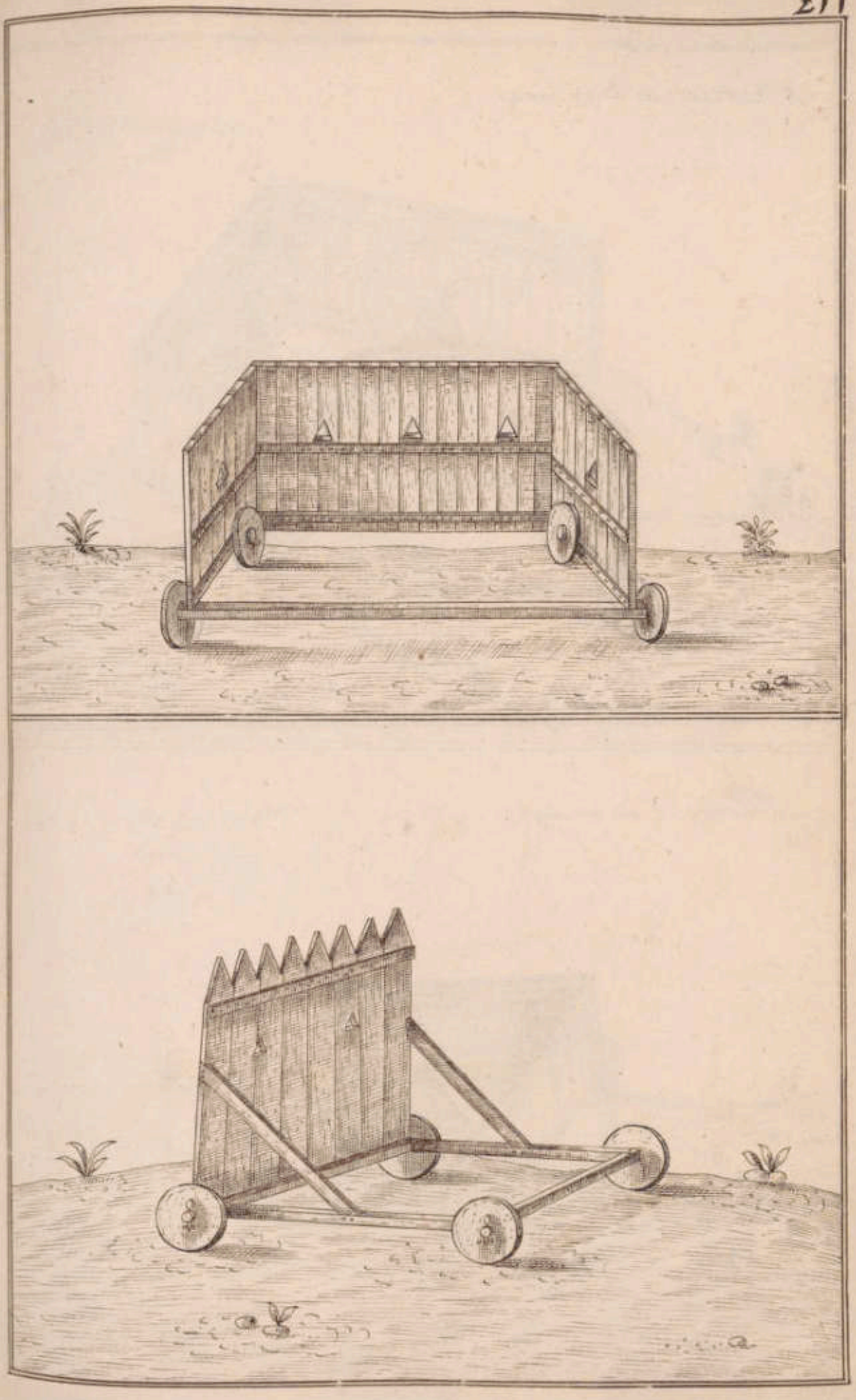




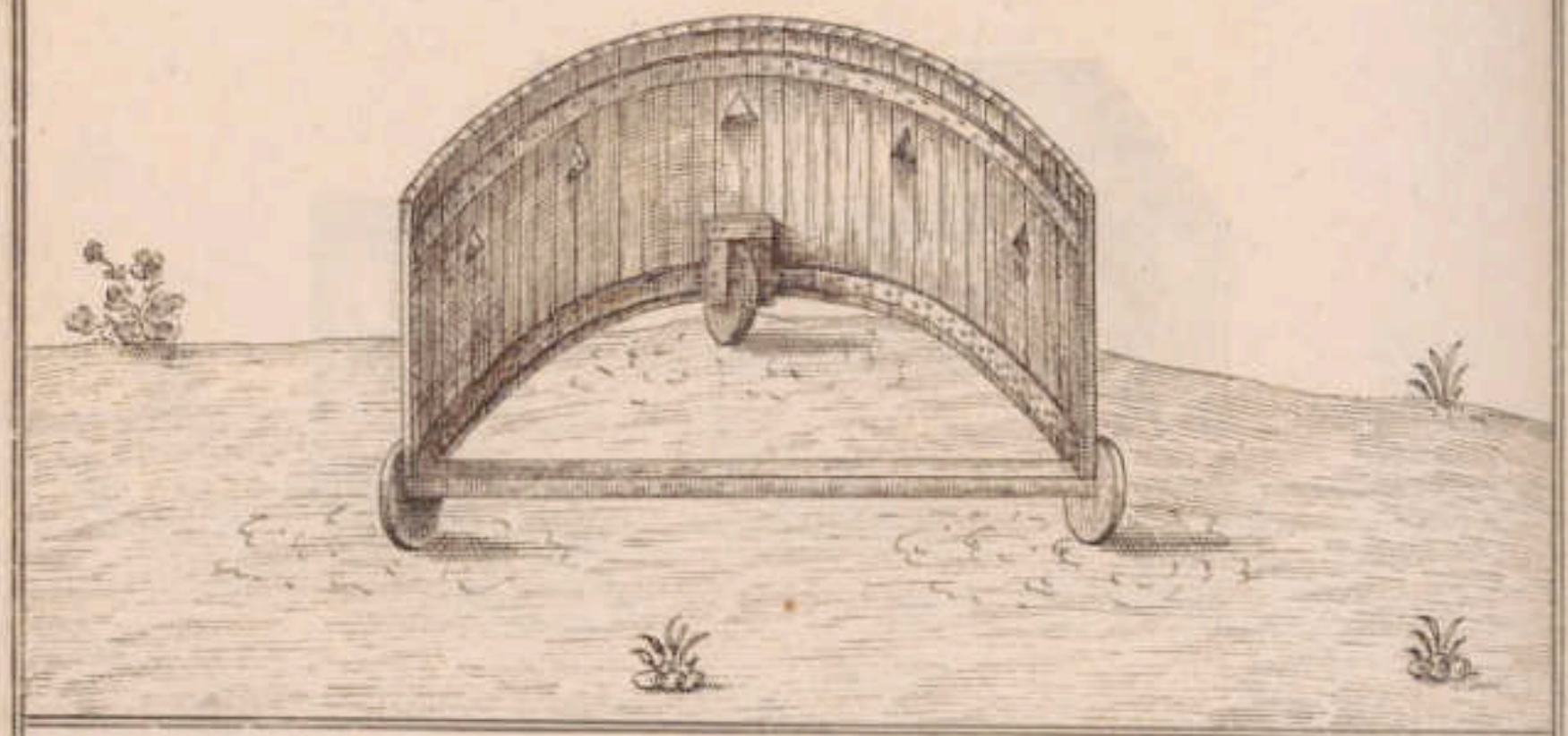
Autro manere de mantelets



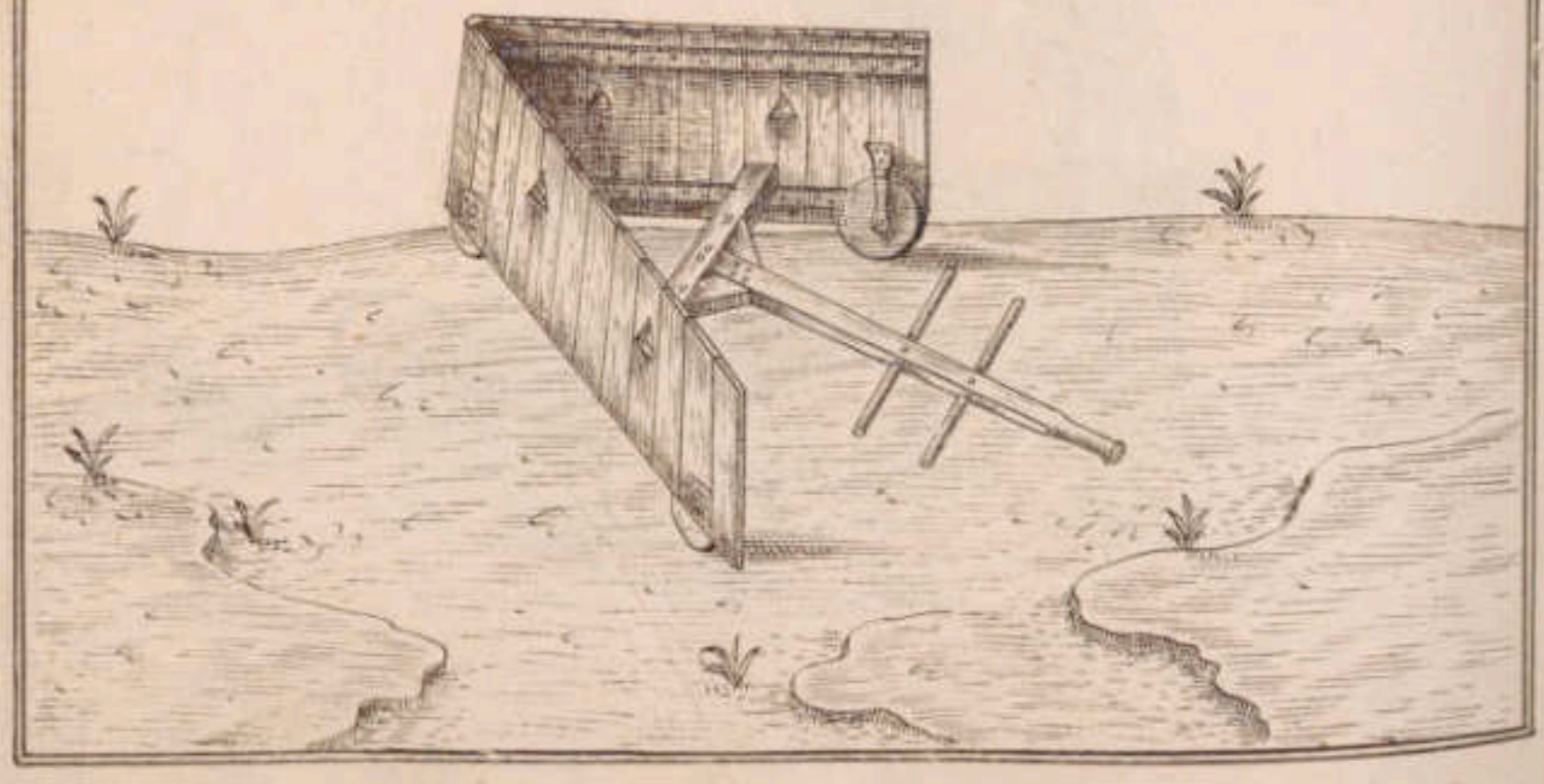




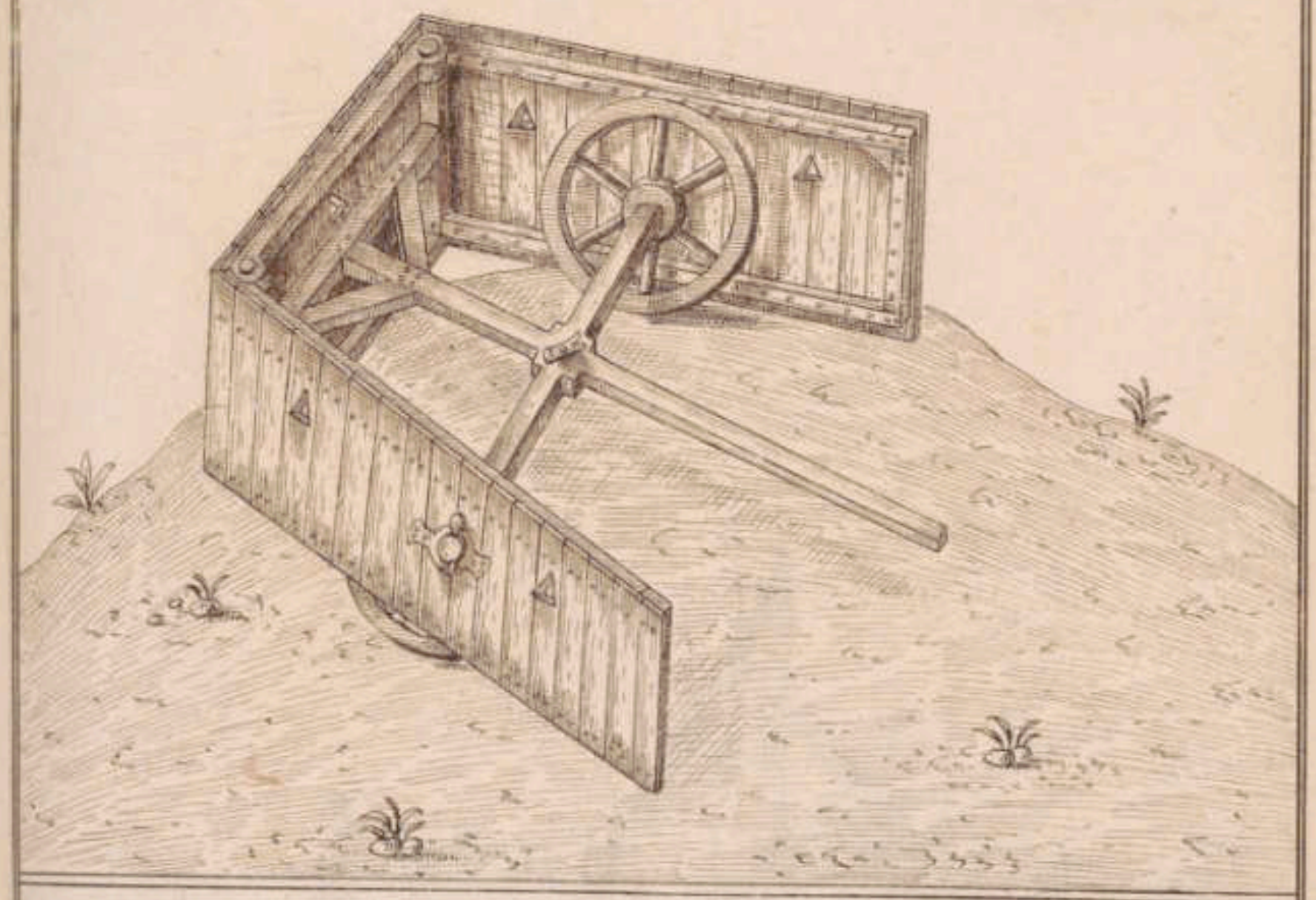
Mantelet en demy lune



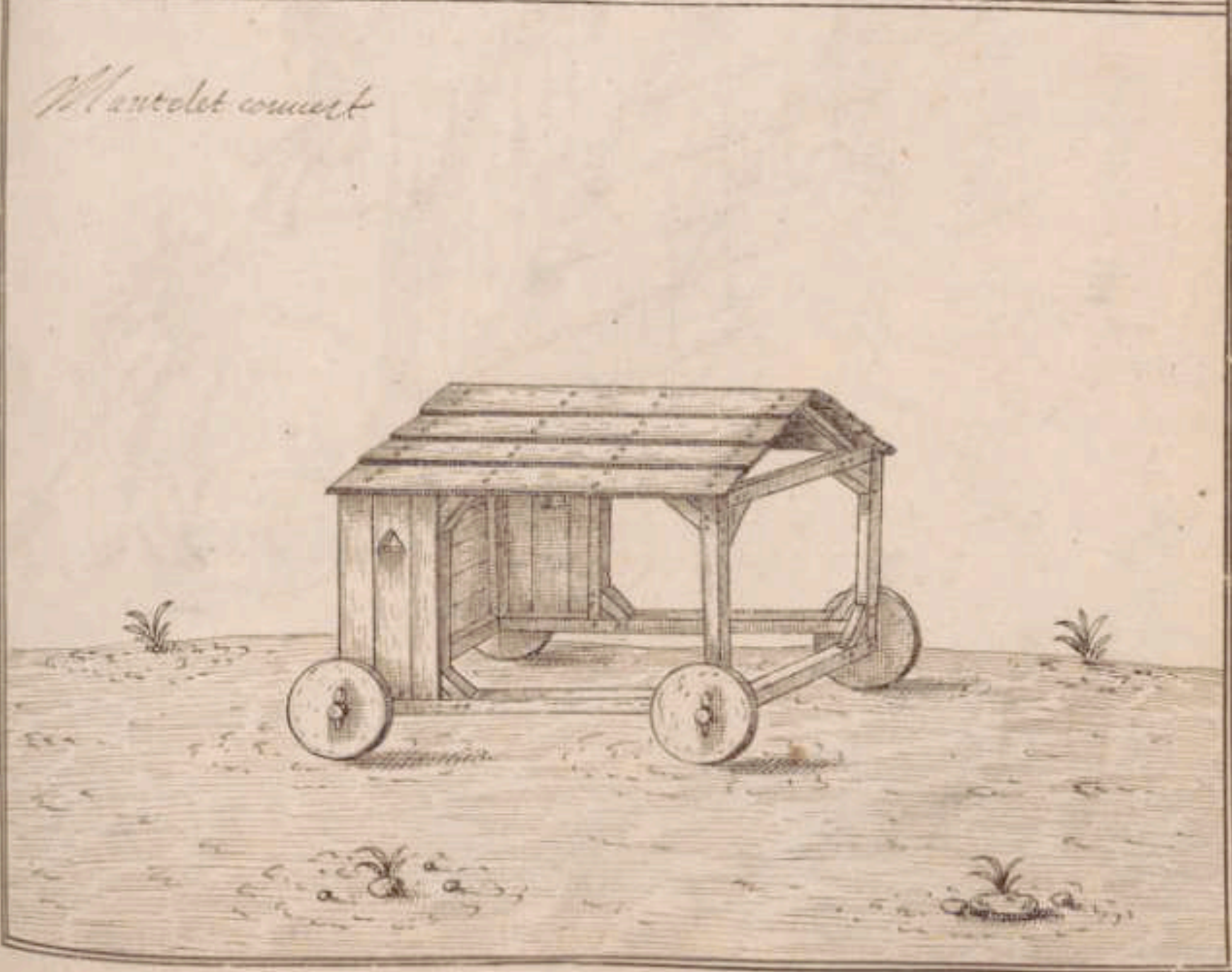
Mantelet en triangle



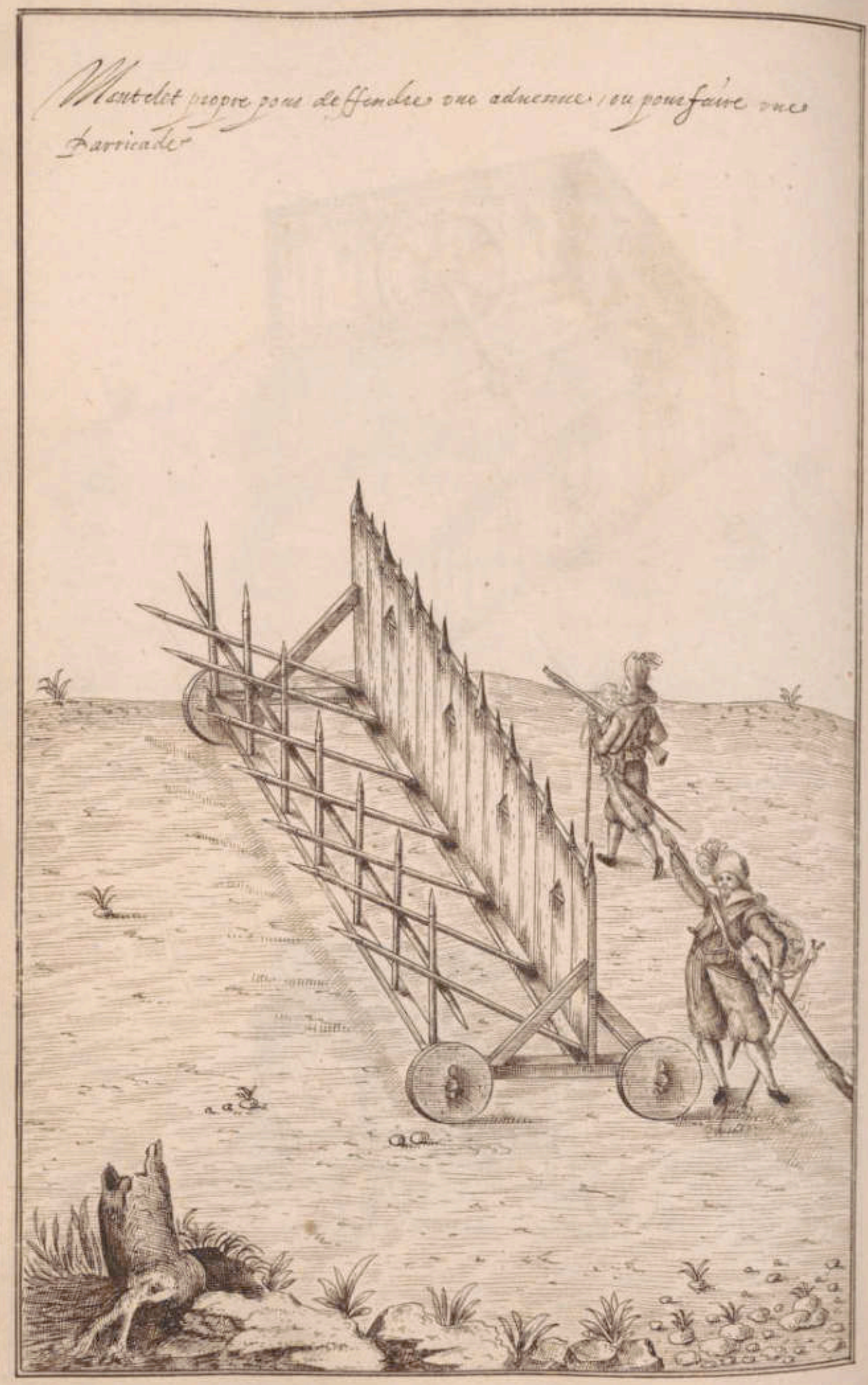
Mantelet quarro.



Mantelet comun.



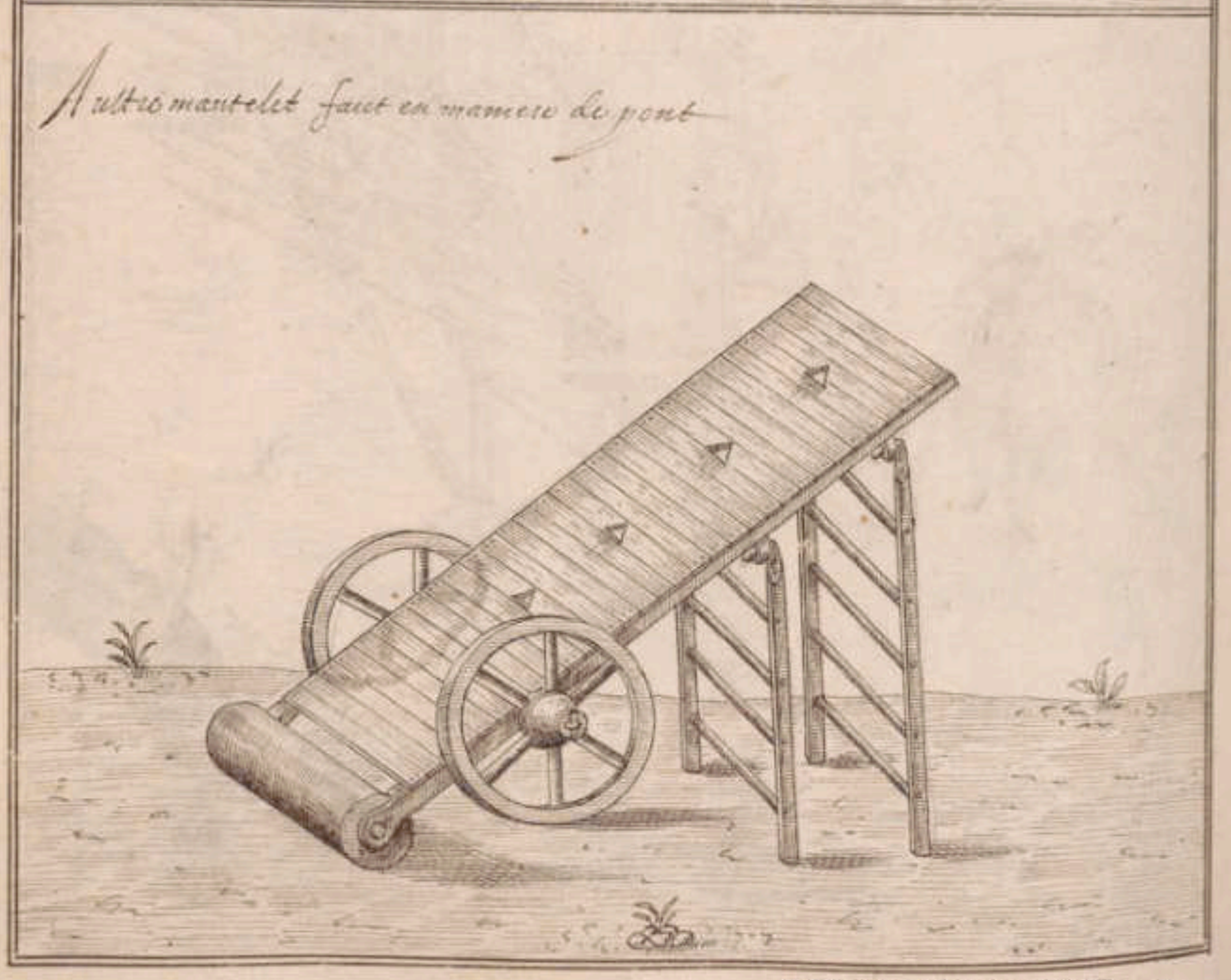
Mantelet propre pour deffendre une aduenue, ou pour faire une barricade



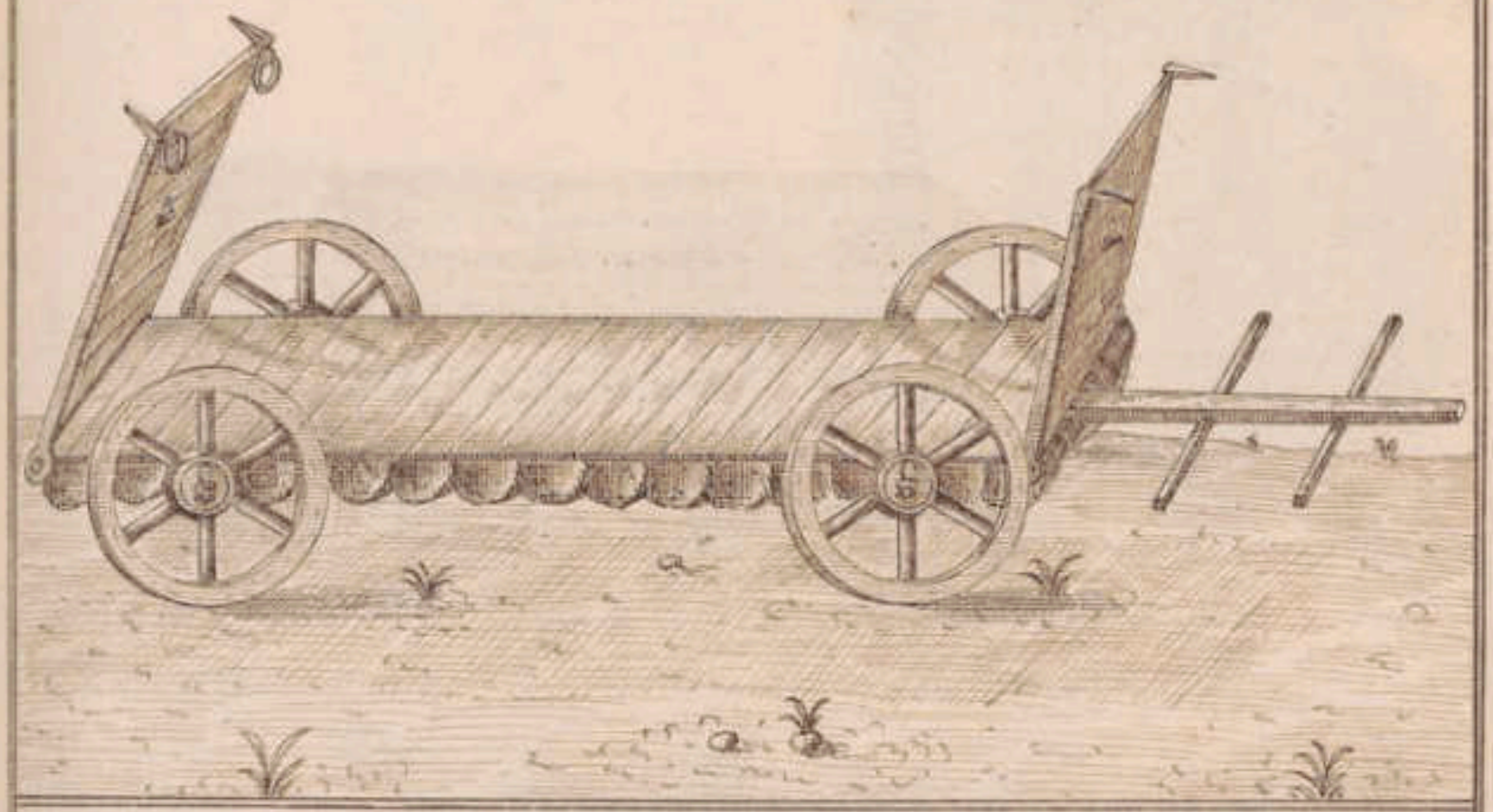
Mantelet pour le mesme effect.

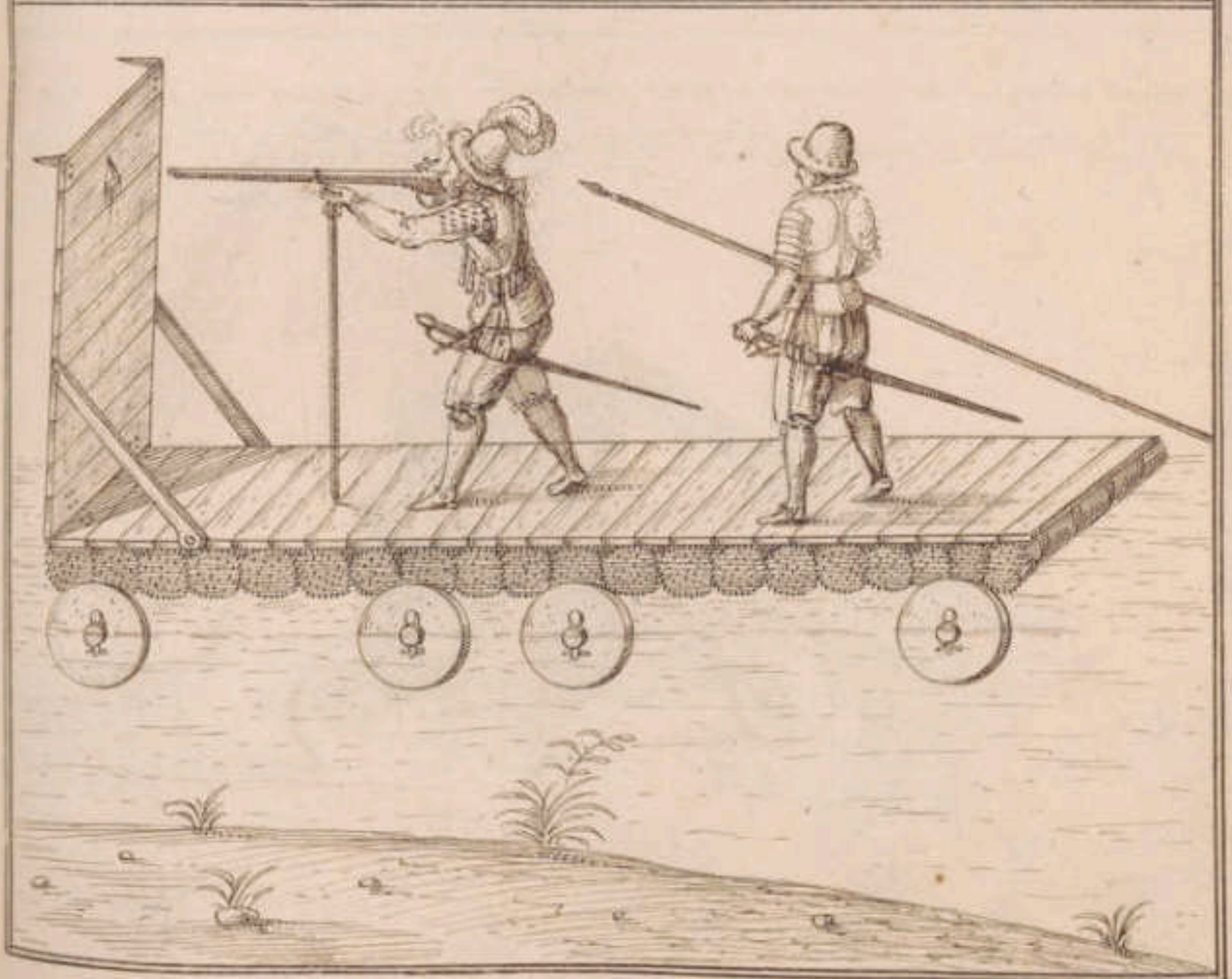
Mantelet faict en maniere d'un pont

Autre mantelet faict en maniere de pont



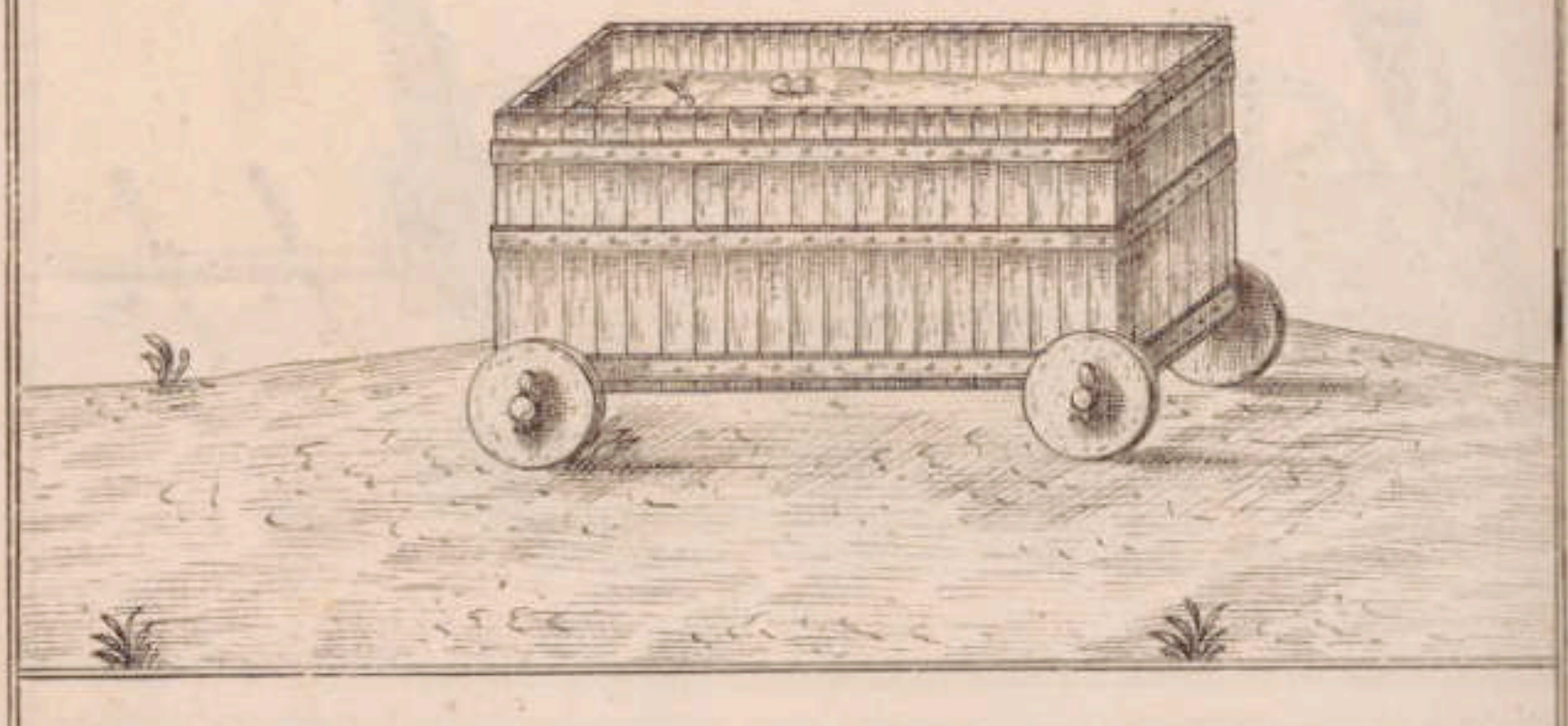
Chariot fait en maniere de pont accommodé avec des Poutres de Sangs pour passer le fosse d'un Retrenchement.



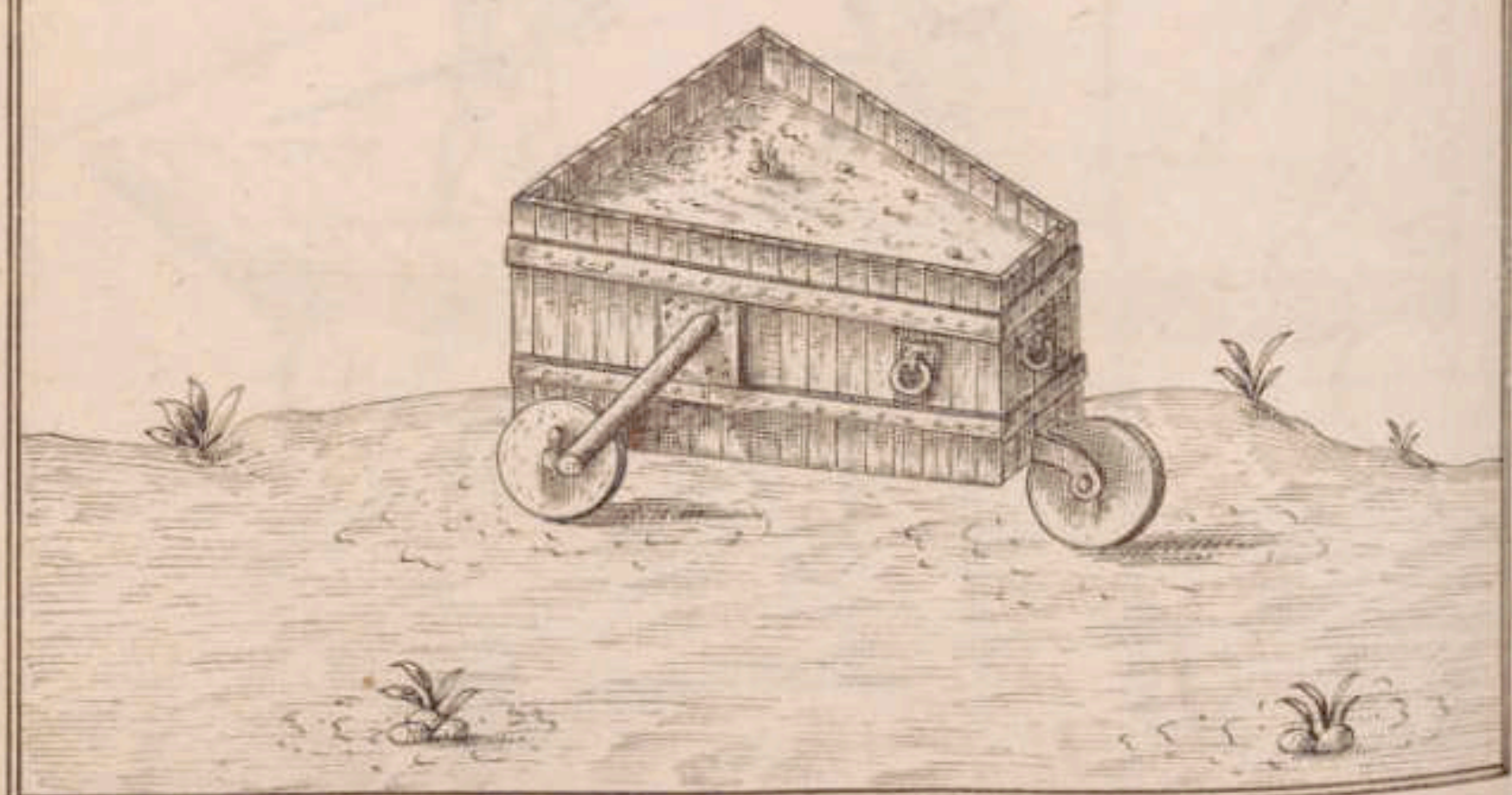


Coffre monte sur quatre Roulleaux Remply de terre ou fun propor
pour se Retrencher a la suite et pour mamtenir vng post

Lequel coffre doibt auoir 6 pieds de longeur et 3 pieds de largeur
de hauteur de 4 $\frac{1}{2}$ 1.

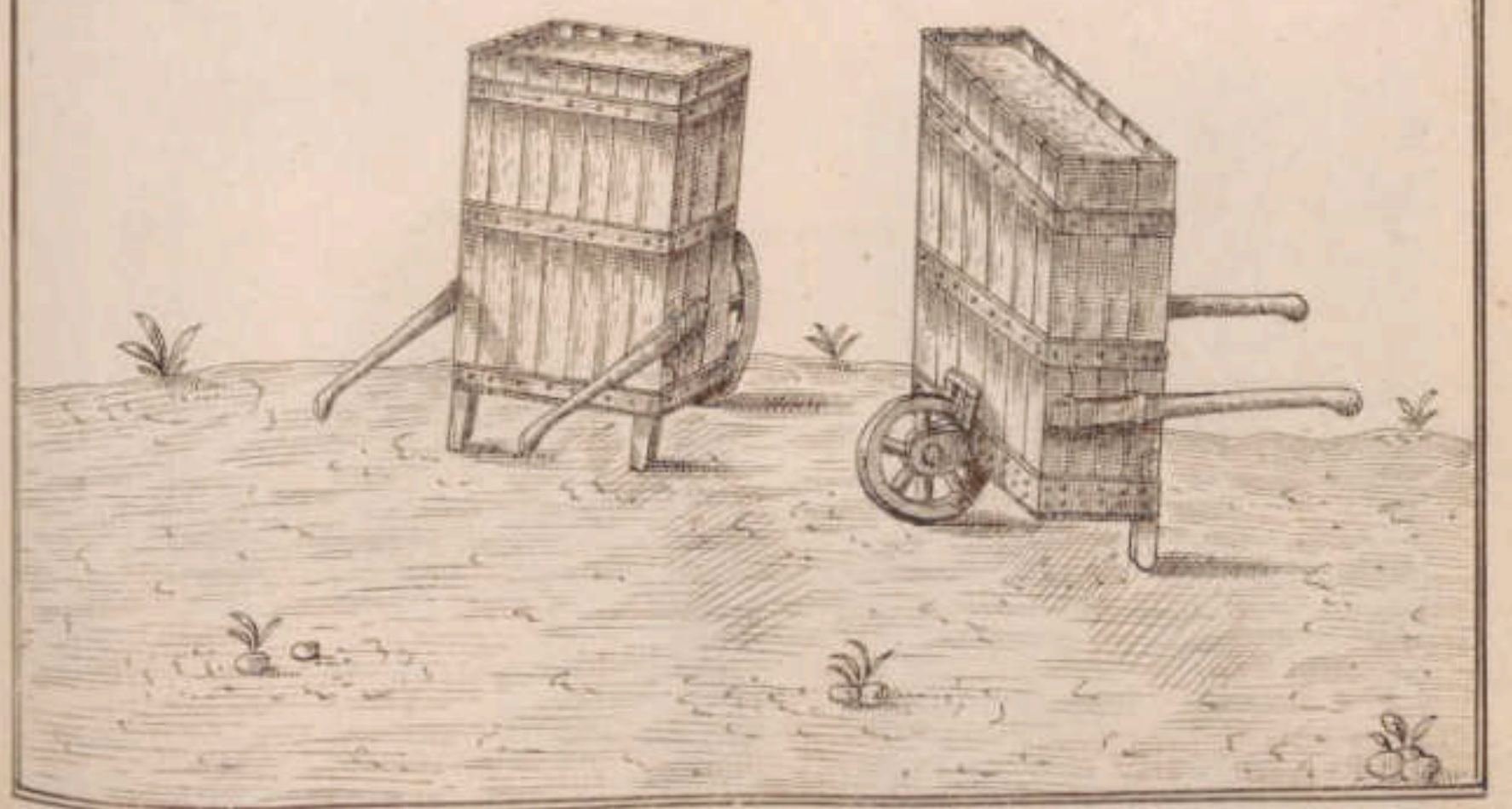


Coffre triangle bon pour mamtenir vng post, lequel auecq vne piece de
bois qui passe au trauers l'on le faict tourner de tous costez

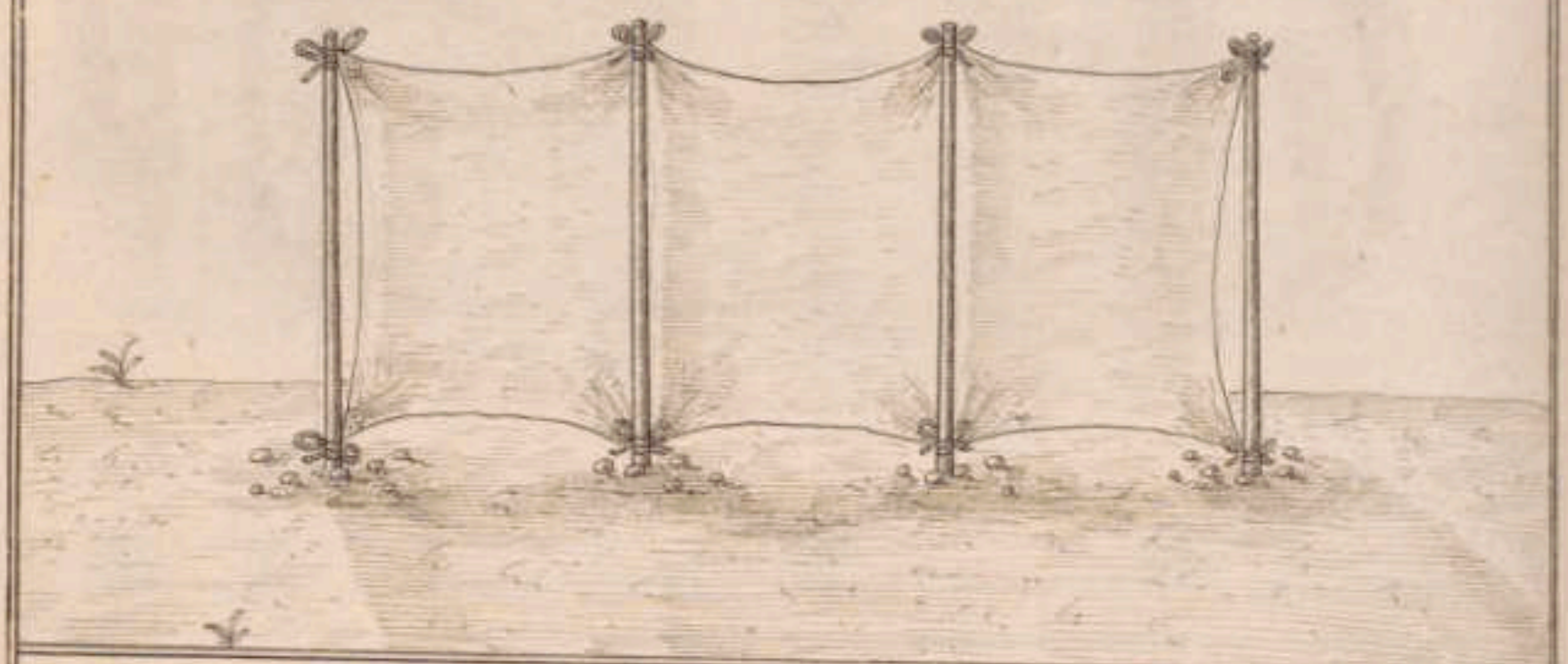


La maniere de faire vng retrenchement des tonneaux remply de terre ou fiem.

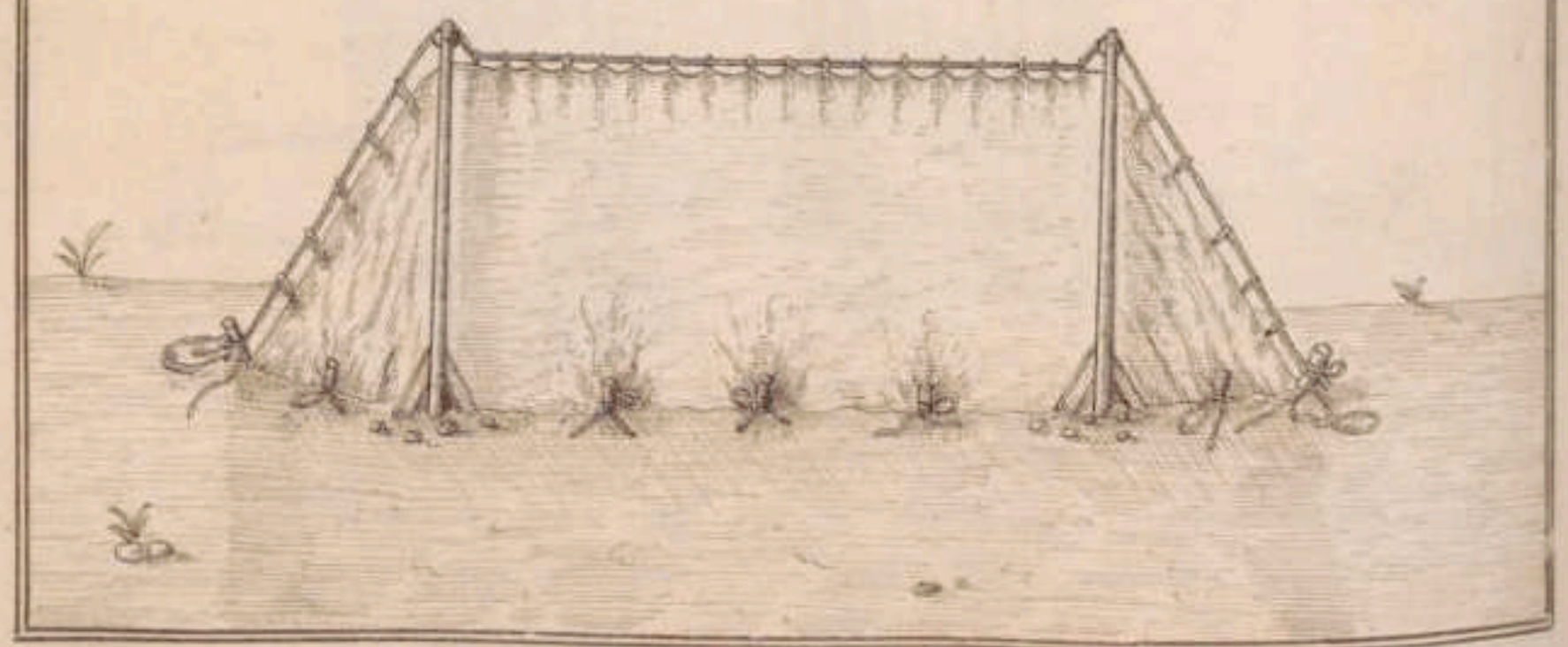
Ceffres faict en maniere d'vne Brouette lequel vne Femme peult ammener deuant luy pour se couurir

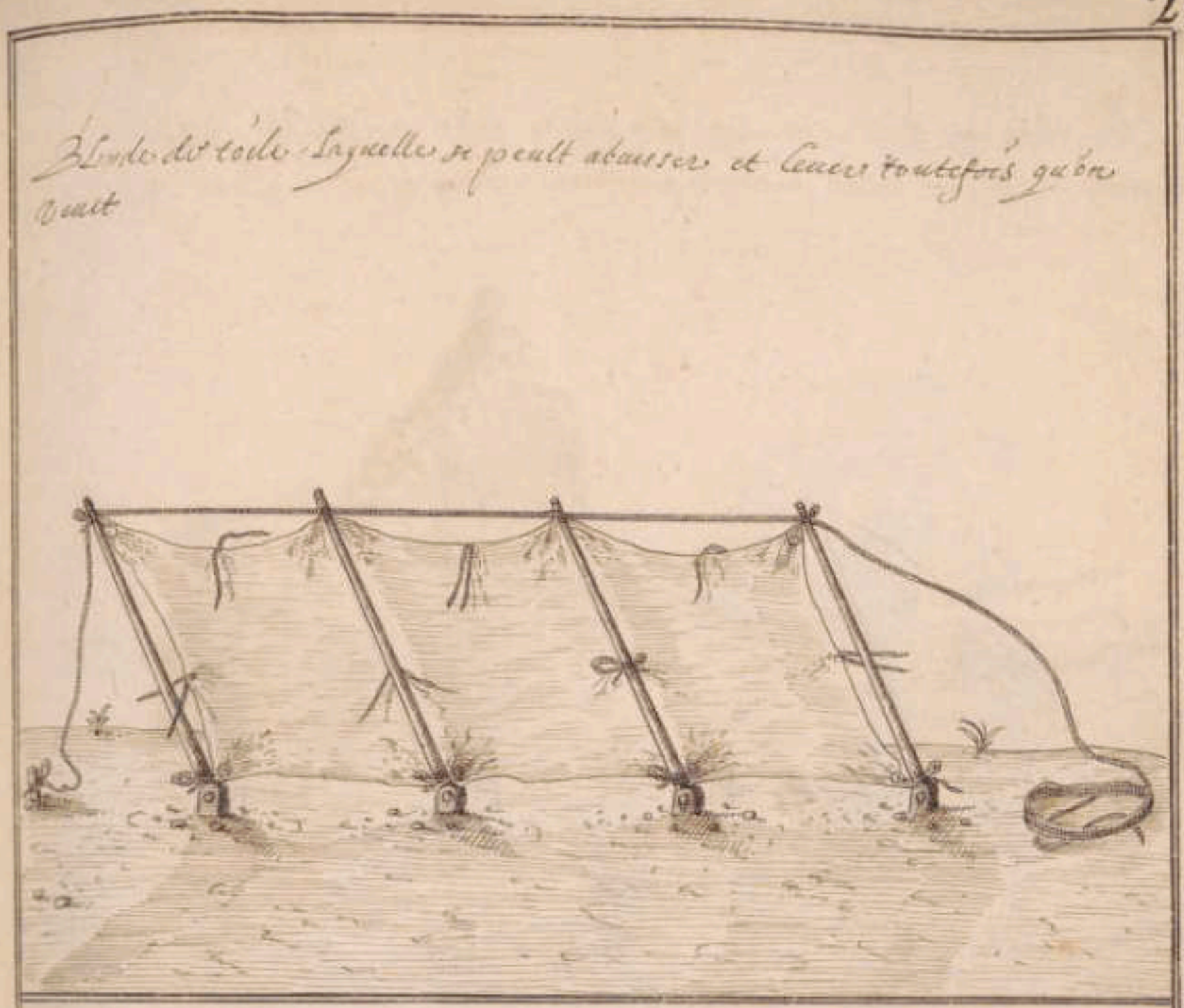


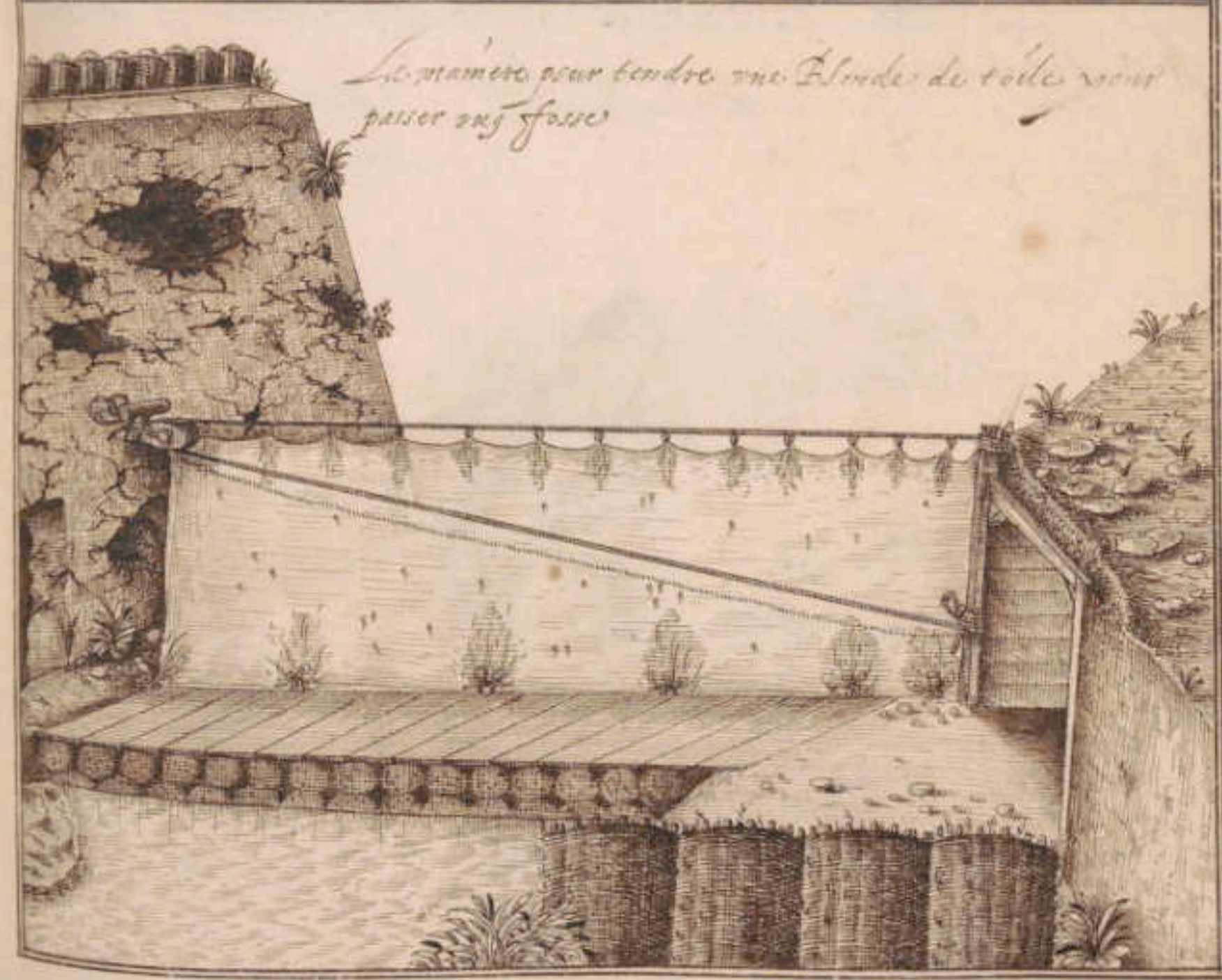
Blinde de toile



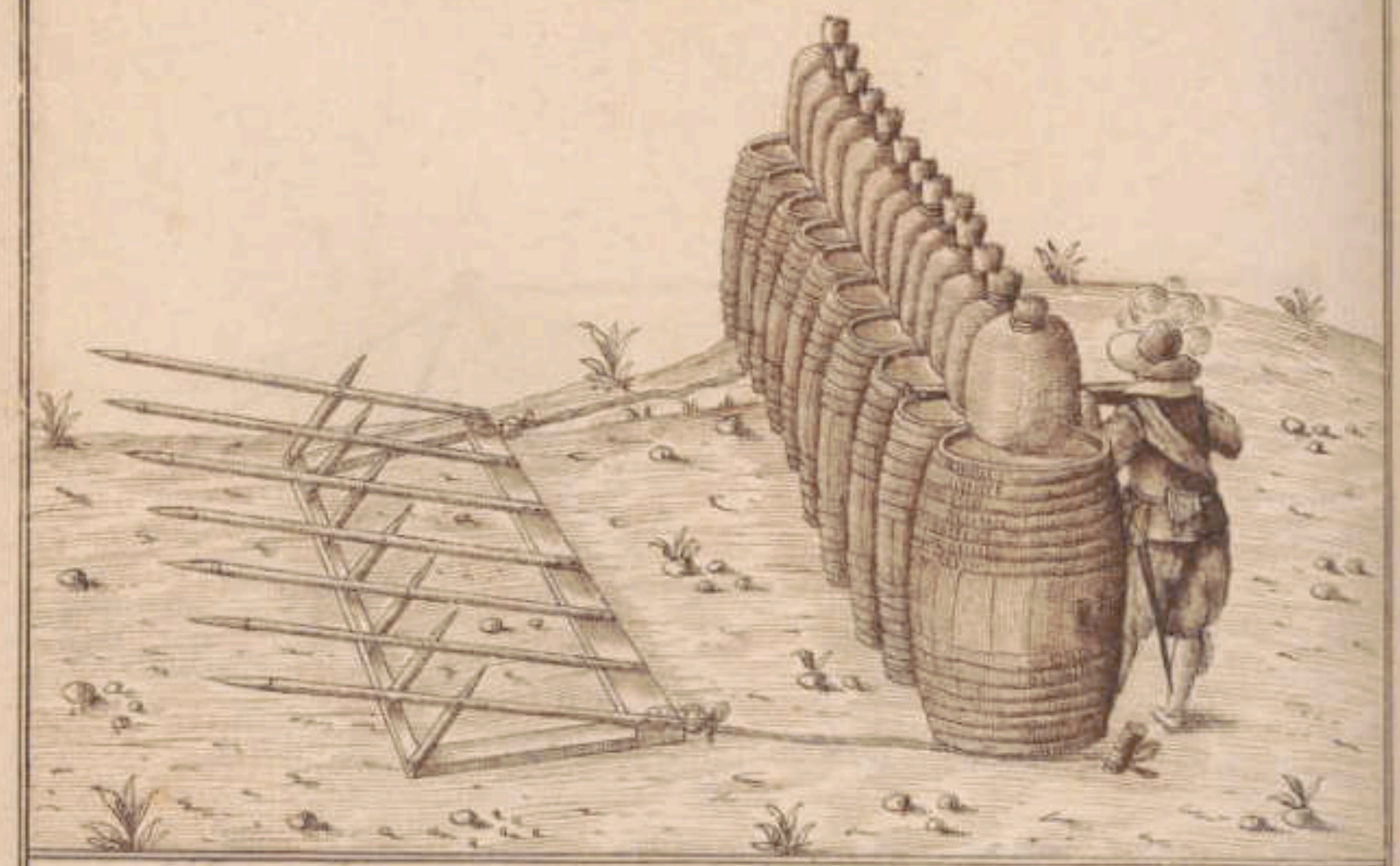
Autre Blinde de toile



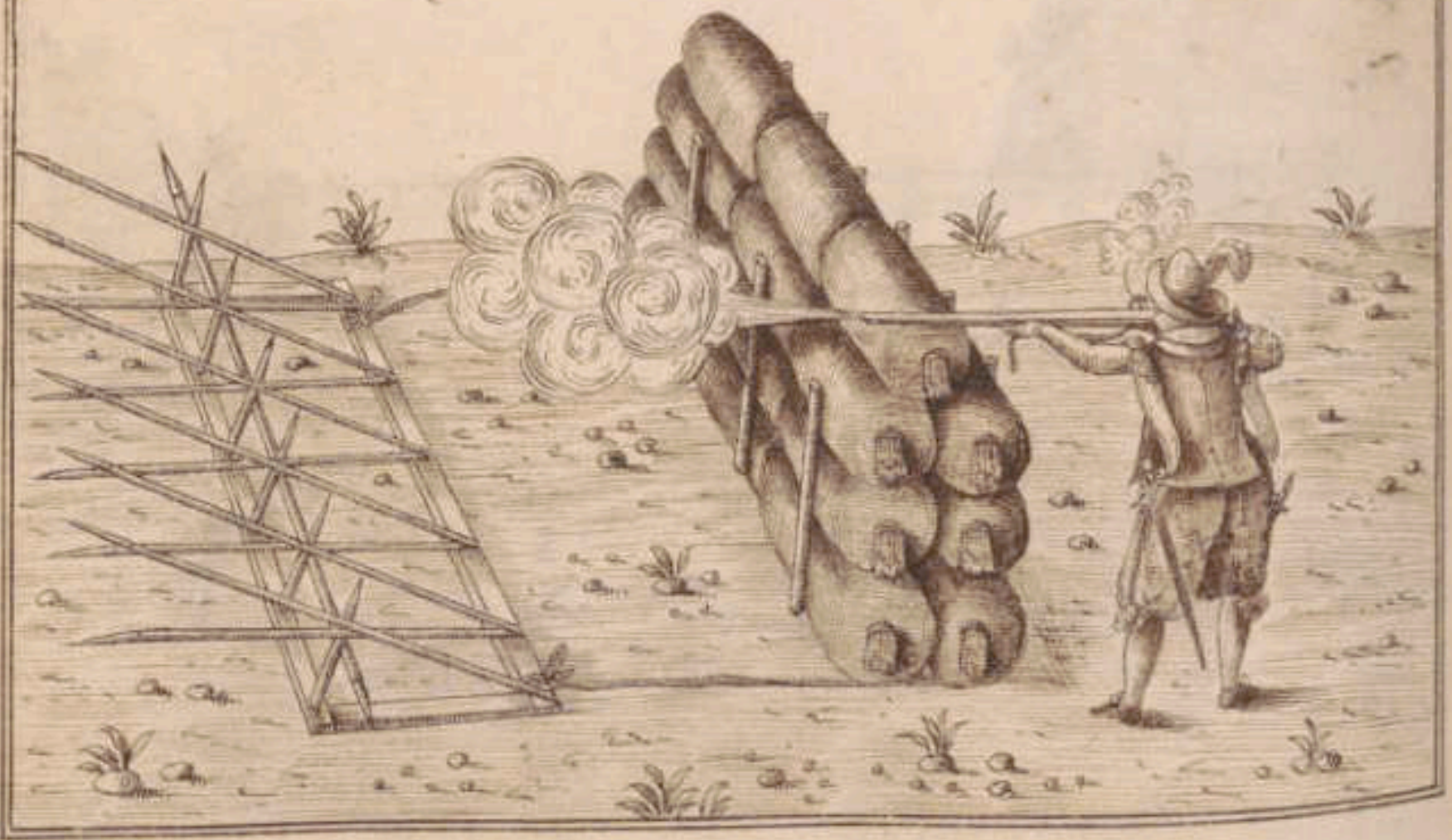




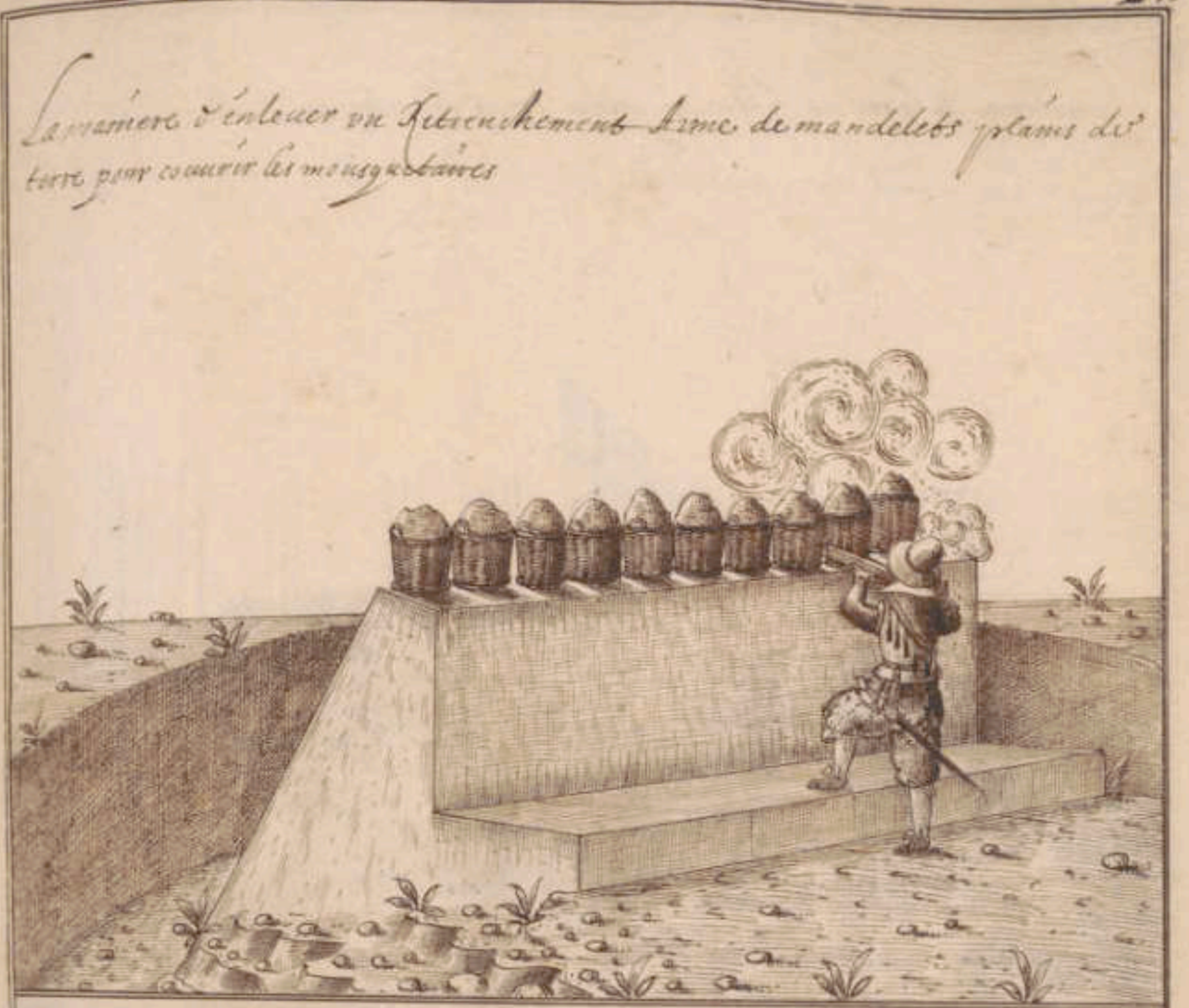
Pour faire vng Retrenchement des grands tonneaux Remplis de terre.
avecq des saiques plein de terre par dessus, pour couurir les mousquetaires



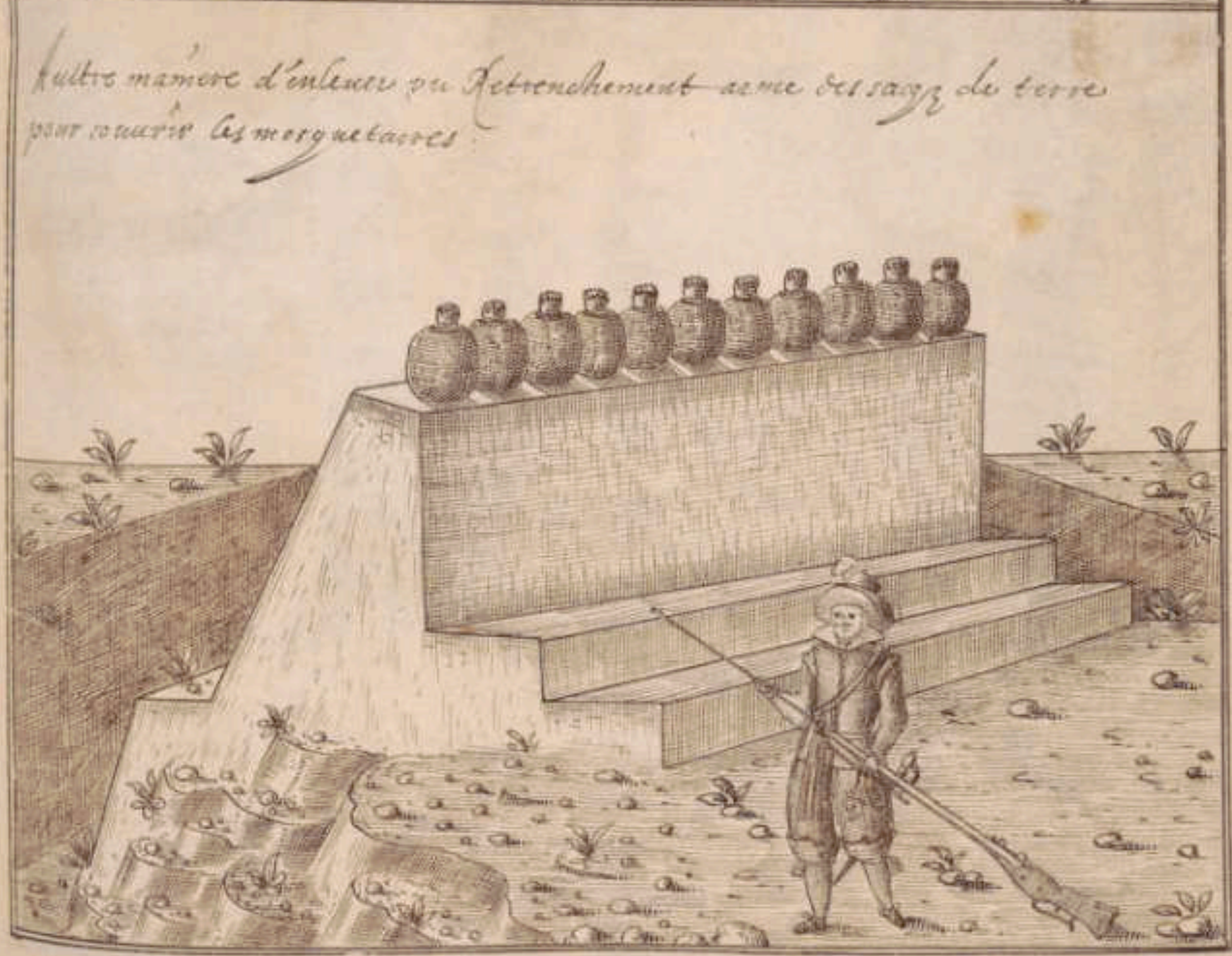
Autre Retrenchement des sacqz plaines de Lain ou foin bien entasse.



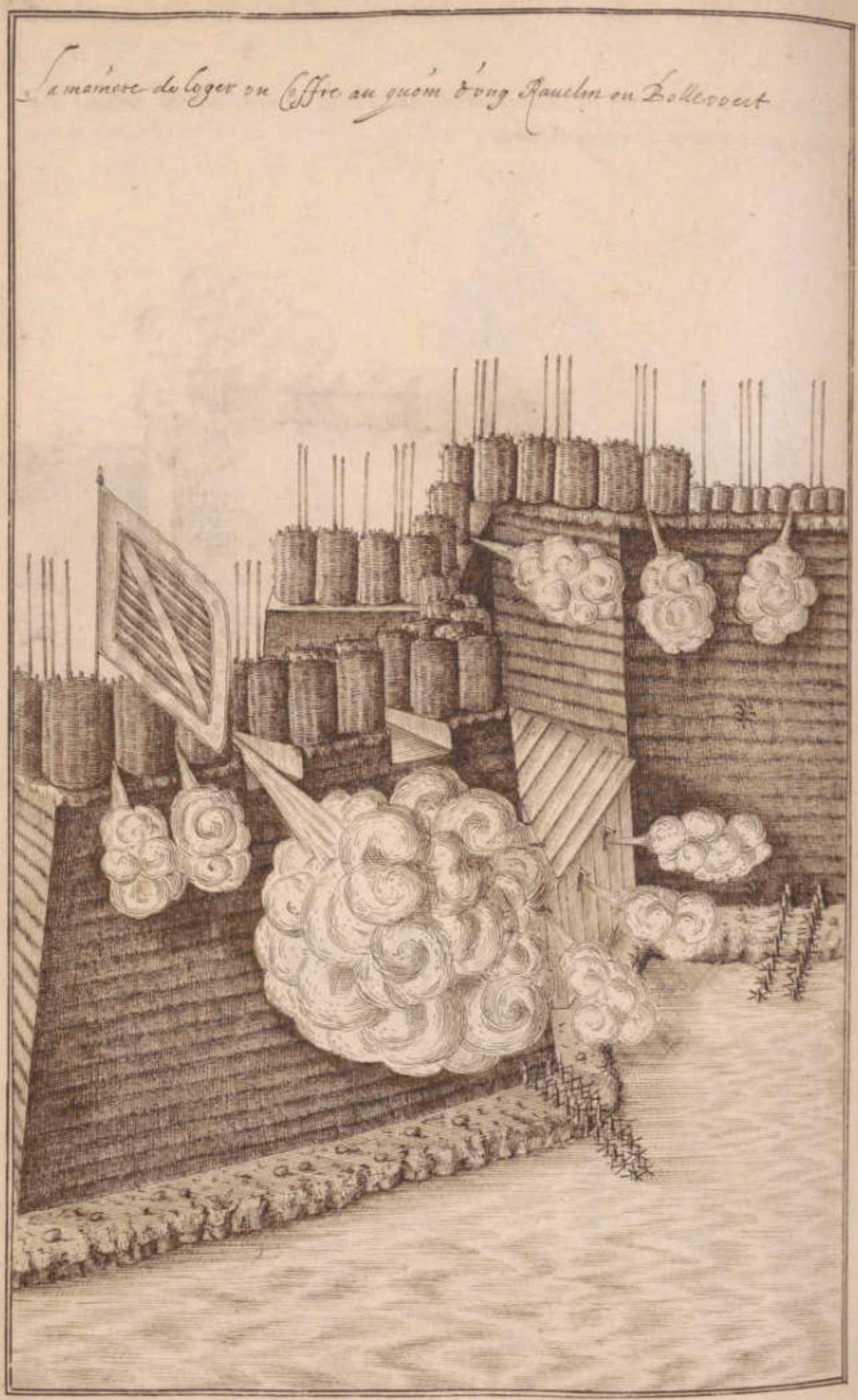
La premiere d'enleuer vn Retrenchement a me de mandelets plains de terre pour couurir les mousquetaires

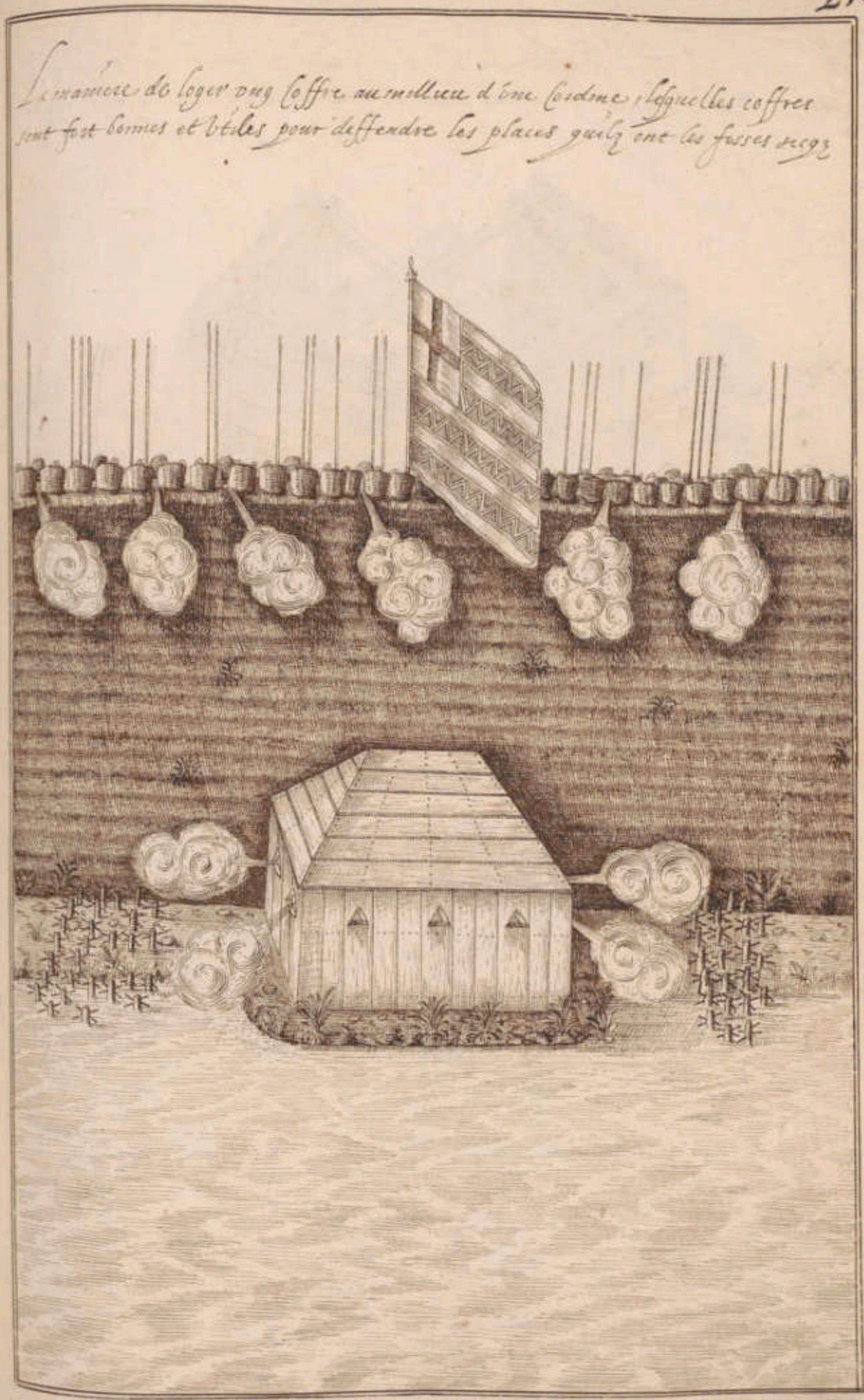


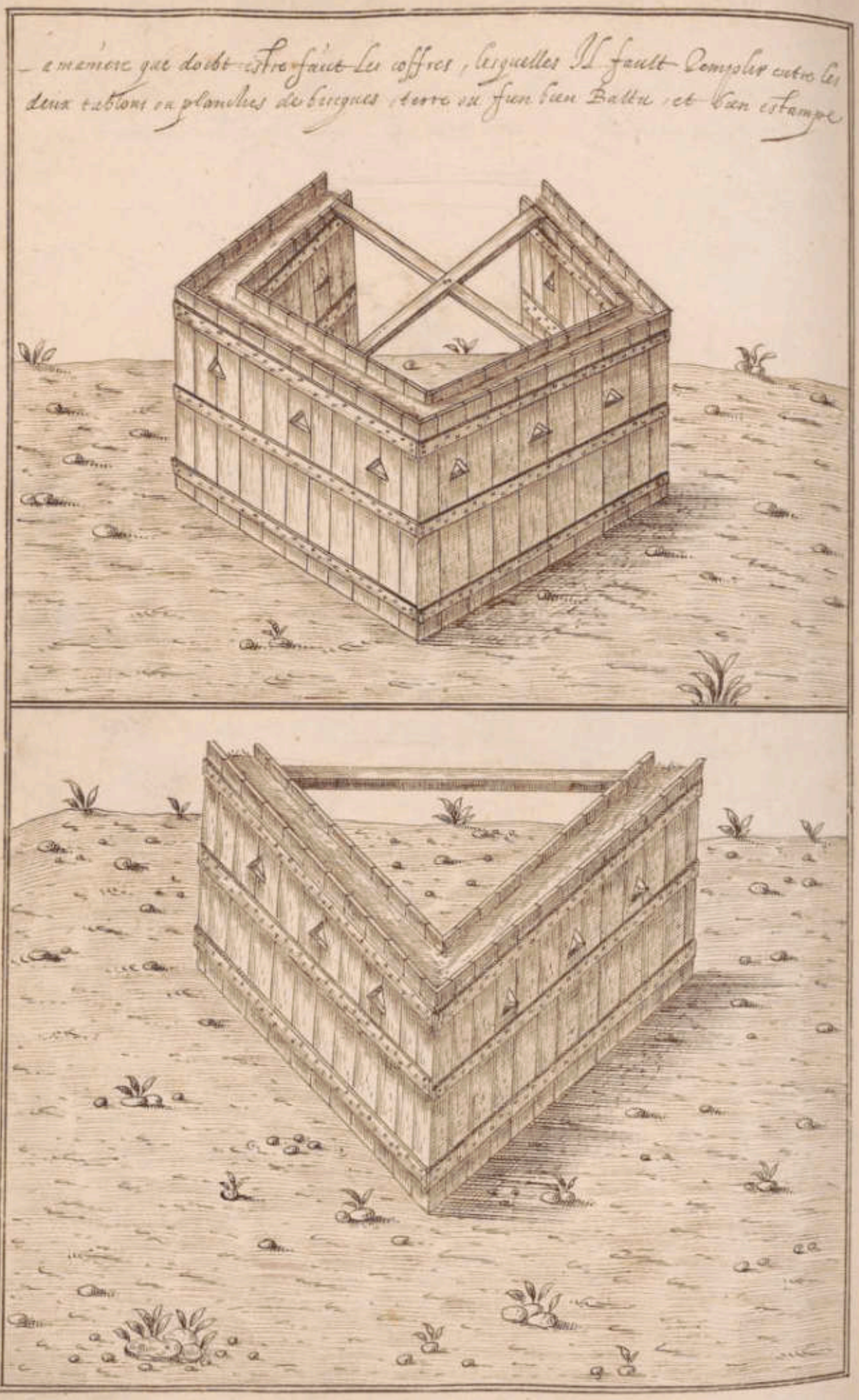
Autre maniere d'enleuer vn Retrenchement a me des sacqz de terre pour couurir les mosquetaires

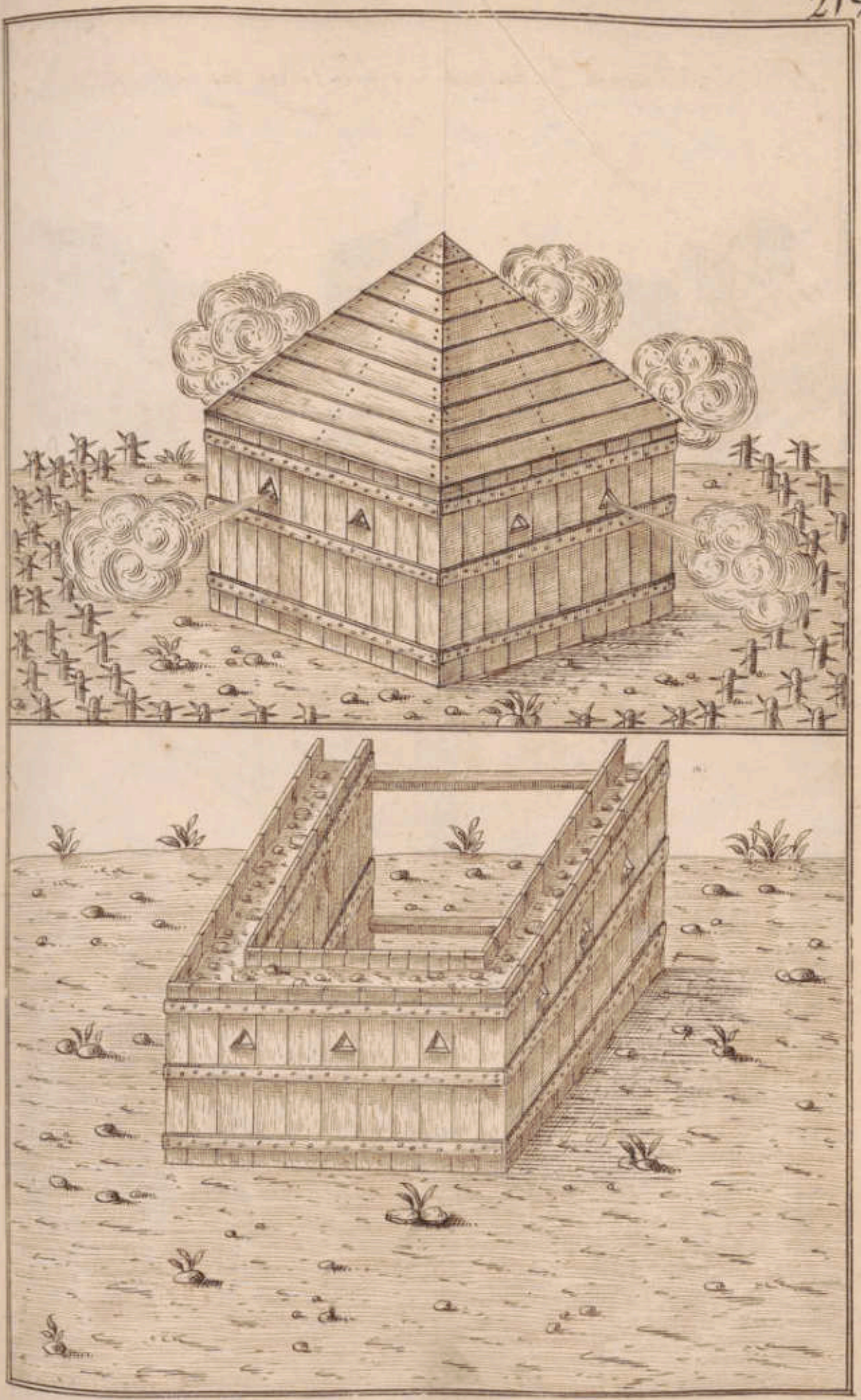


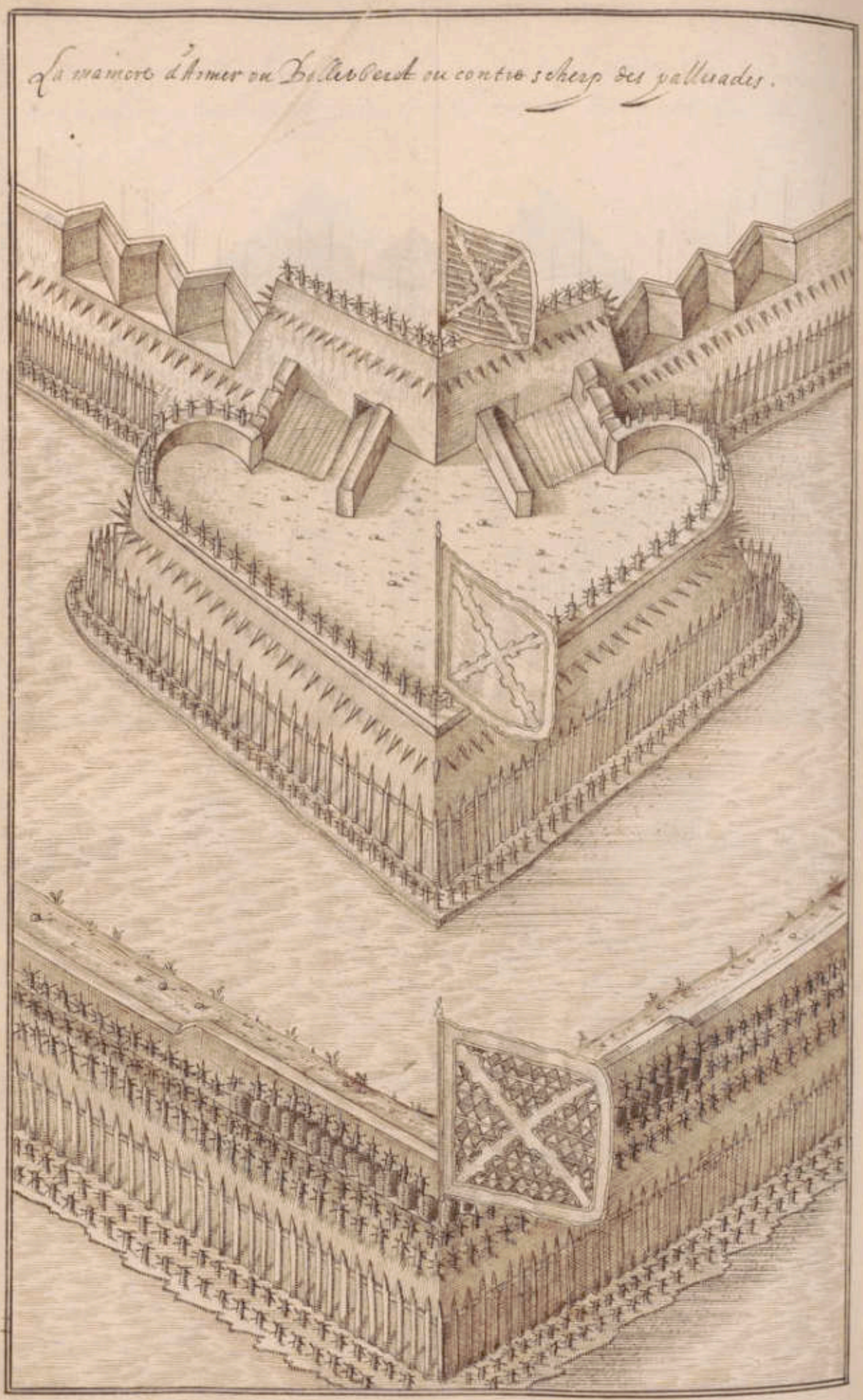
La manière de loger un Coffre au guom d'ung Rauelin ou Bollevoert



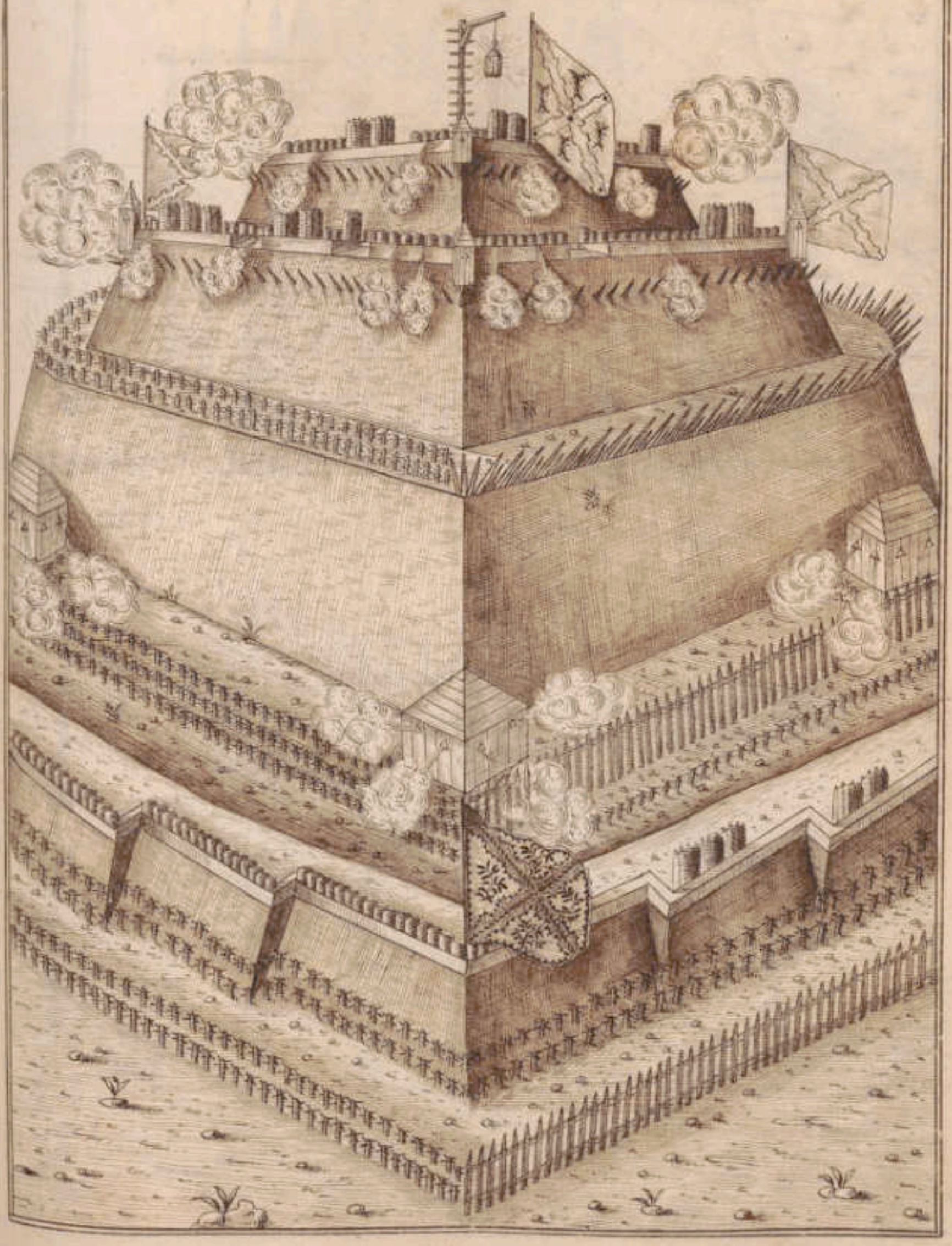




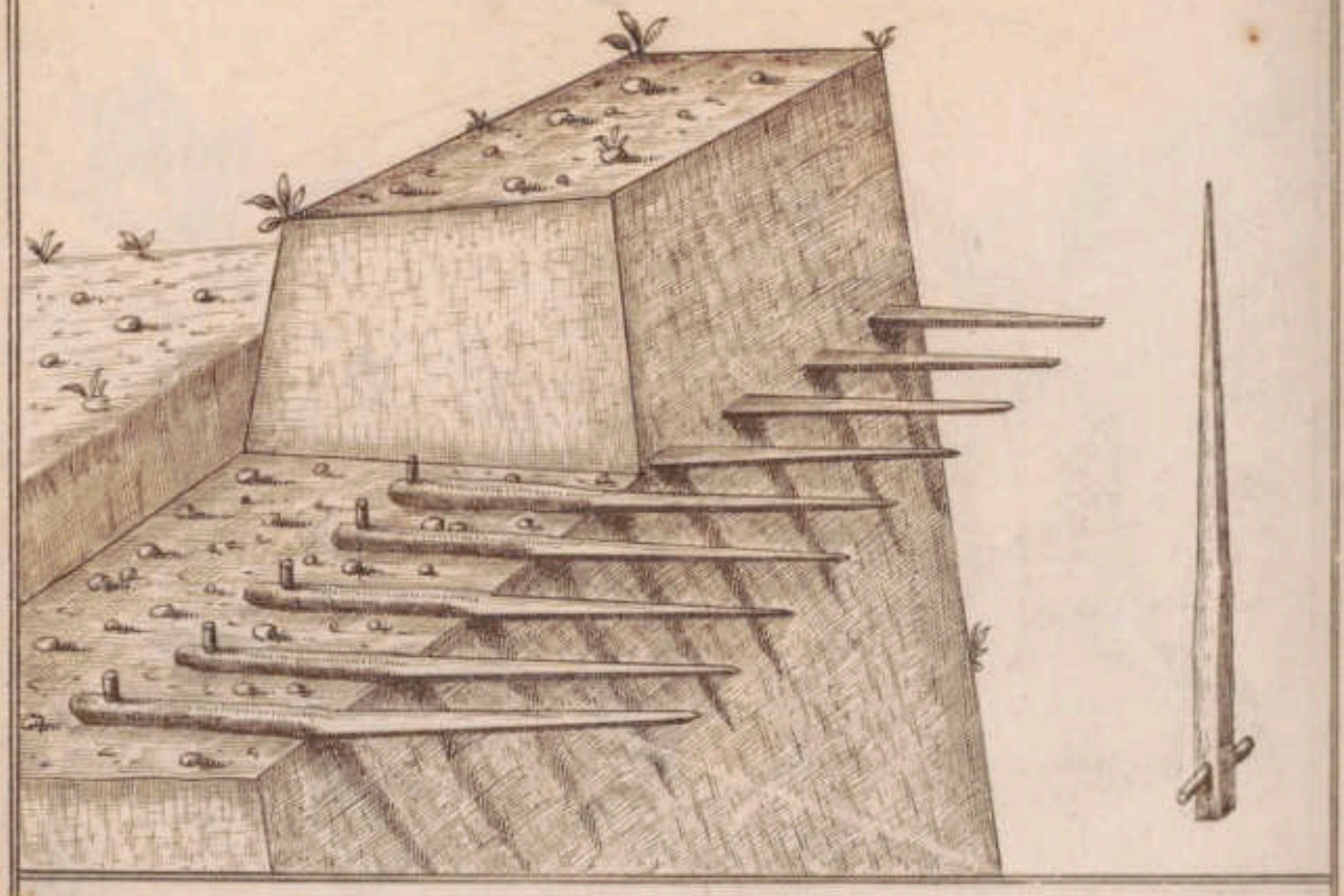




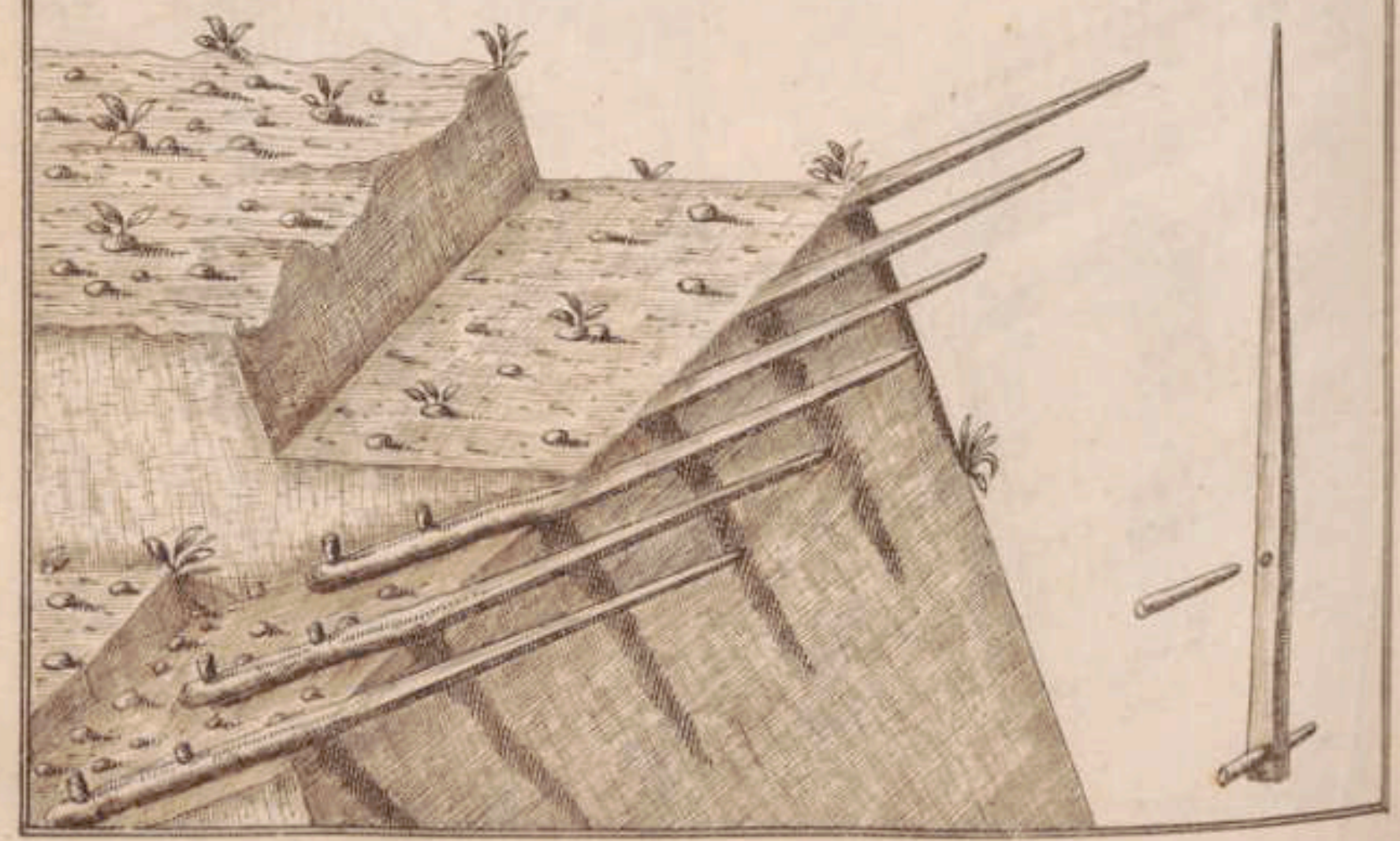
Autro manero d'armer vn Bollevert a fosso secq; et en quo lieu deduent estre mis les Coffres, affin de s'planeguer le fonds du fosso.



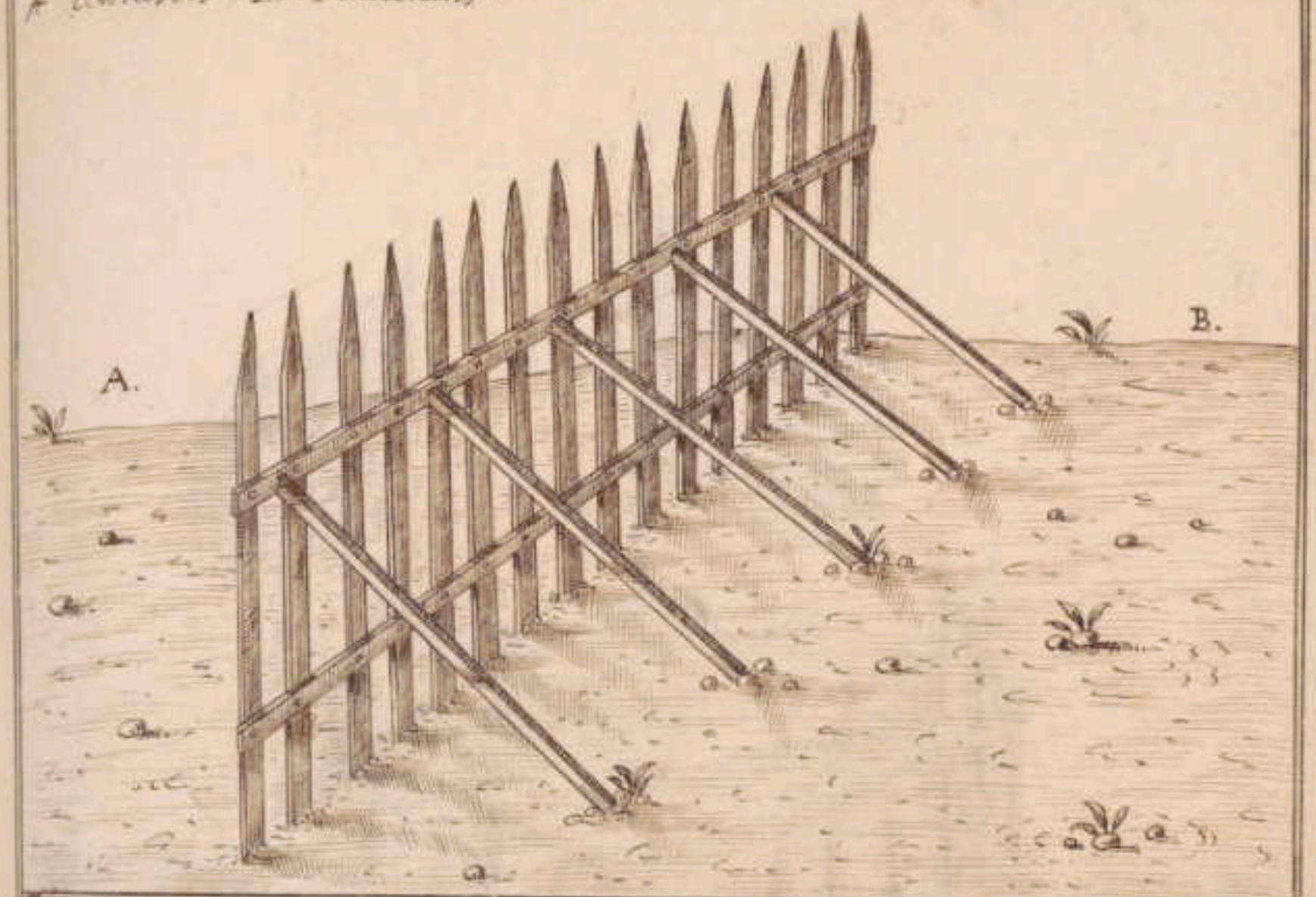
Palisade contre les escalades,



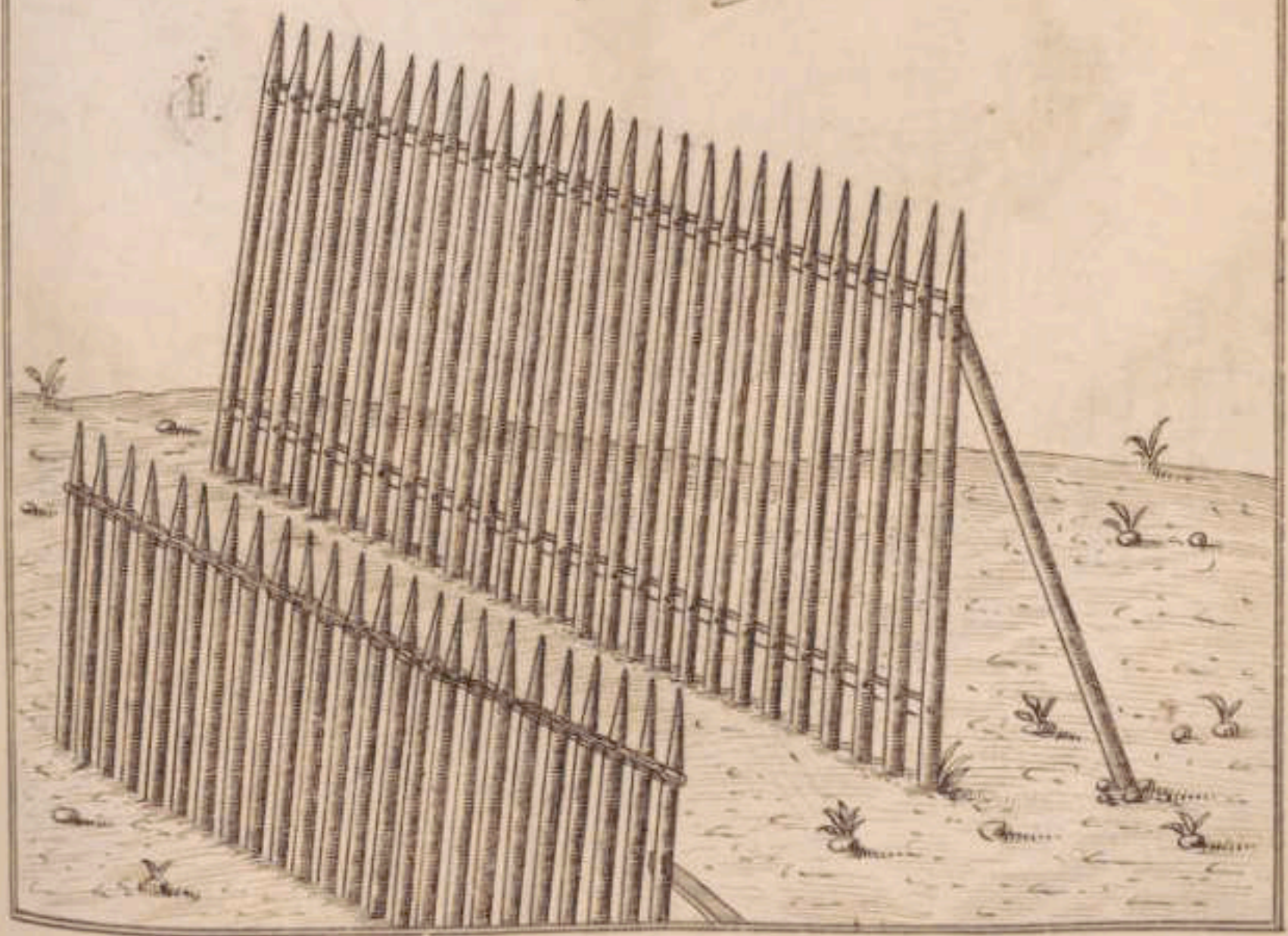
Autre palisade pour le mesme effet



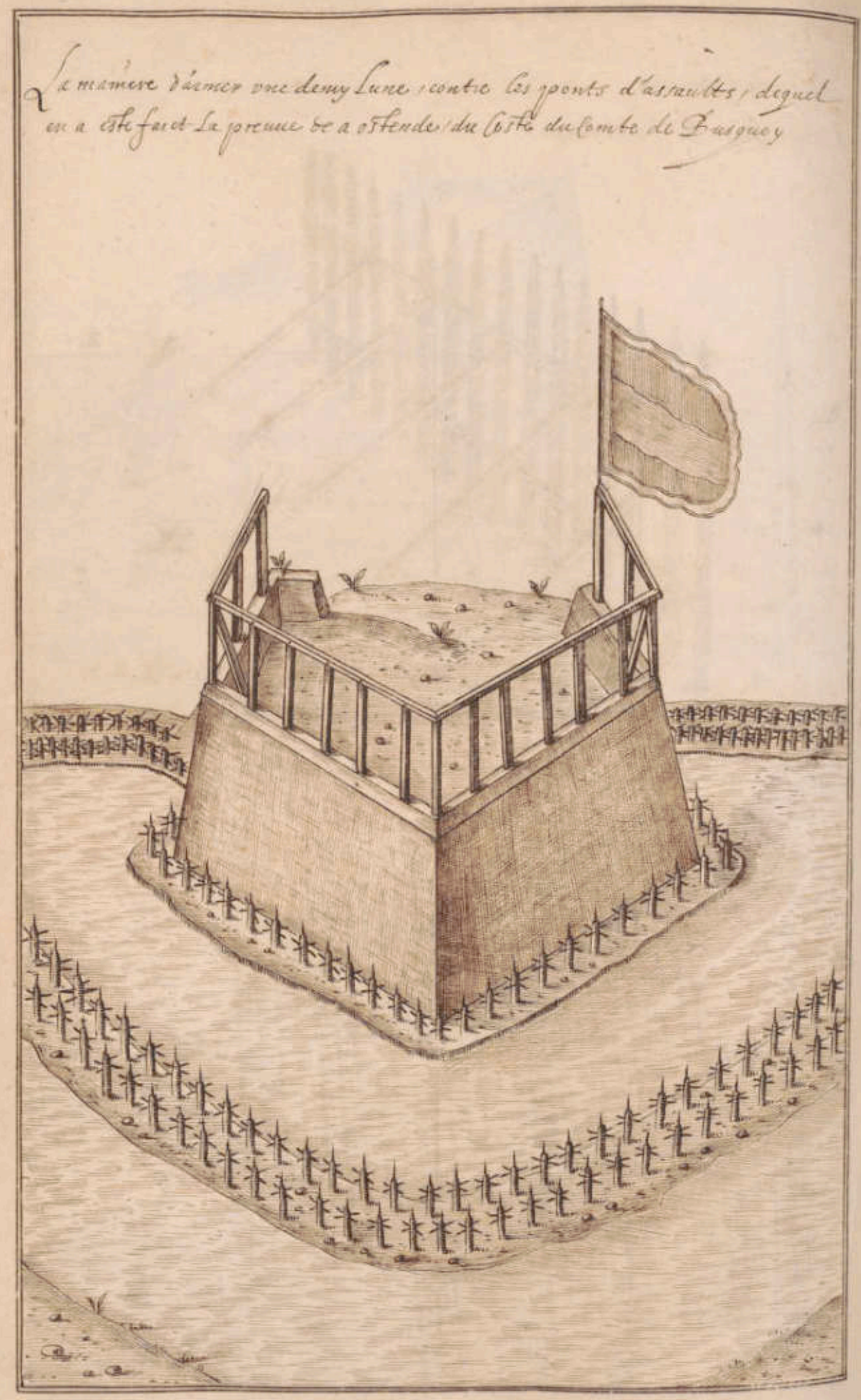
Palisade ordinaire
A l'endehors, B. l'endedans.



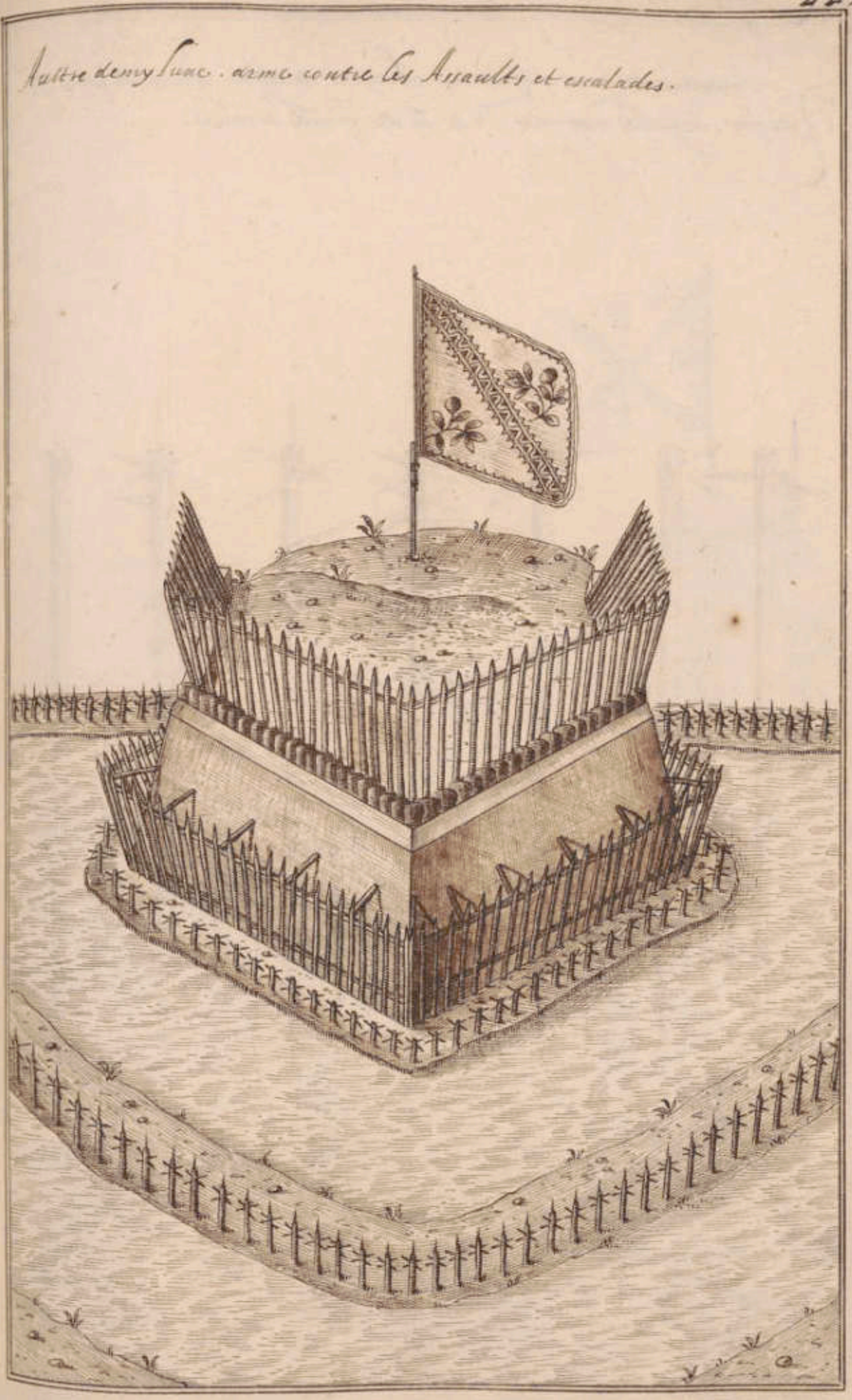
Palisade double: l'une est plus bas que l'autre.



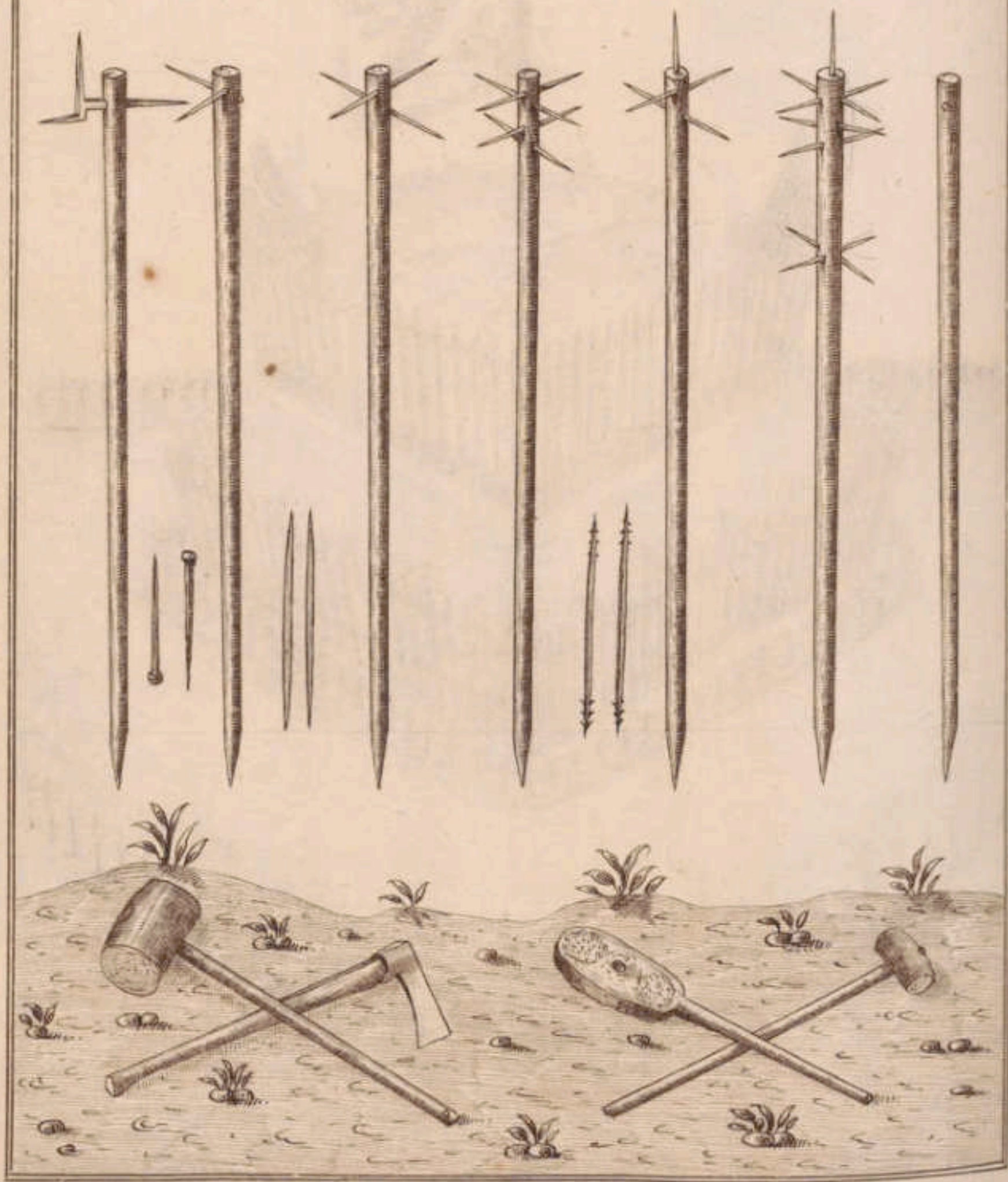
La maniere d'aimer une demy Lune, contre les ponts d'assaultes, dequel
on a esté faict la premiere de a ostende, du costé du Comte de Frasquey

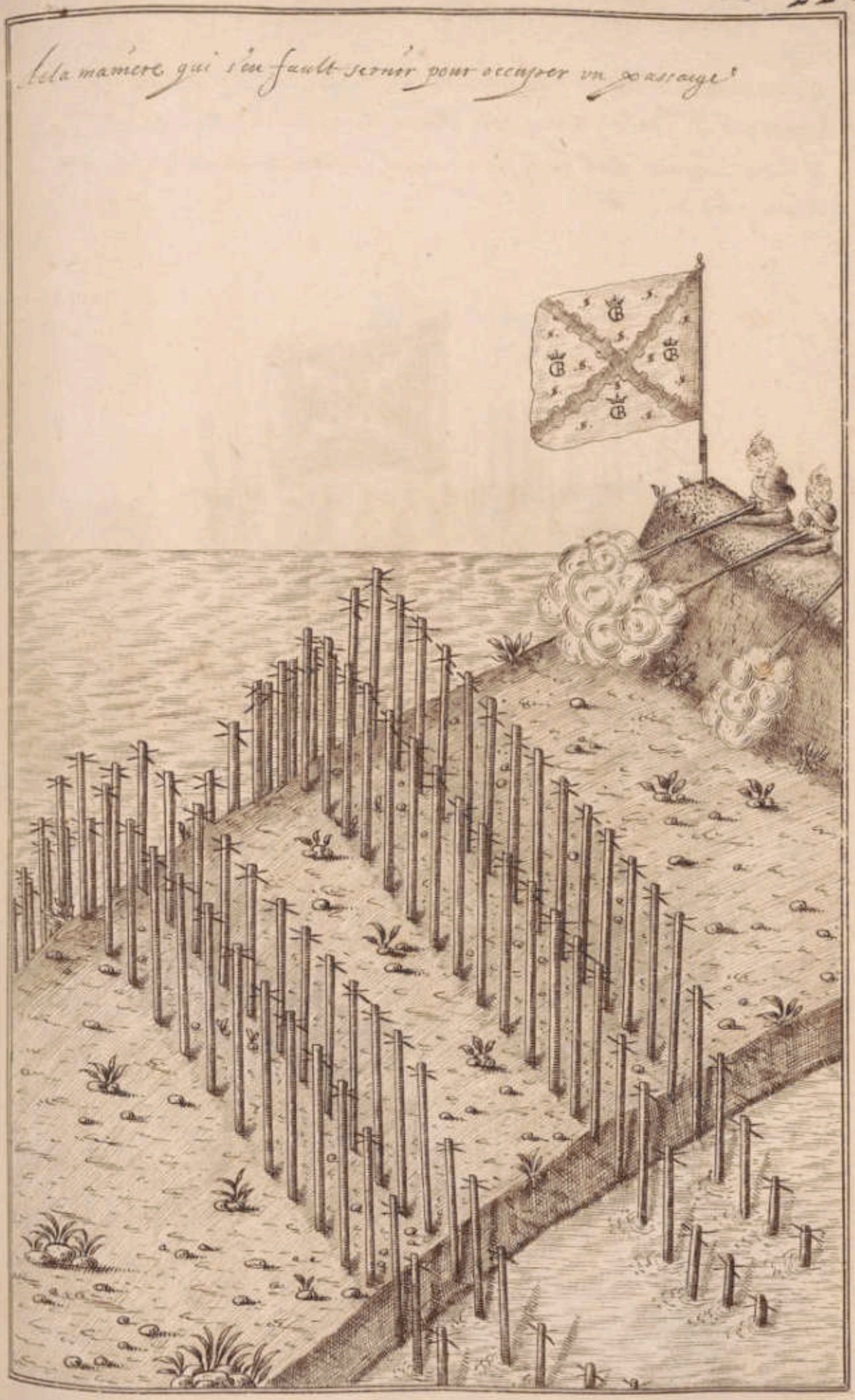


Autre demy Sunc. armé contre les Assaults et escalades.

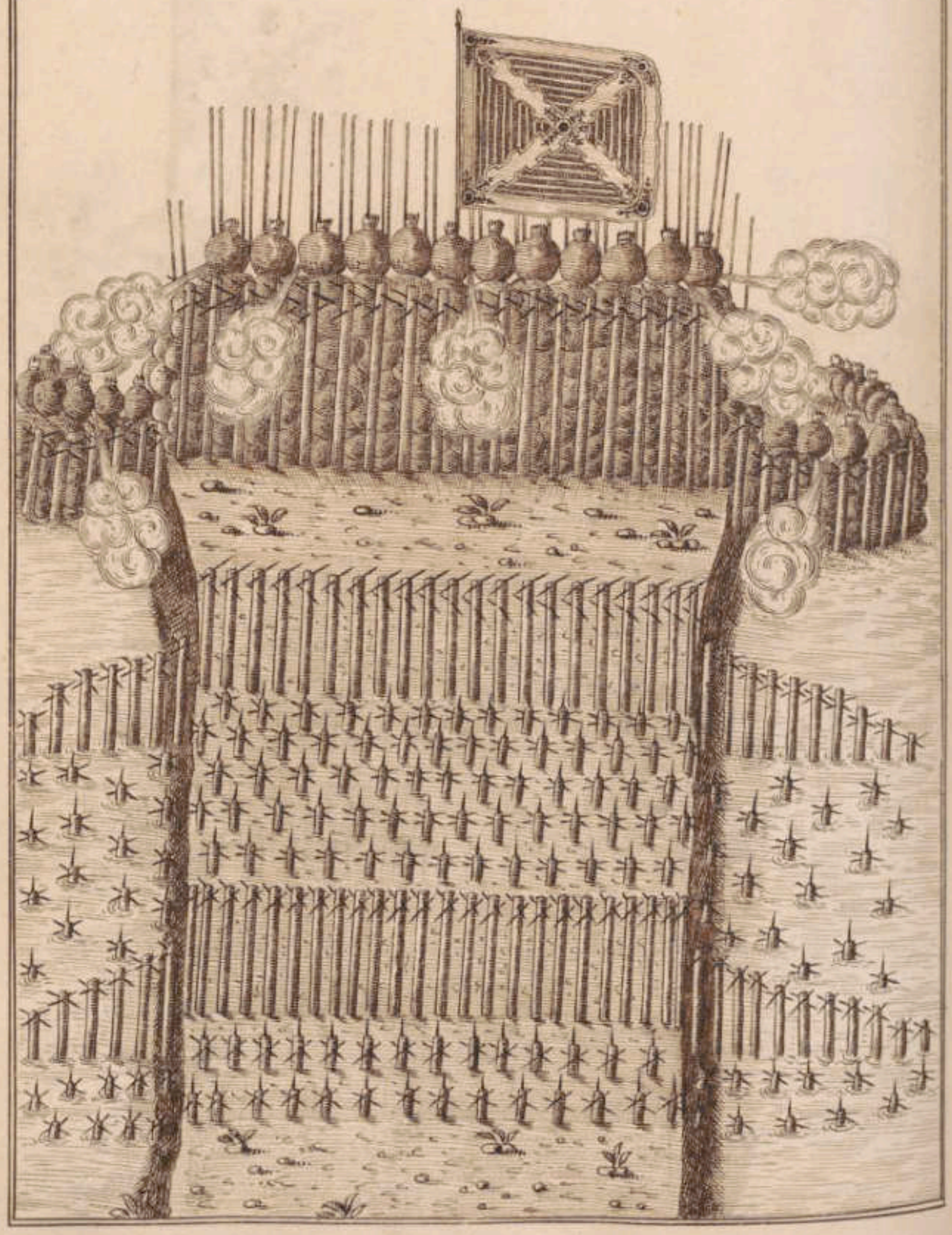


La maniere de faire differentes estacques de sapin armees de pointes de fer, lesquelles sont fort belles et de grand service.

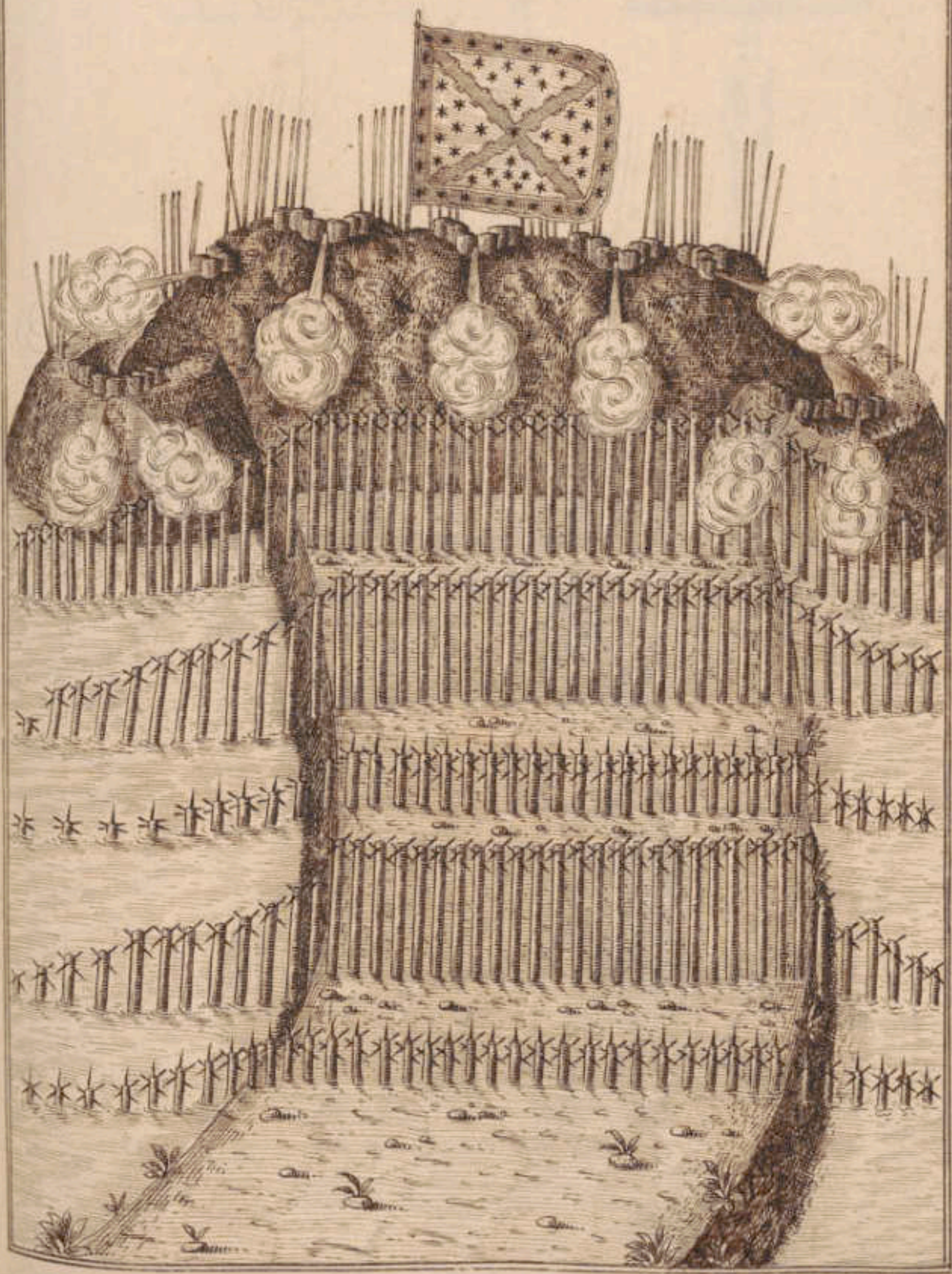




Lemanière d'occuper et empescher les passages sur des digues, Au
premier Il faust planter deux Rancs de palisade arriere de l'un
l'autre, l'espace de 6 piedz, et emplir, l'entredeux des Sacqz des
Cambas plain de terre

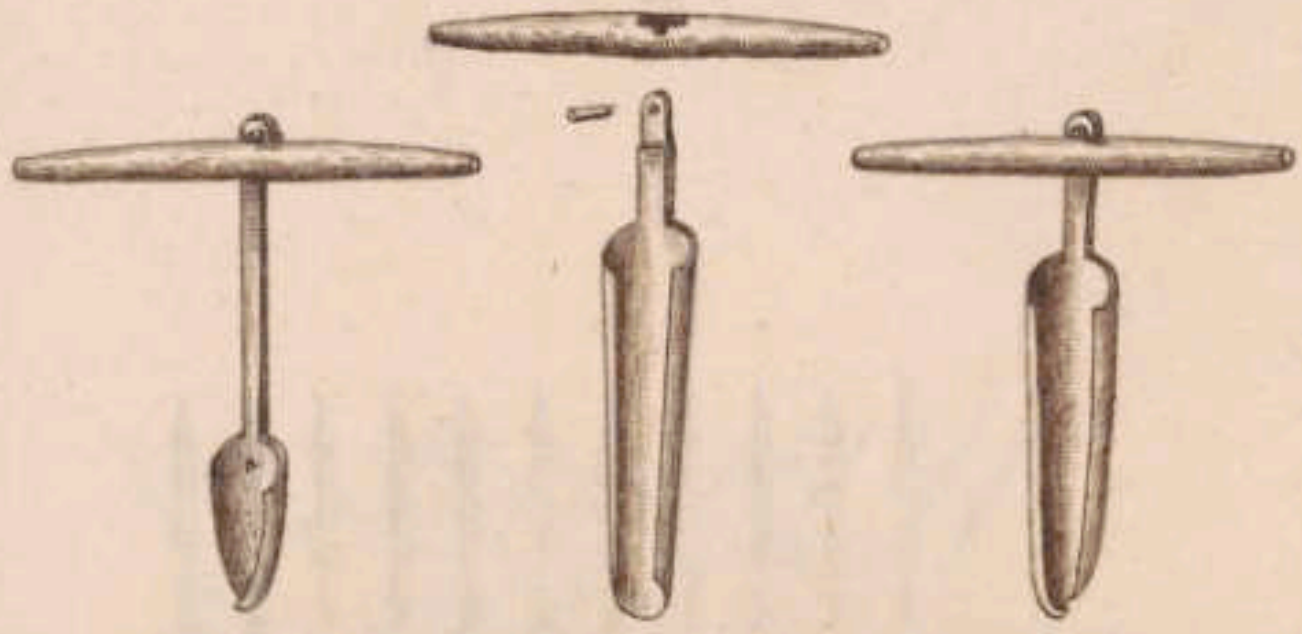


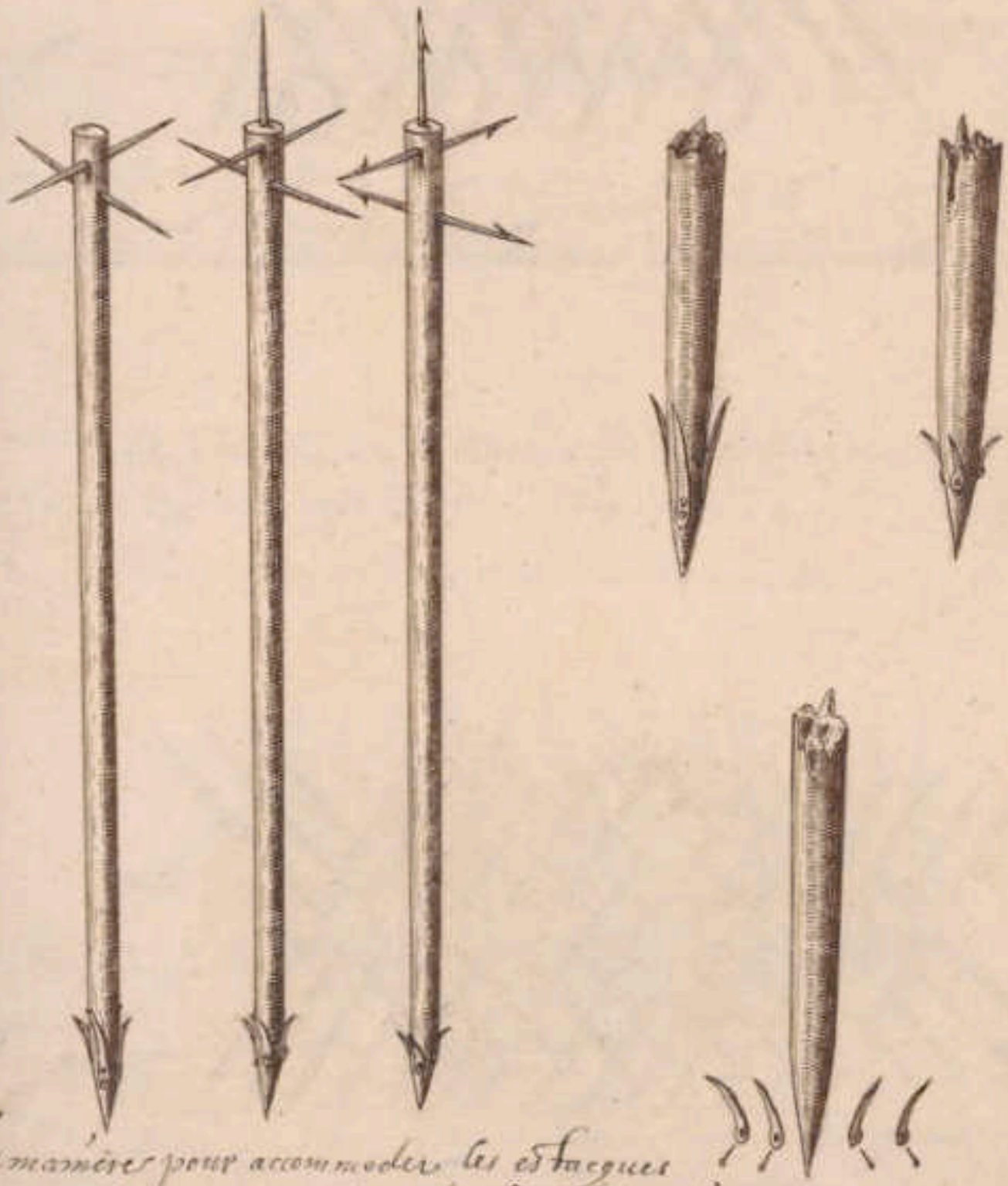
A ótra manera d'acupar passages ou pour prendre post.



La maniere de planter les estacques sans faire du bruit.

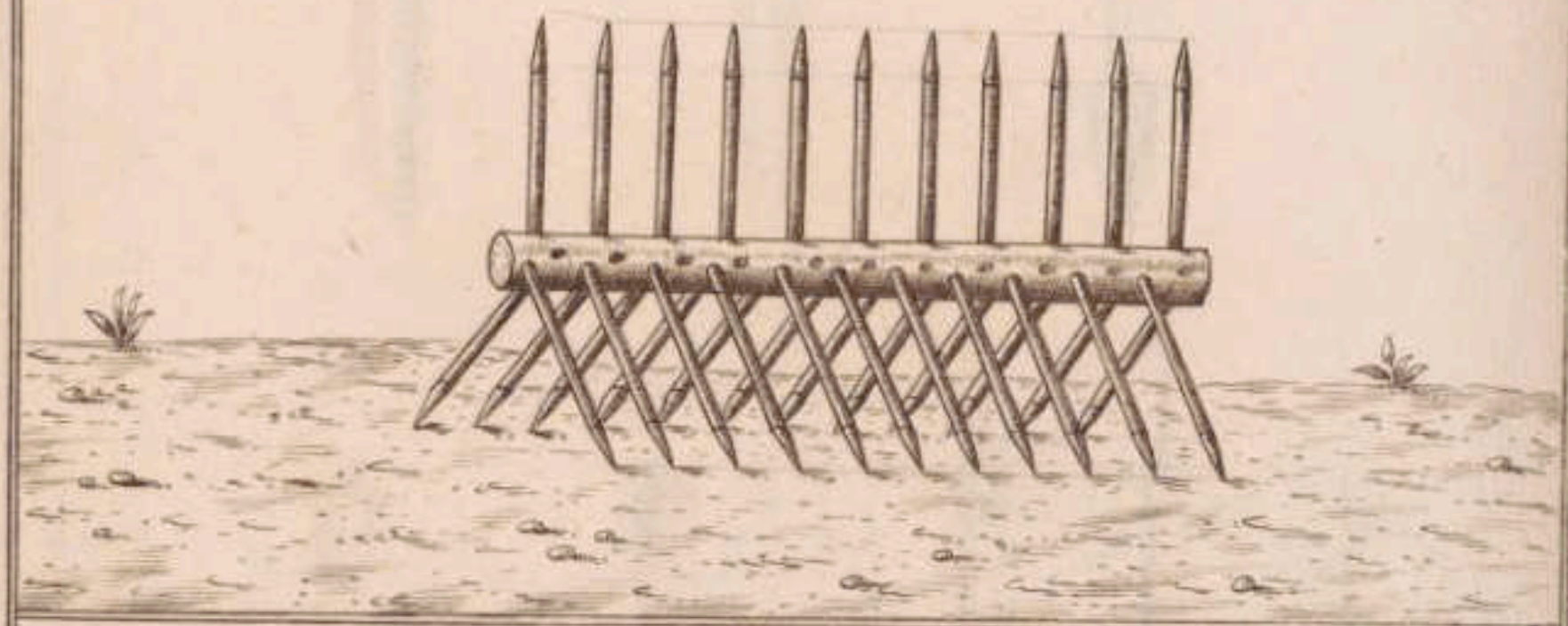
Serrures pour faire des trous en terre pour planter des palisades affin que l'ennemis n'entende le bruit de frapper avecq les malliets.



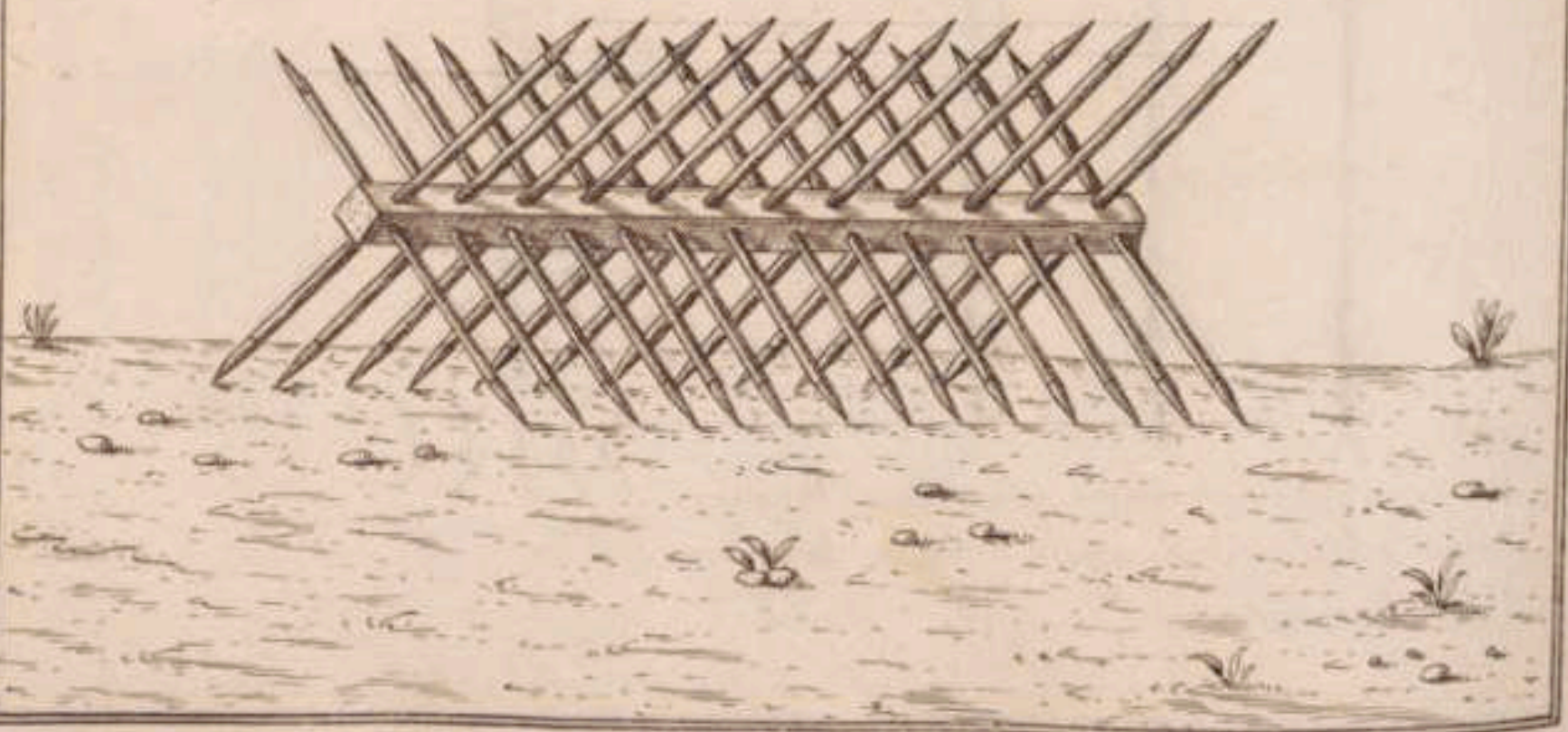


La manière pour accommoder les estacques avecq des Languettes, affin qu'on le peult point retirer hors de terre.

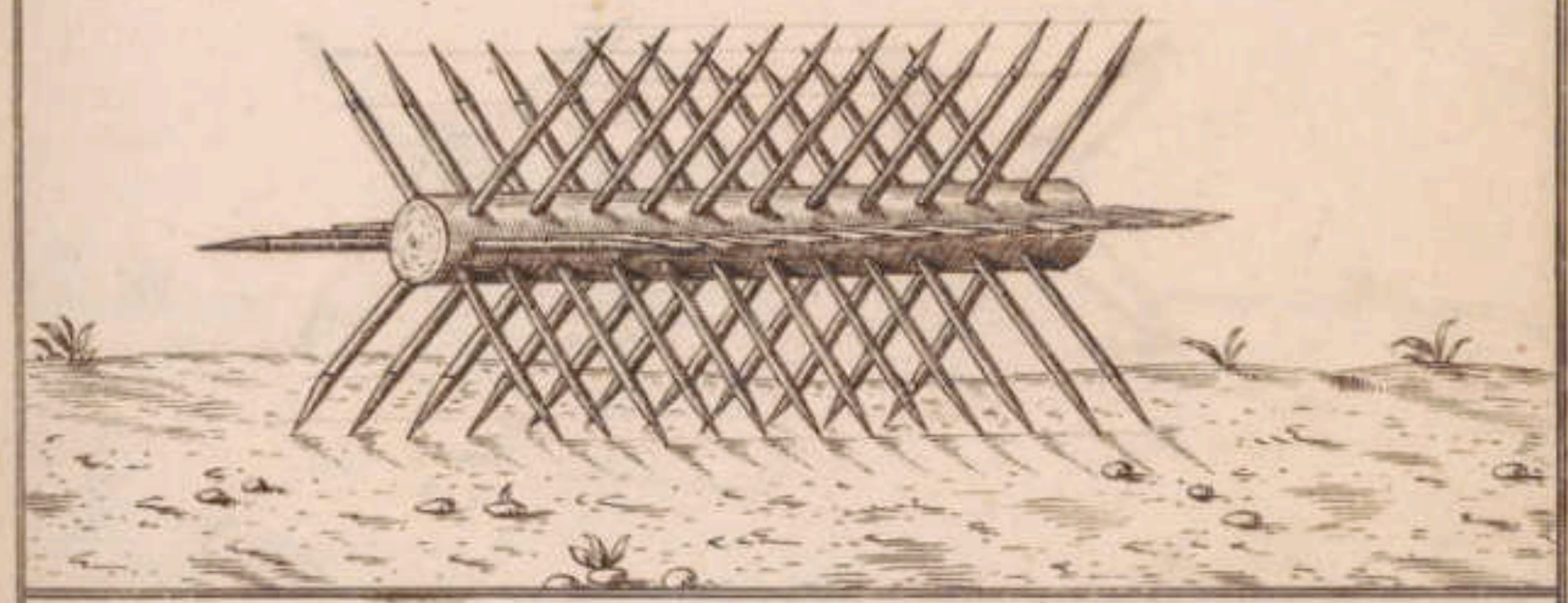
Palisade triangle armé de demy piques et pommes de fer



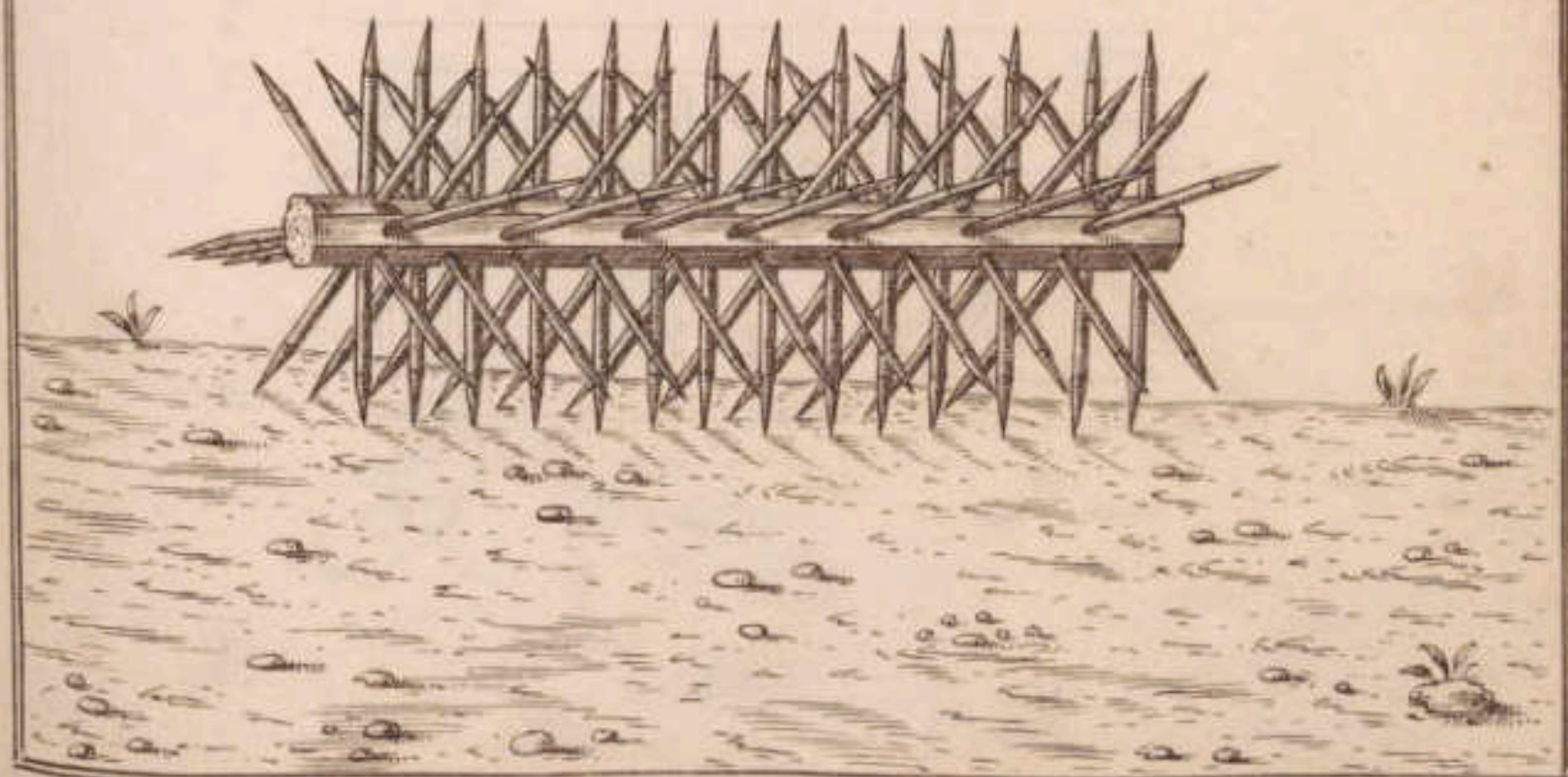
Palisade a quatre Angles armé de piques et pommes de fer



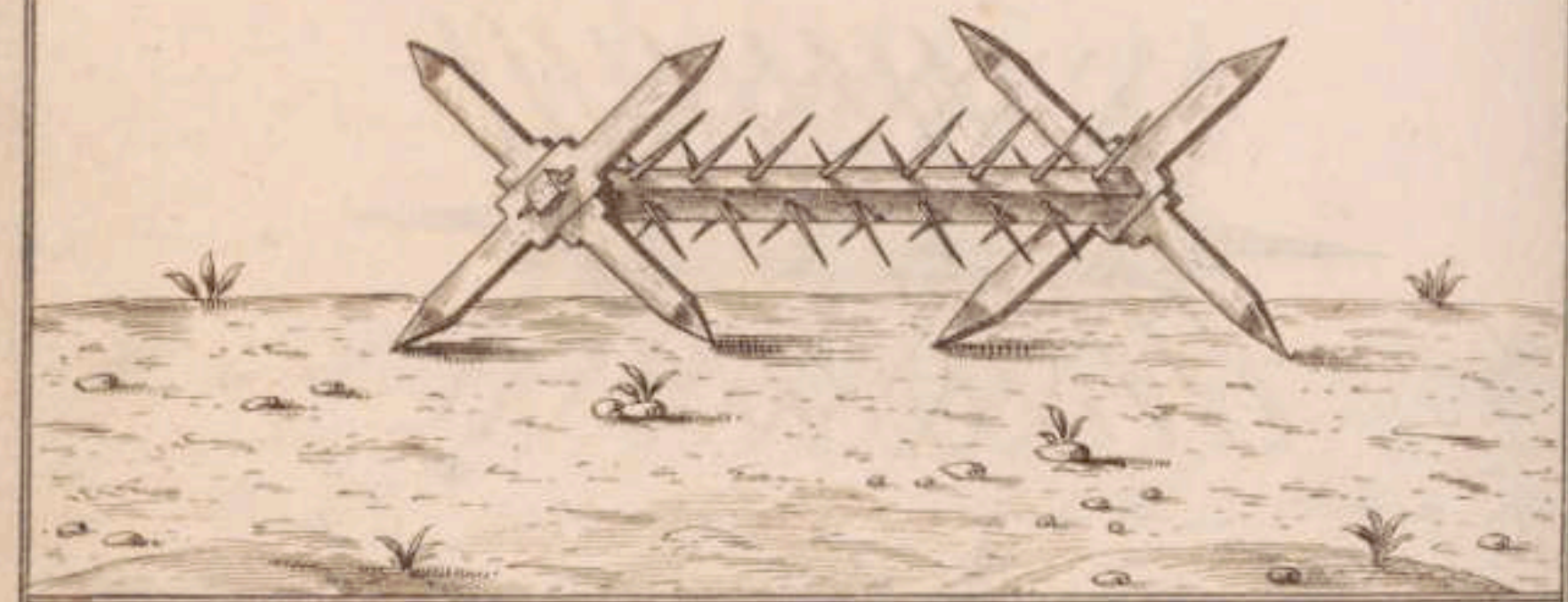
Palisade a six Angles armé de poignes et pommes de fer



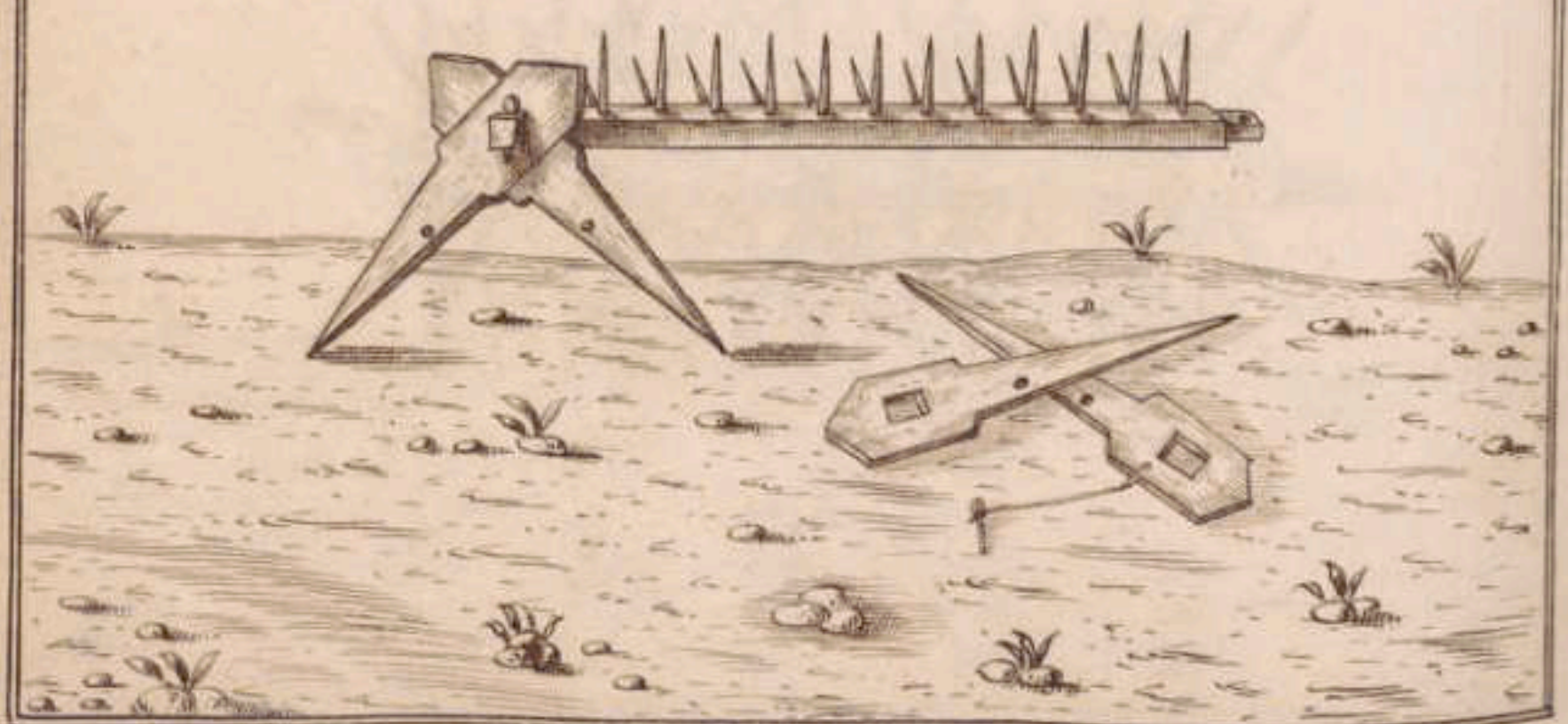
Palisade en confusion ou a huit Angles armé de poignes et pommes de fer. Le Equelles sont fort Utiles et bonnes pour contregarder les sorties d'un Retranchement ou Breche ou a dommes &.



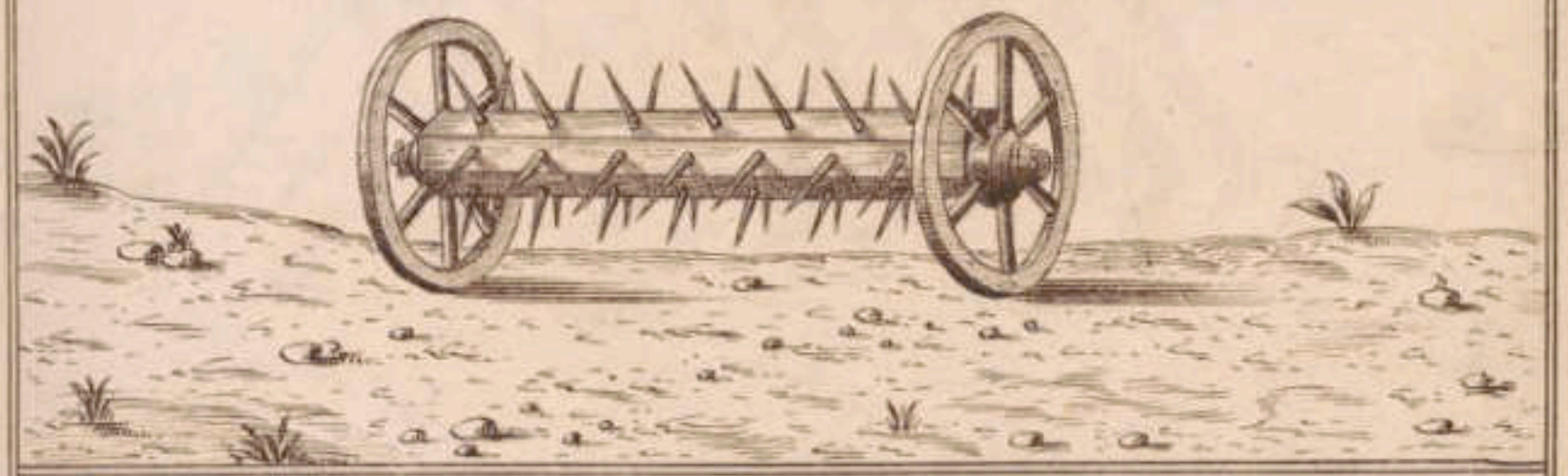
Palisades contre Cauallerie



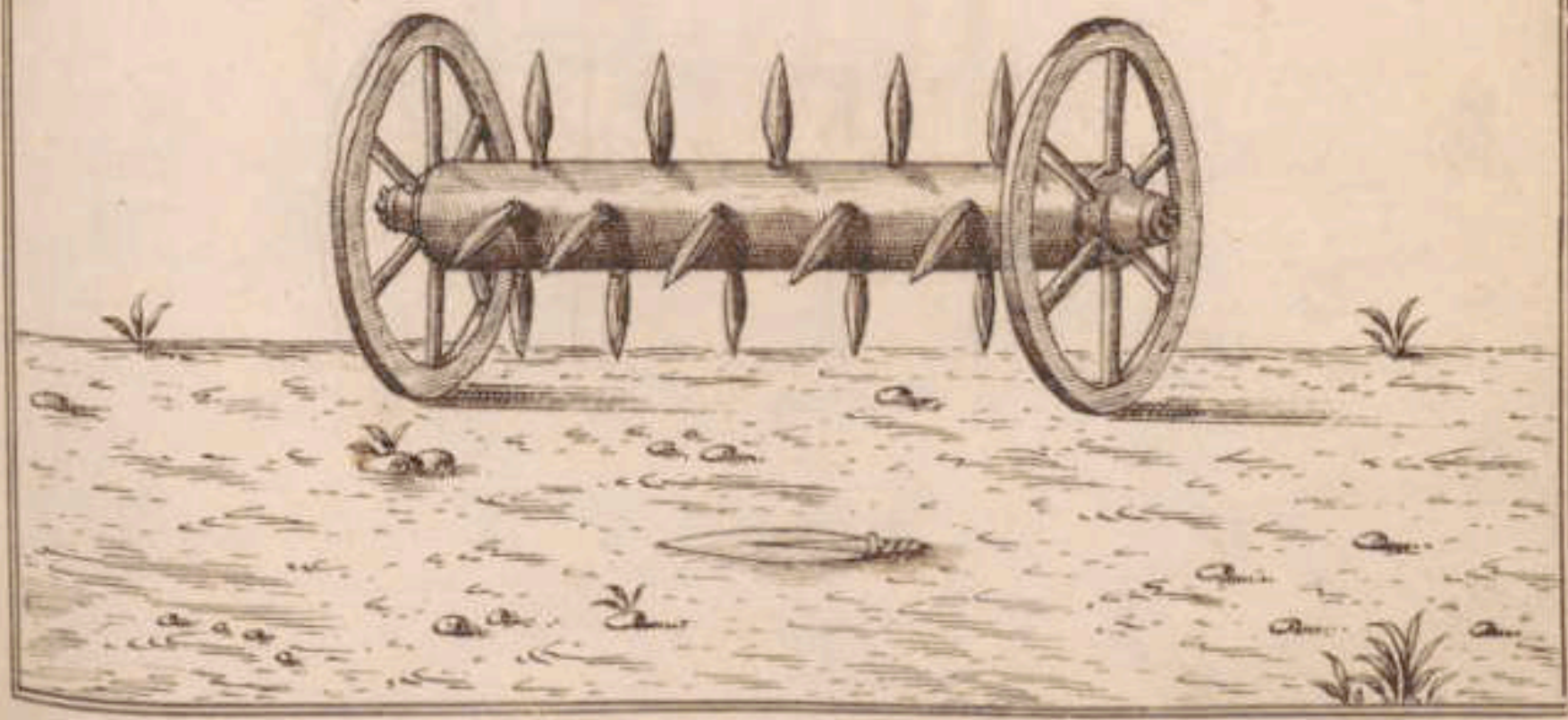
Palisades lesquelles sont este faictes contre la Cauallerie . allors qu'on alloit au secours d'Amiens



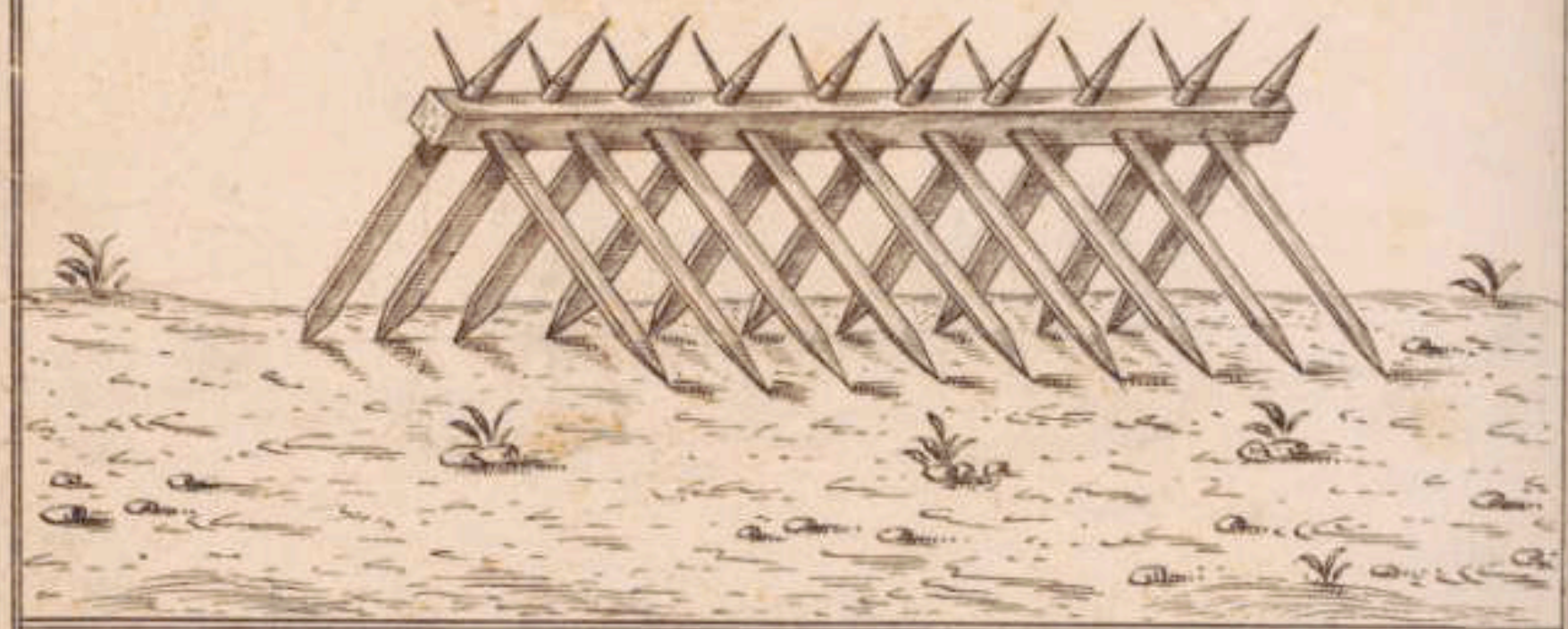
Sommier de bois armé de piccots pour jetter dessus breches



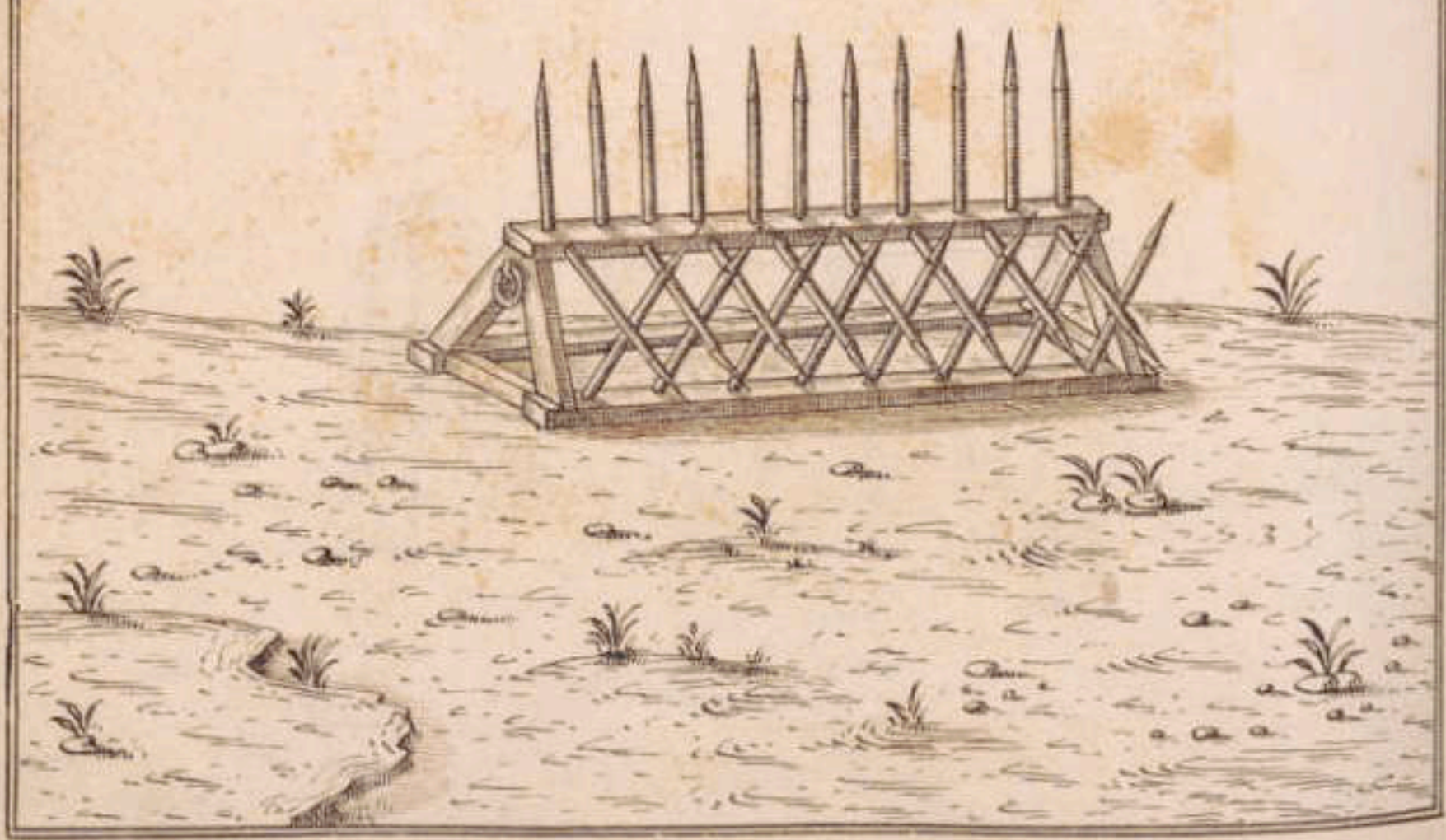
Autre sommier pour le mesme effect.



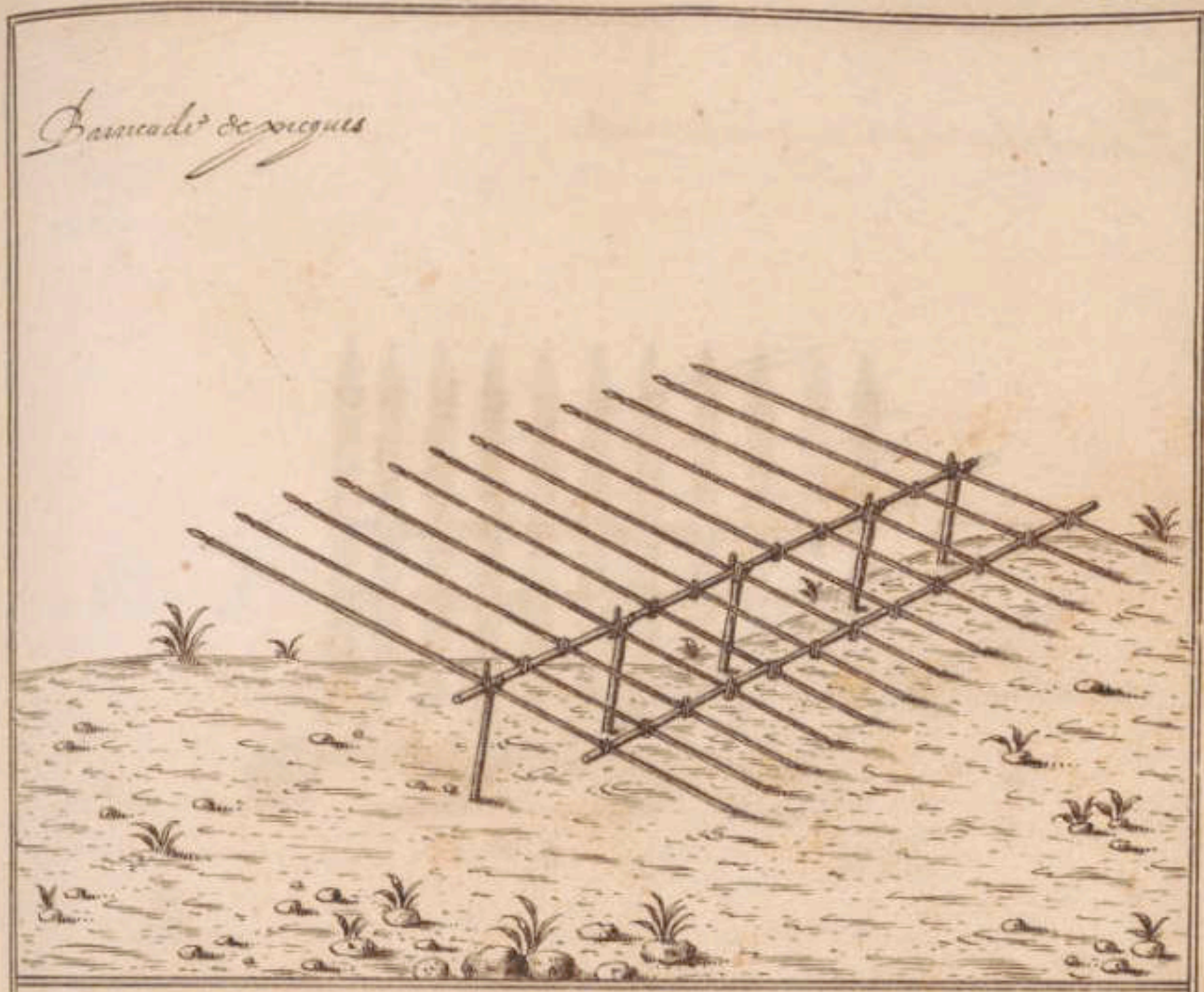
Palisades de quoy l'on se seruy au commencement du siege d'ostende



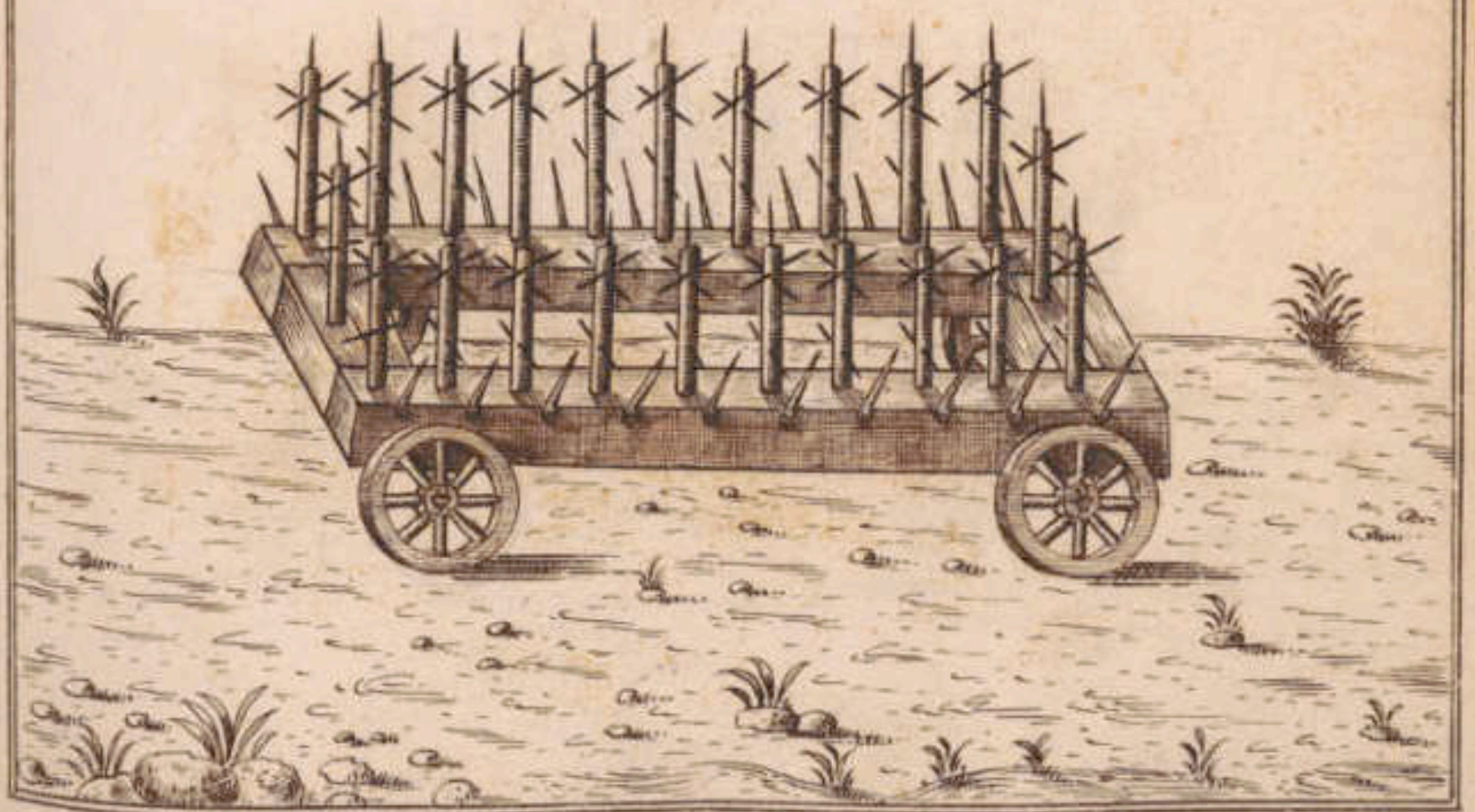
Palisades pour Jetter dans vne Brechie



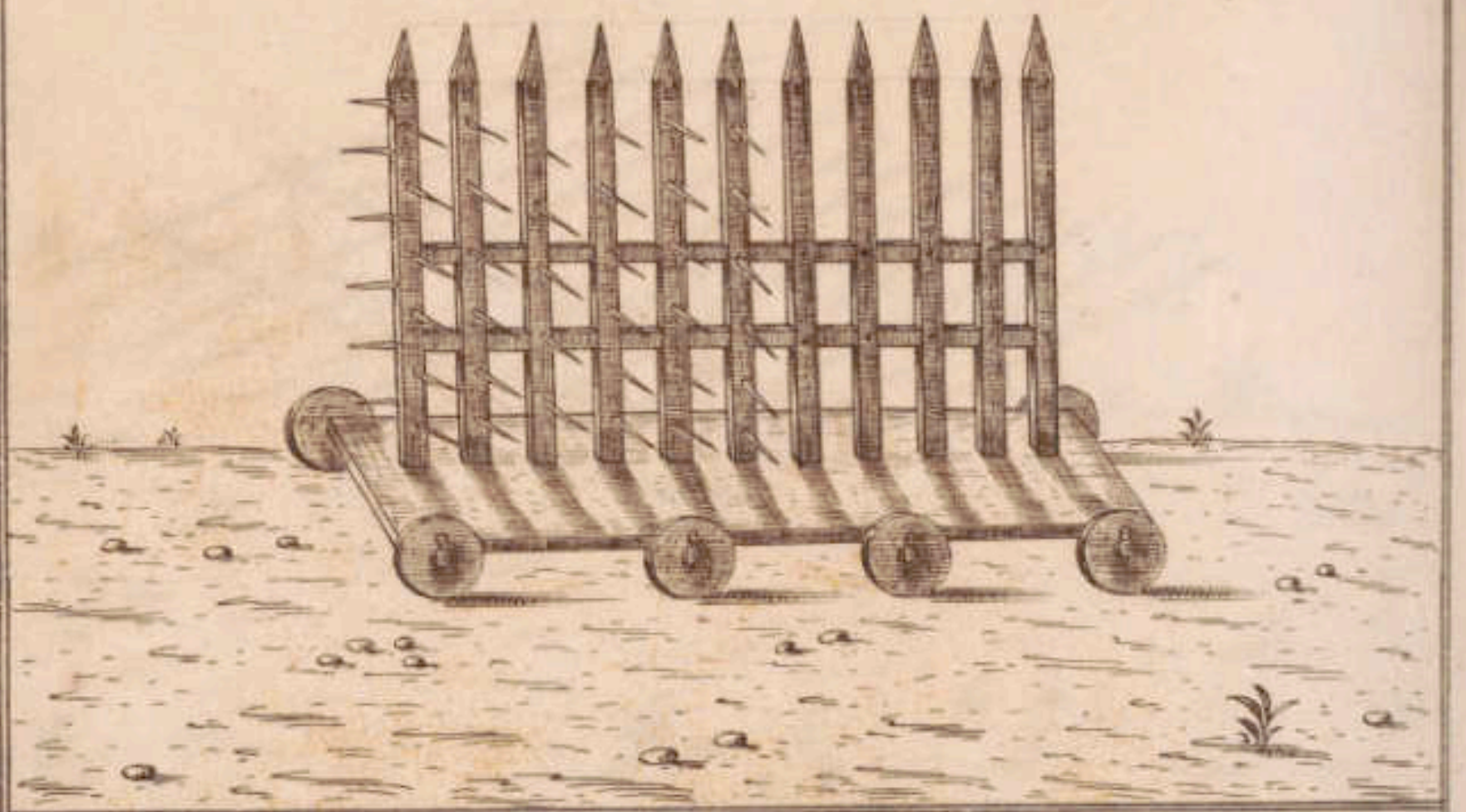
Barricade de pieques



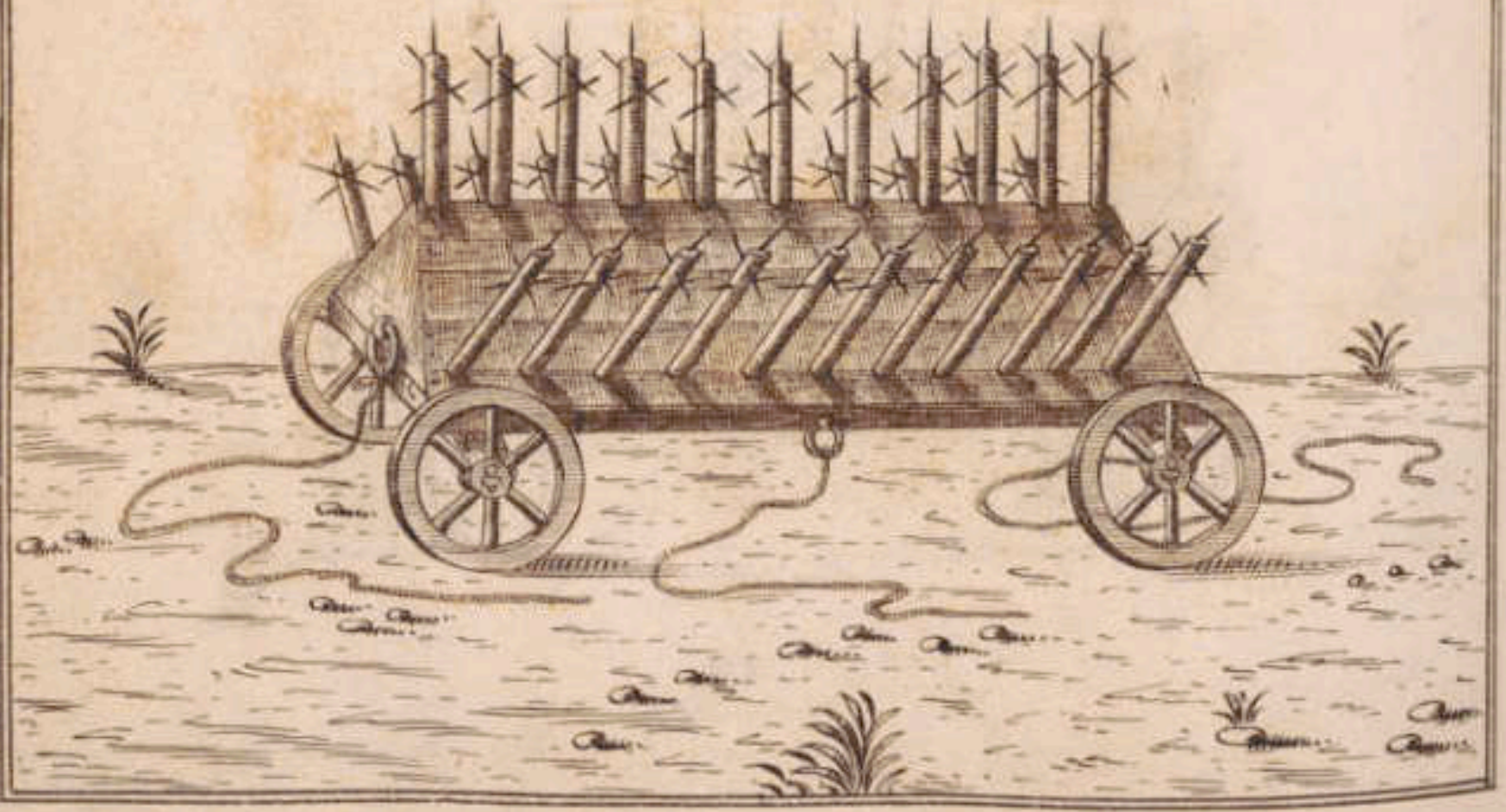
Palisade arme de picots de fer accommodé sur des roulleaux de bois laquelle est de grand effect



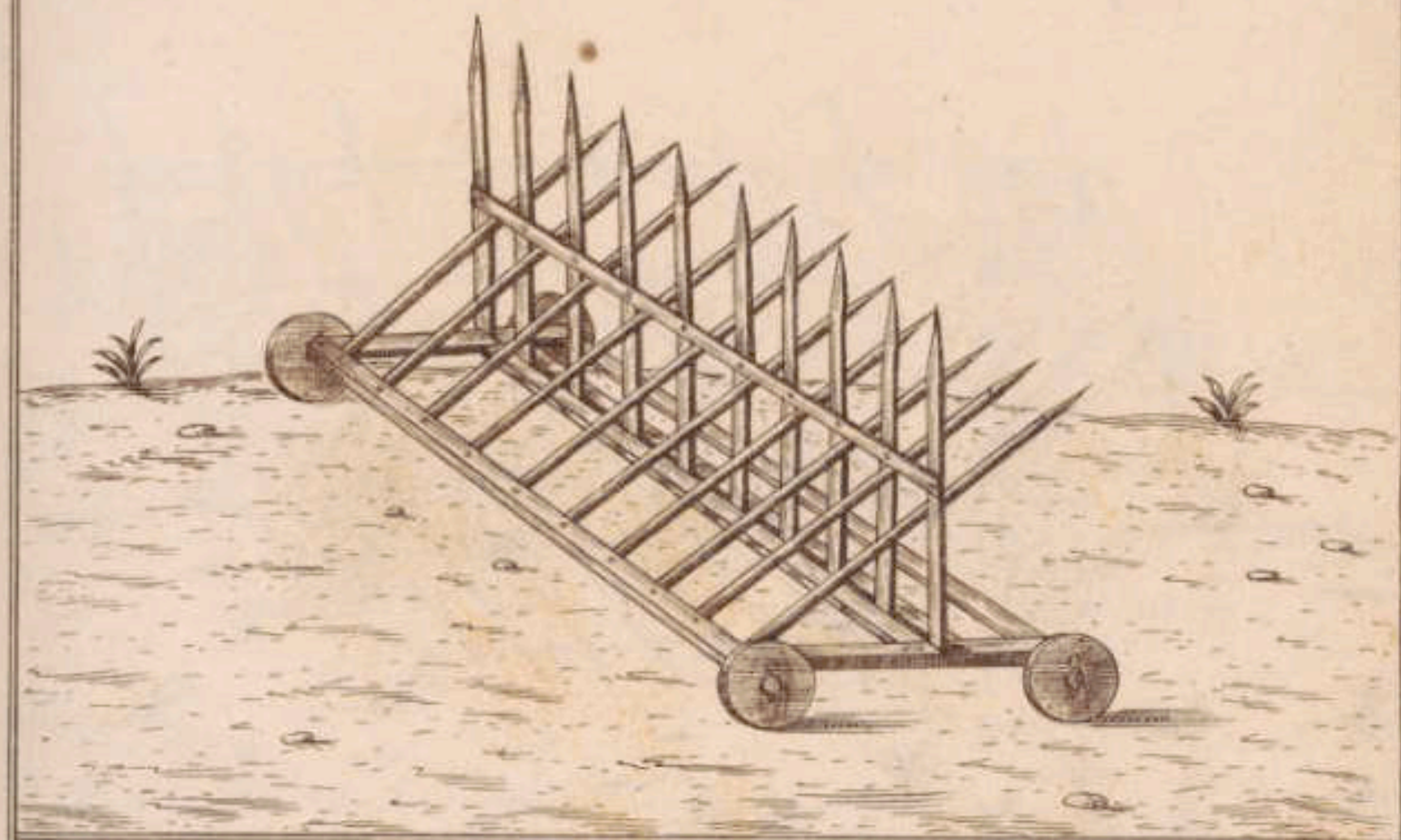
Palisade bon et propre pour barricades



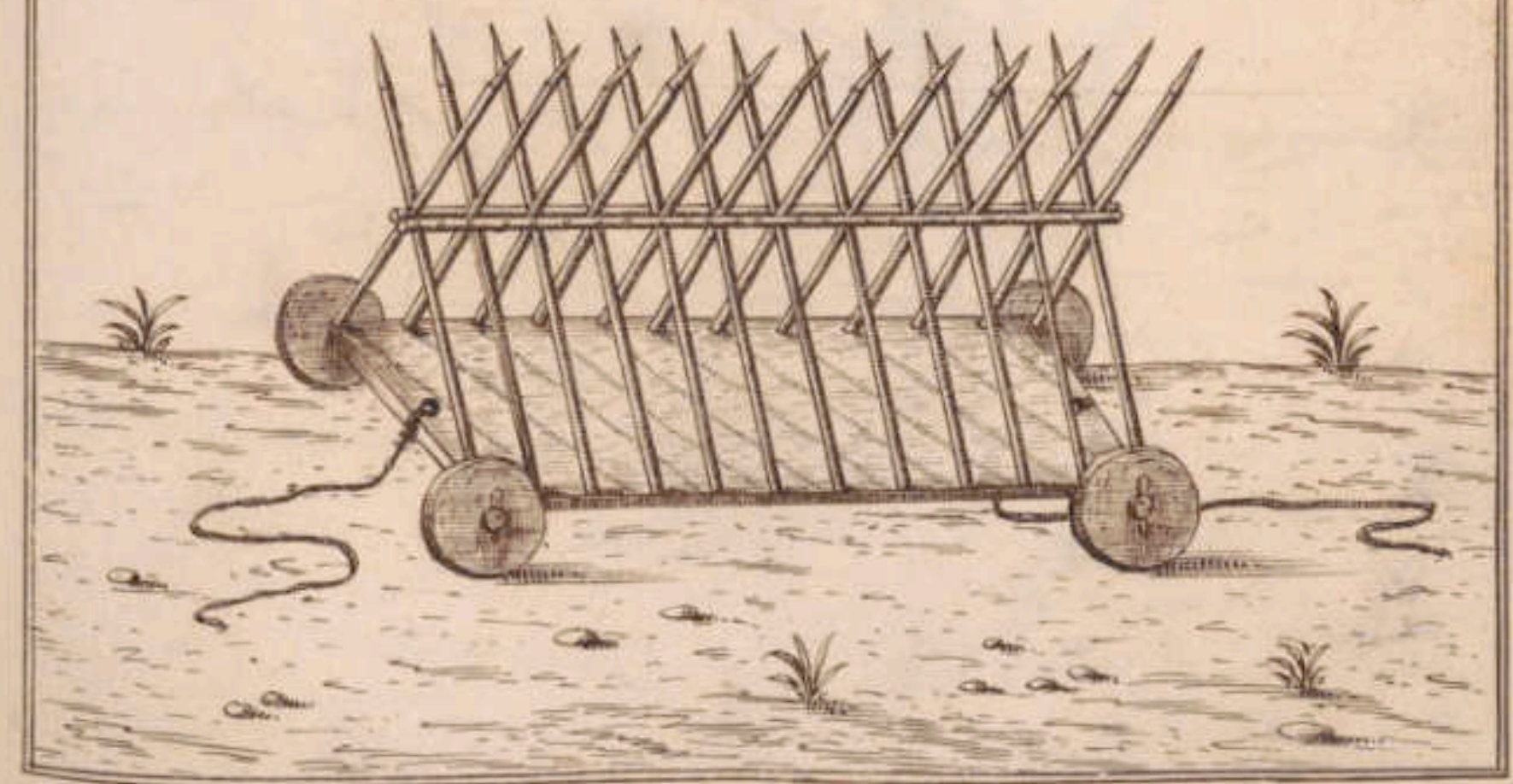
Palisade en pointes de fer pour le mesme effect.



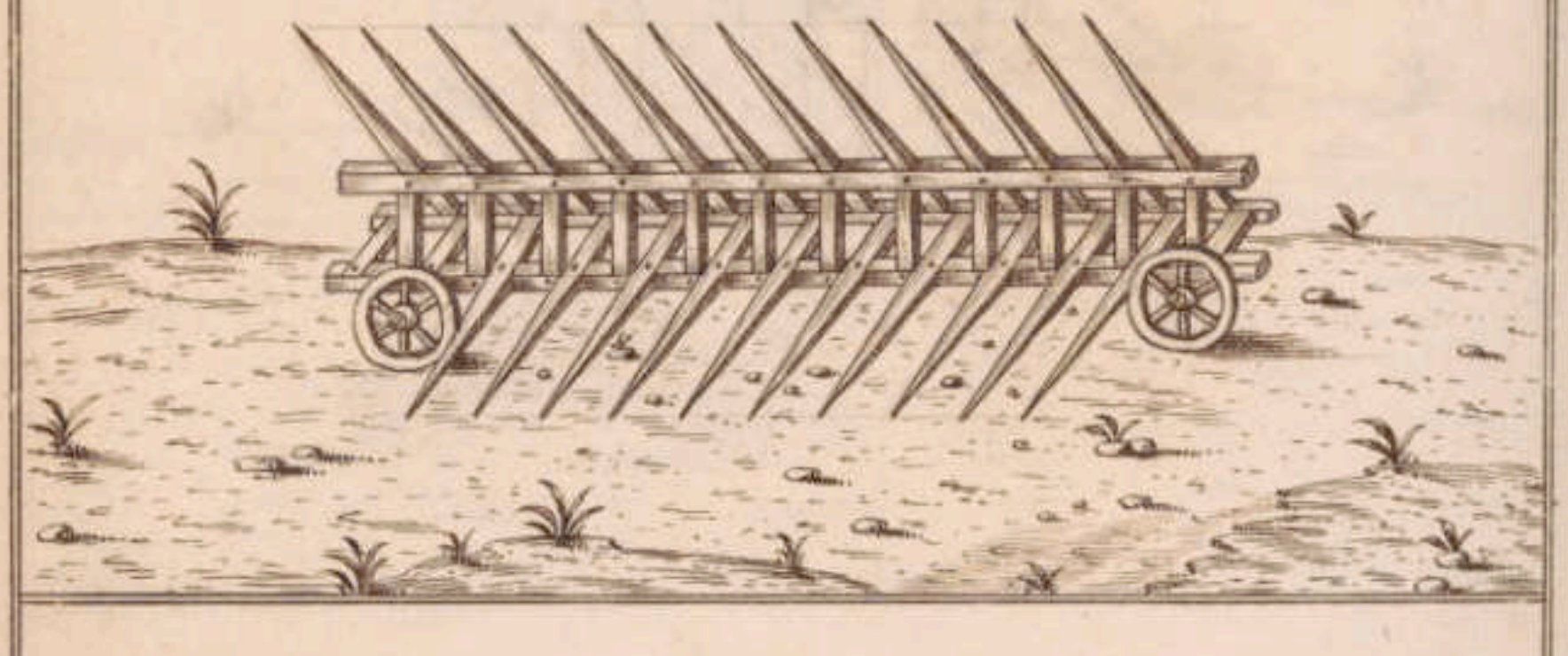
Palisade a une de poignes, laquelle est fort utile pour beaucoup des choses.



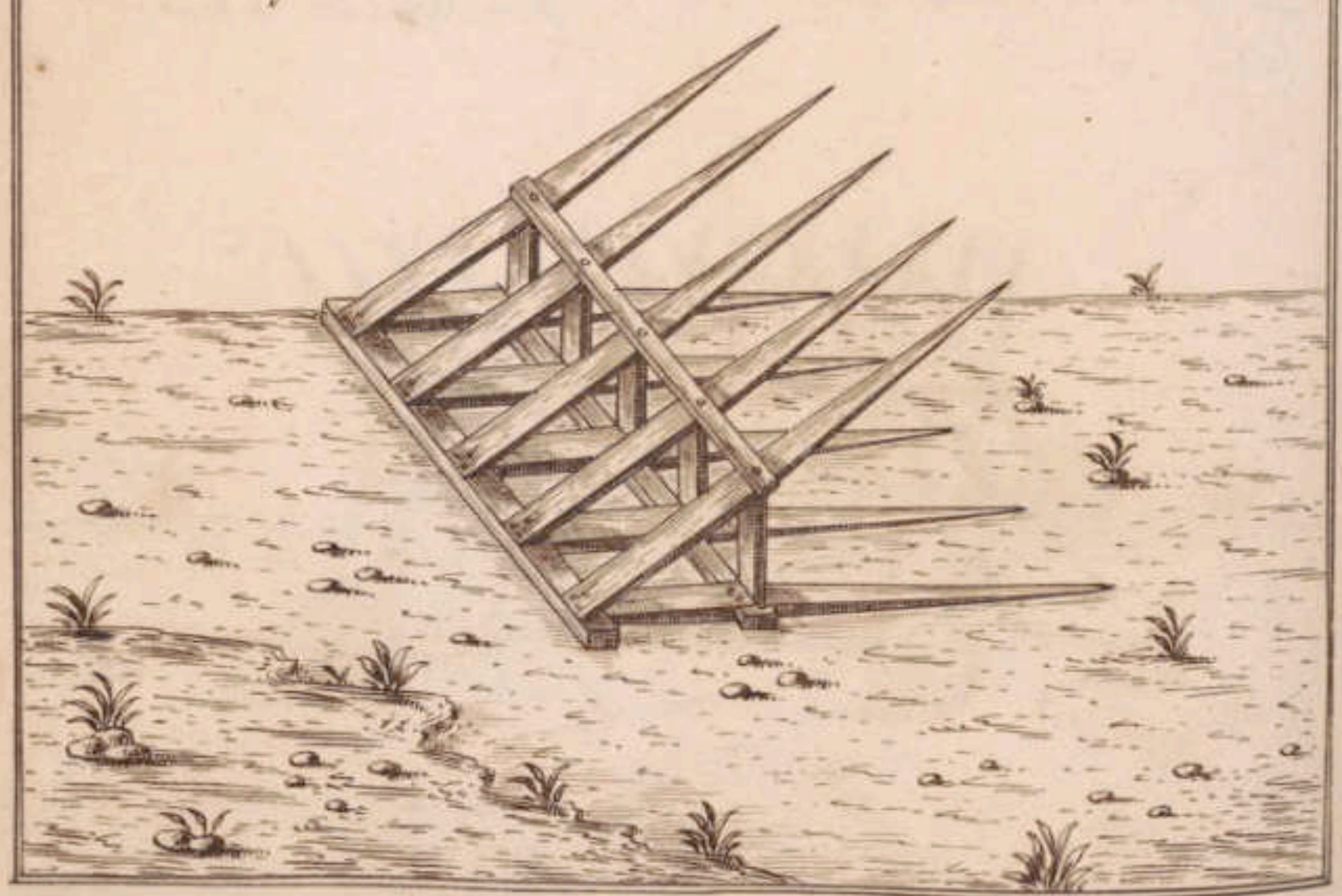
Palisade de poignes accommode en croix pour deffendre a deux costez



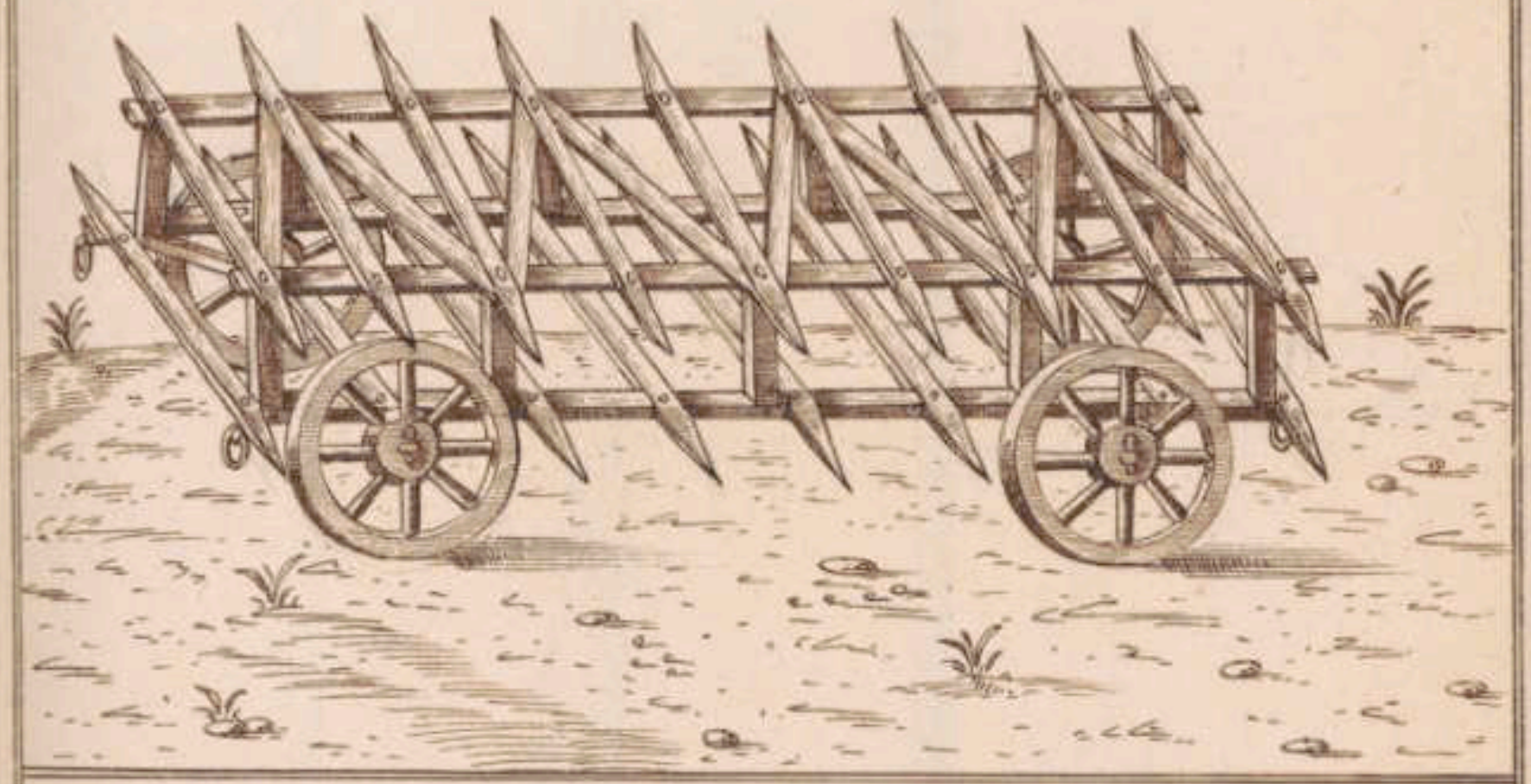
Palissade de pomotes de bois propre pour barricades et avancues



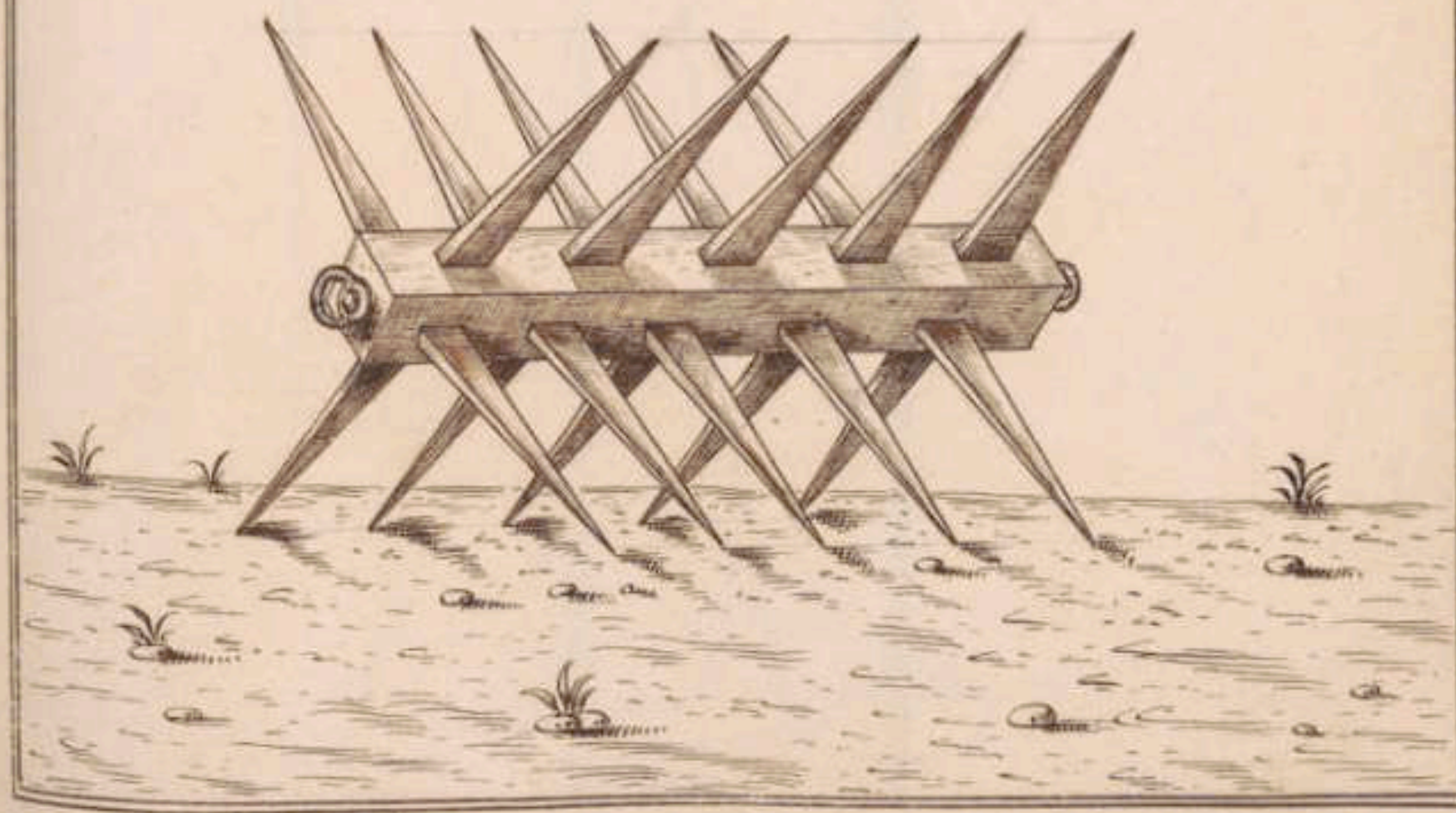
Palisades pour s'en servir en l'eau et sur terre.

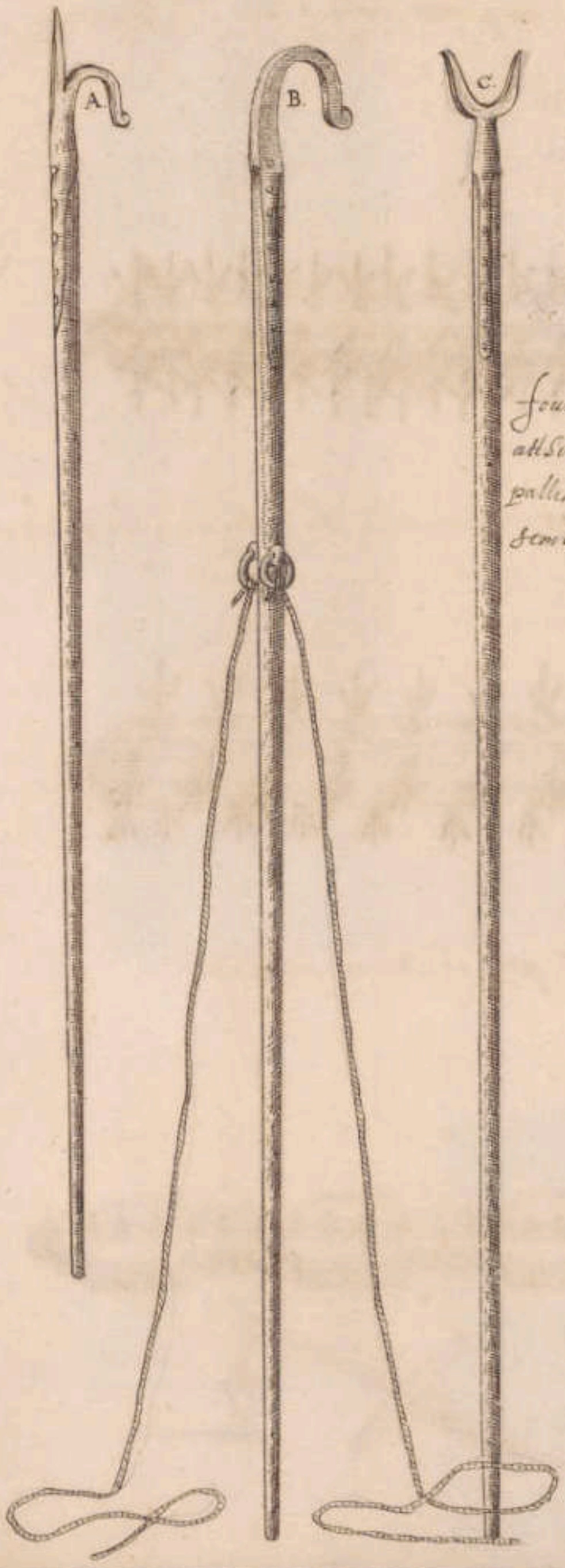


Barrot fait en Palissade



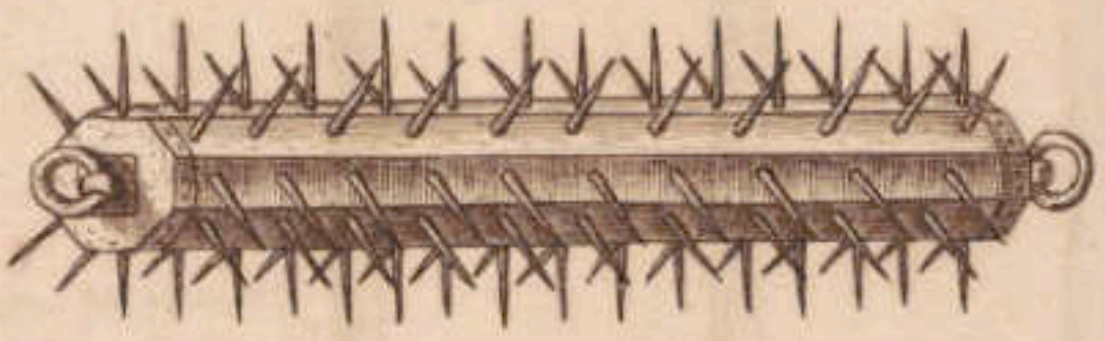
Palisade en pometes de Bois



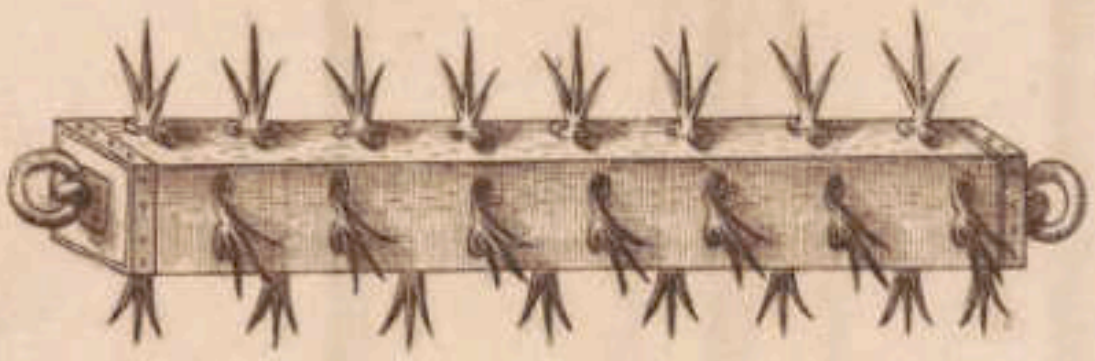


Fourche et crochet pour attirer et remuer pallissades et aultres choses semblables &.

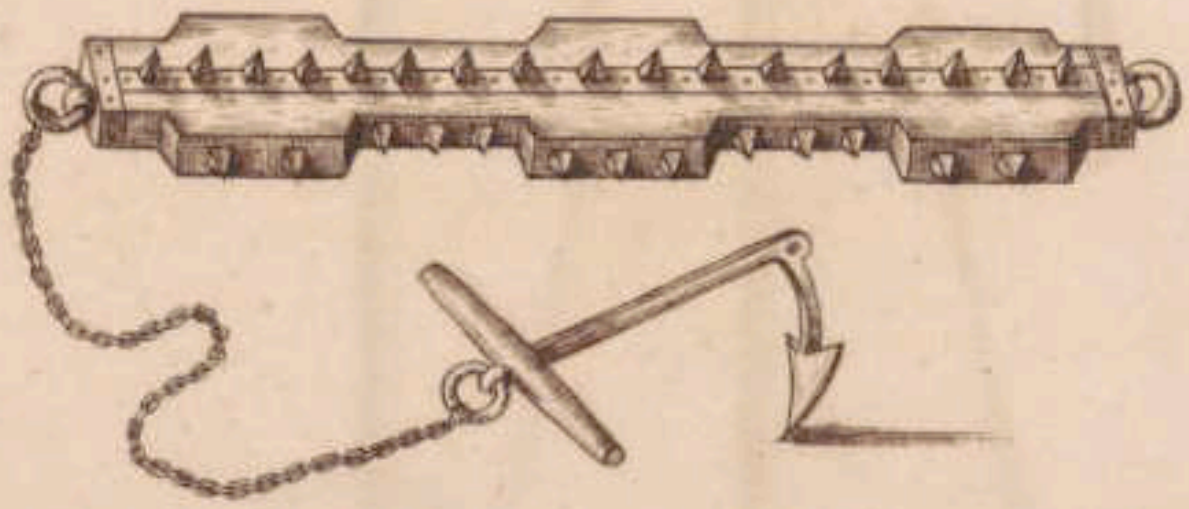
Mast de sapin armé de piccots de fer pour s'en servir sur l'eau



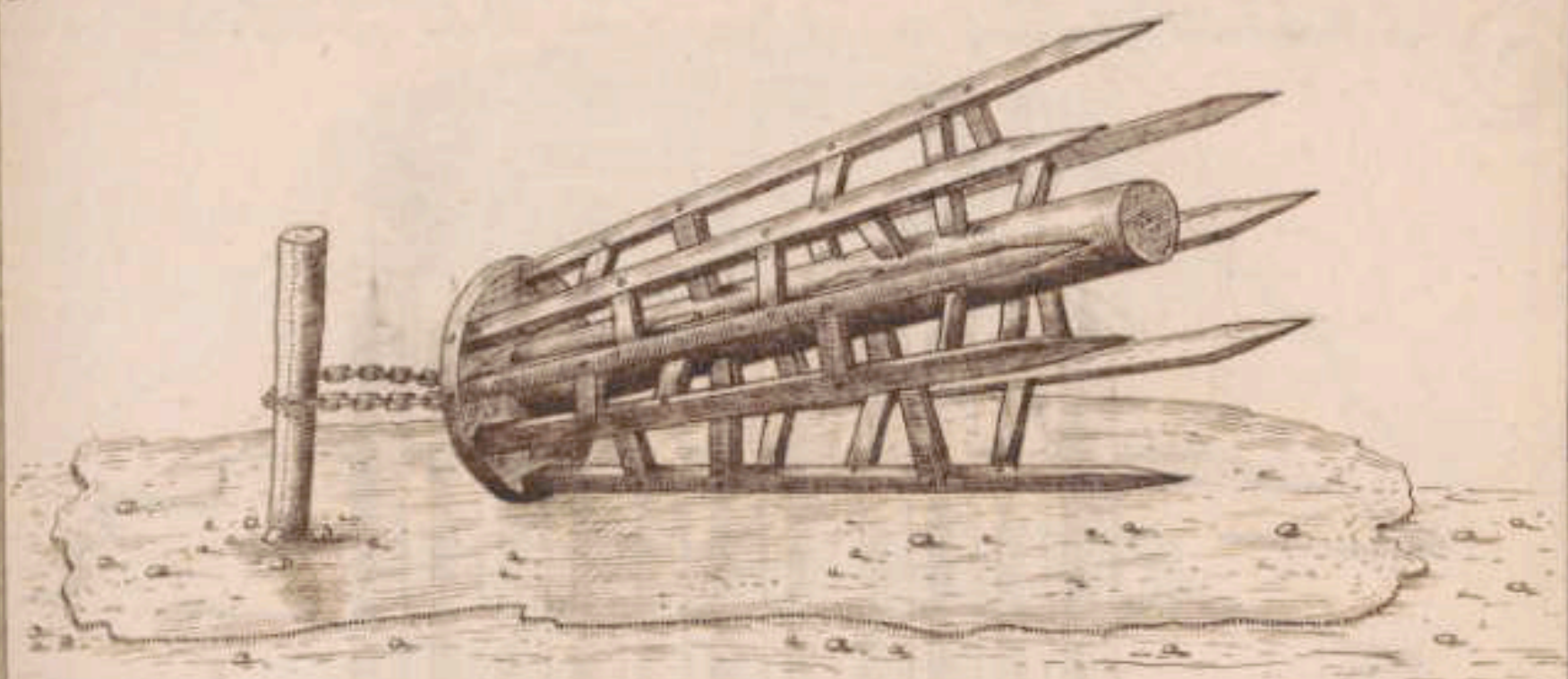
Sonnette de Bois Legier armé de Cette Sorte pour s'en servir sur l'eau



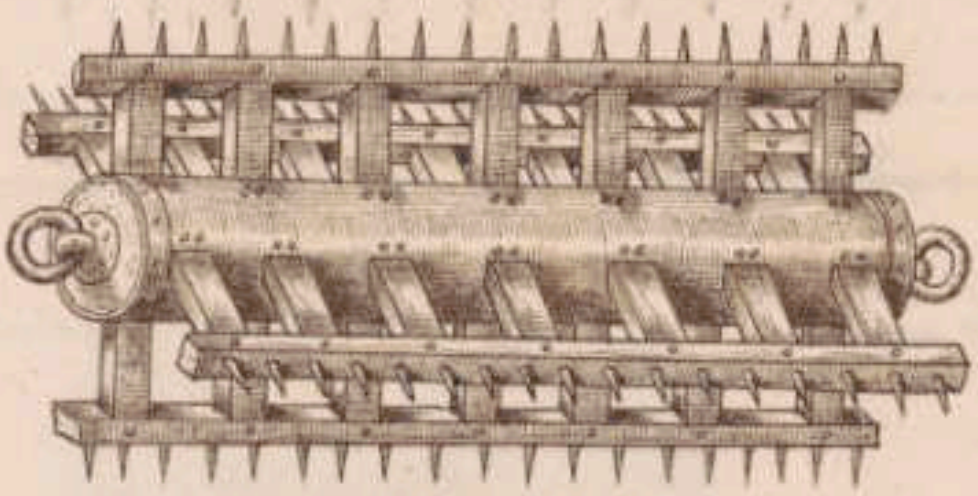
Autre Instrument pour s'en servir sur l'eau.



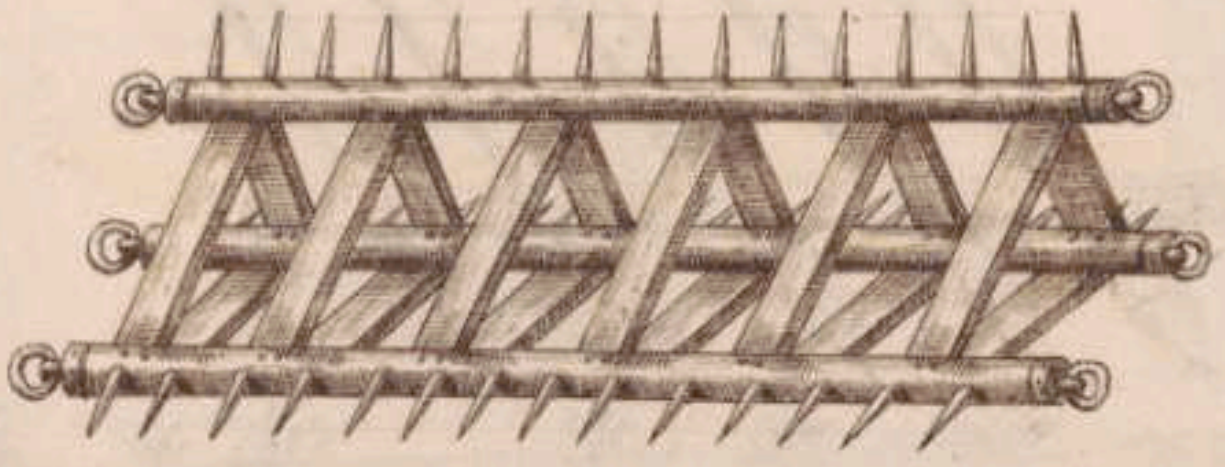
Invention pour Jetter dans L'eau



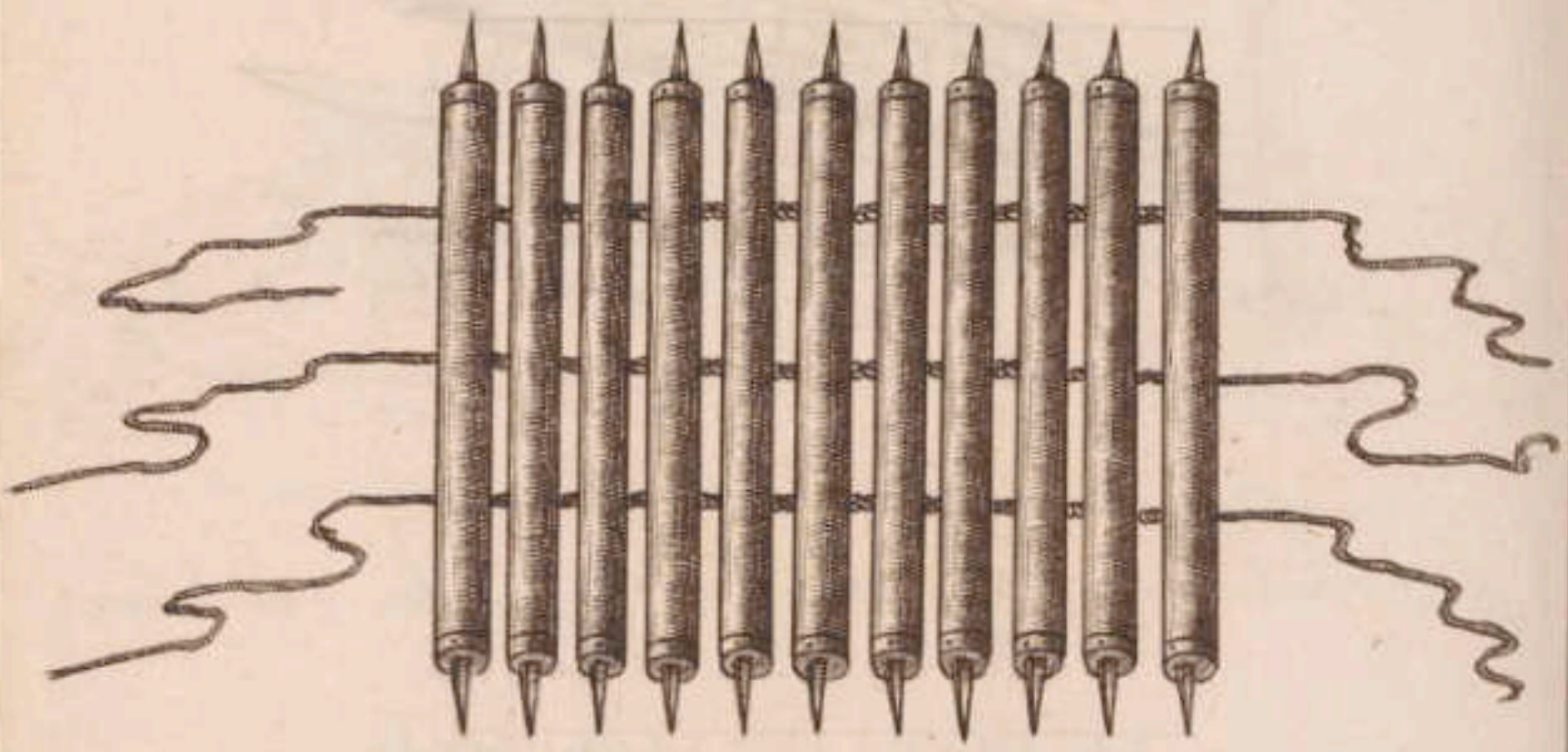
Autre Instrument de sapin armé de pieuts pour Jetter sur L'eau



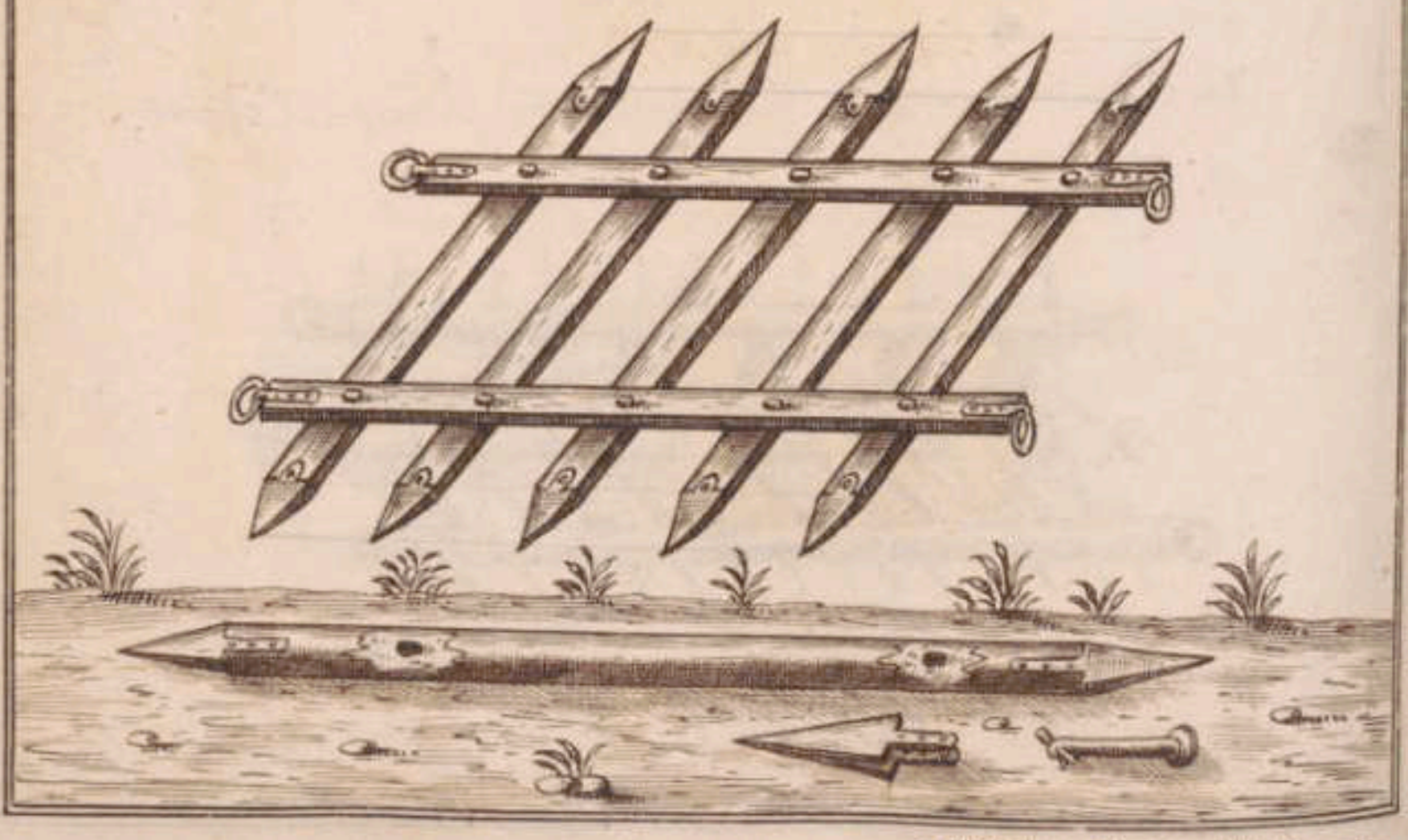
Instrument dentelé de sapin pour le même effect..



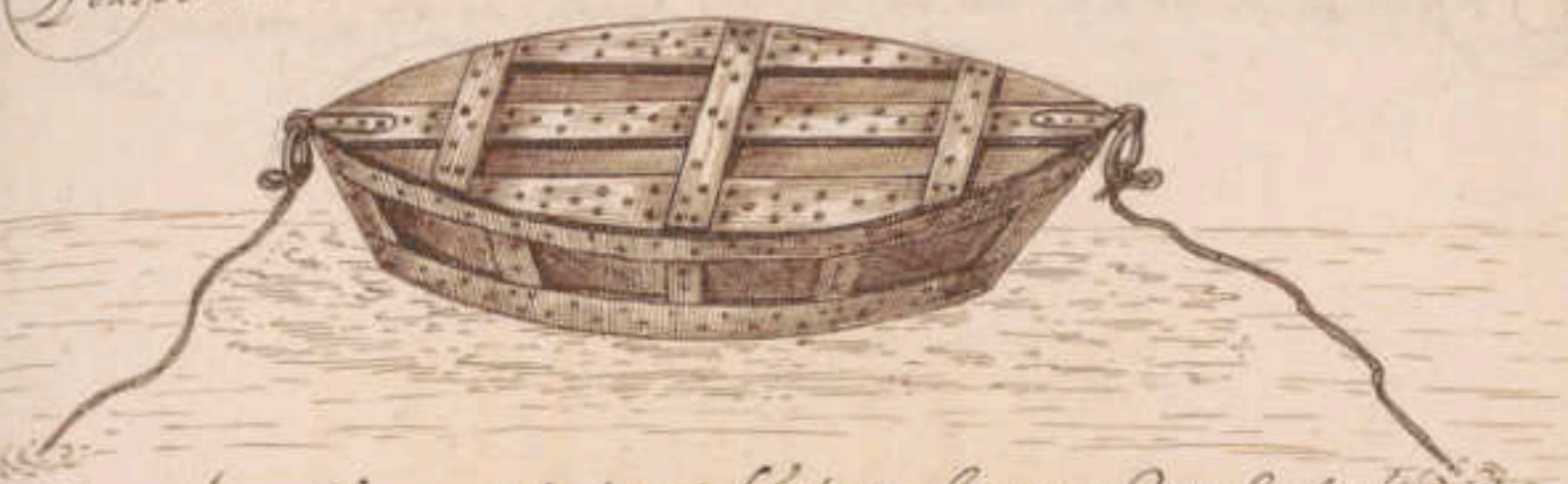
Plotte simple faict des pièces de sapin ferme de poïntes des yfers par les deux bouts et laßez ou liez ès mes trous Bides ou Cheskes.



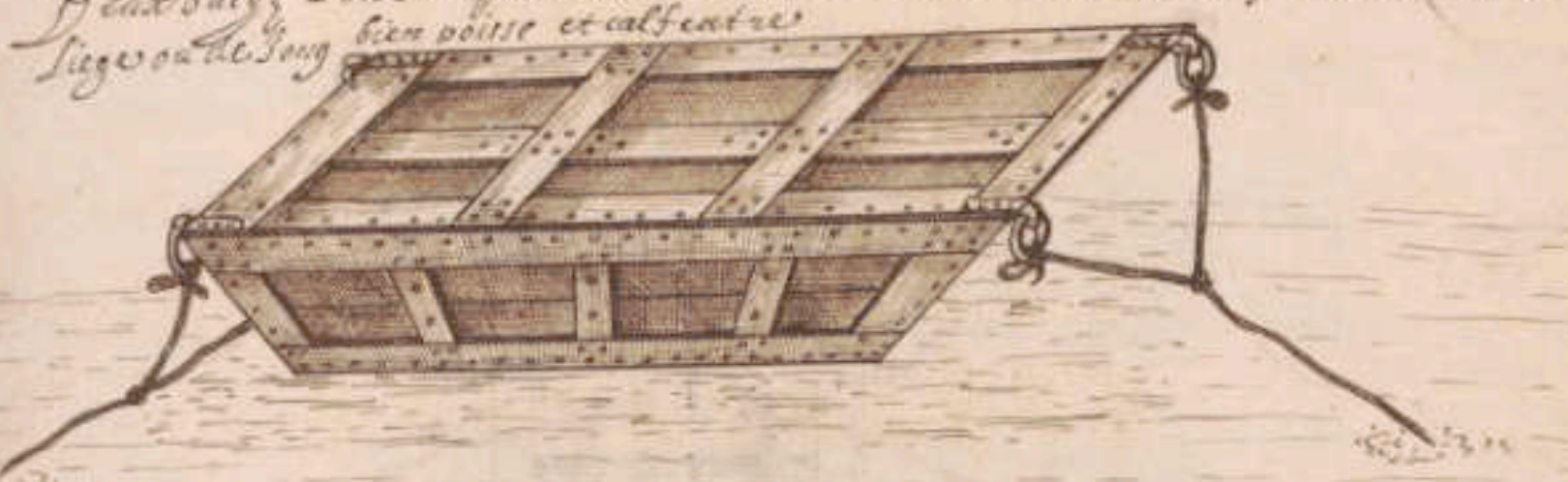
Plottes de laquelle l'on s'en a seruy deuant ostendis



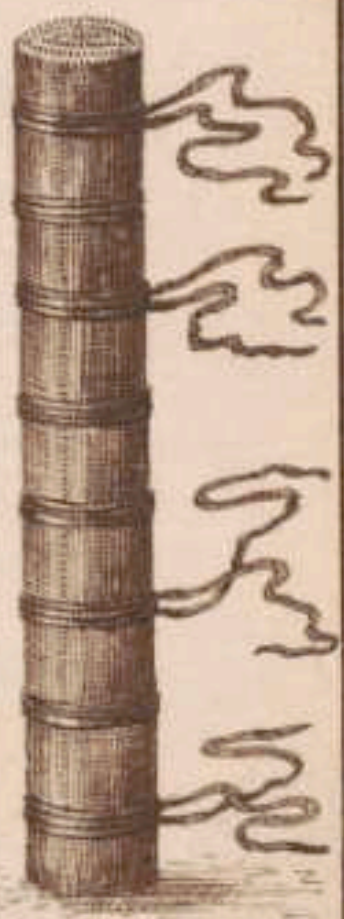
Instrumens pour soustenir flottes ponts ou autres Inventions de quoy s'en se peult seruir sur l'eau,



Deux barges l'une en poincte et l'autre en carrure remply de bois de liege ou de Jong bien poisse et calfeutre



Instrumens pour le mesme effect que la precedente

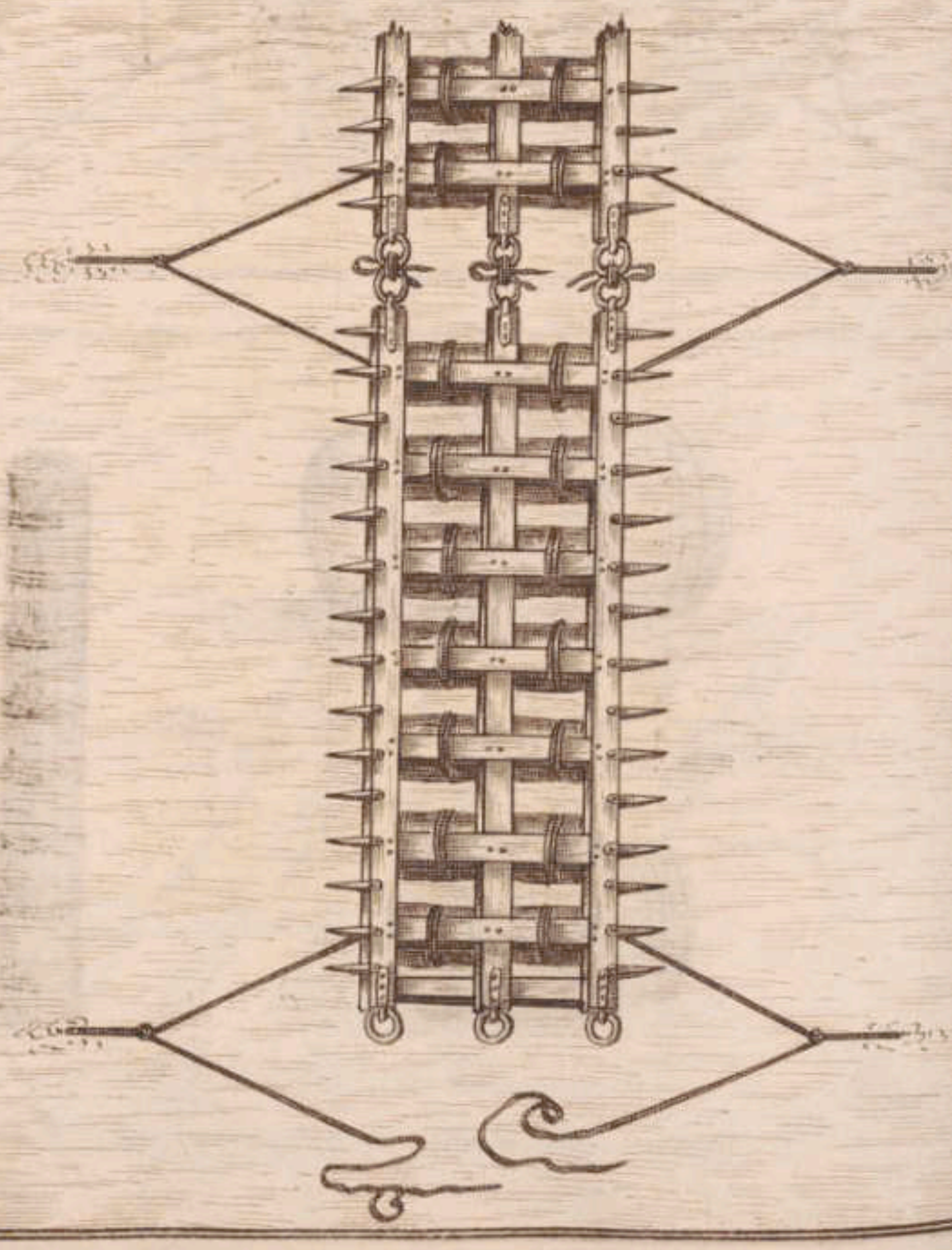


Ung tonneau grand et pois de trois doigz de bois bandes de cercles de fer bien poisse et accommodé par de bois affin que l'eau n'y a point de prise.

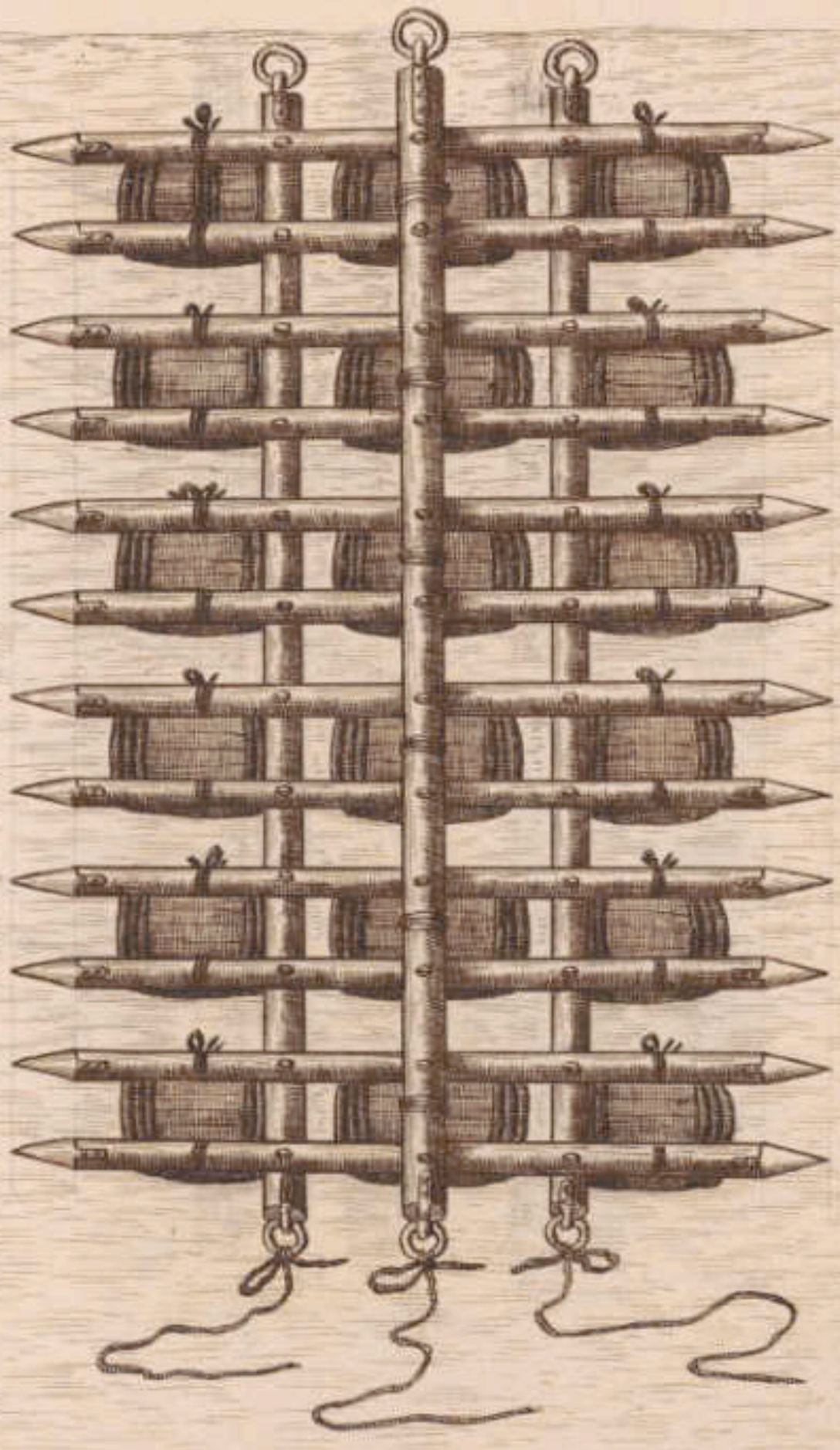
Petit tonneau ordinaire bandé de cercles de bois et bien poisse

Bottes de Jong bien liez, lesquelles sont propres et utiles pour s'en seruir sur l'eau mesmes pour empescher qu'elz n'attirent l'eau, l'on le peult couurir de toiles cirees.

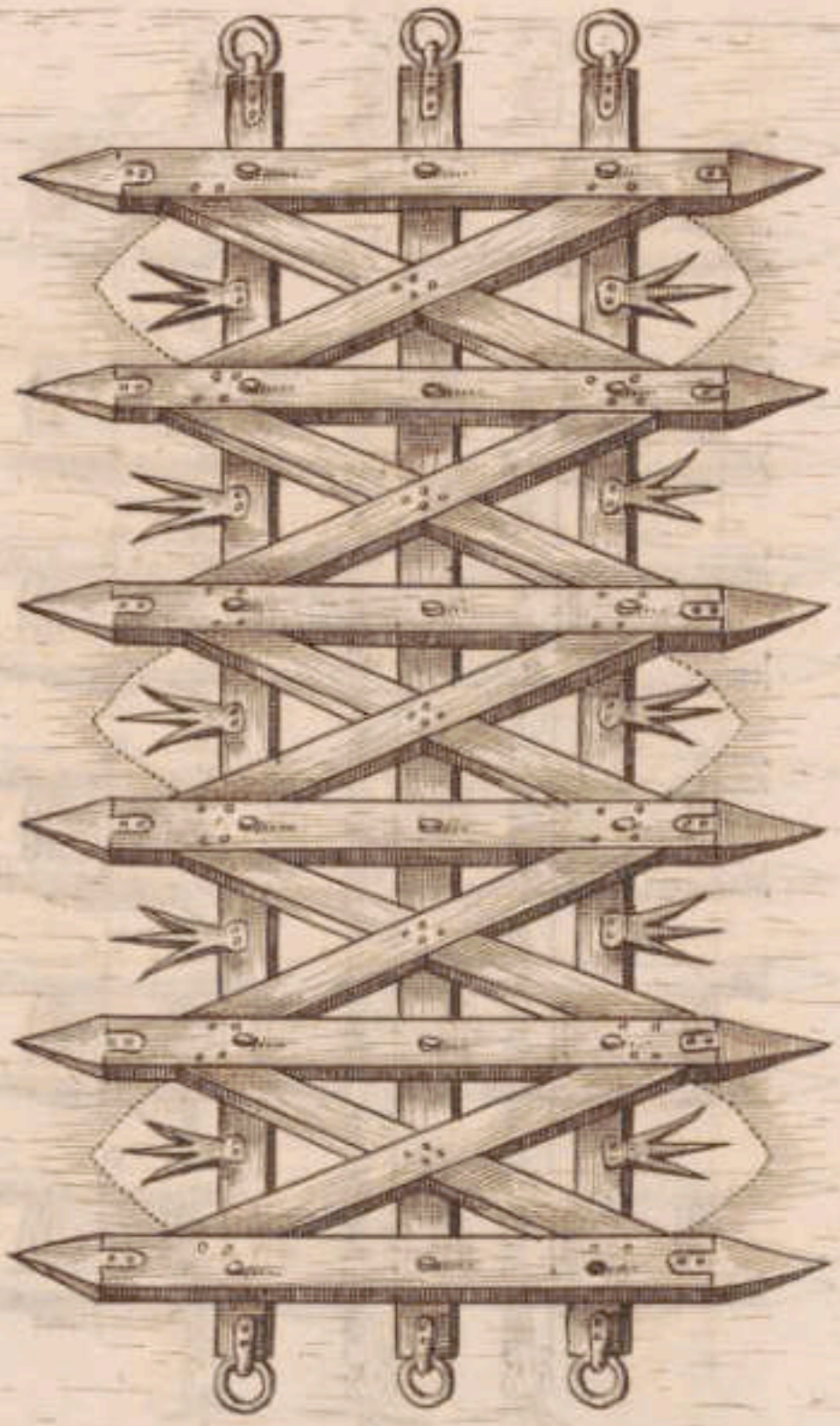
Plotte simplement monté sur des bottes de Berg, le quoy d'asgues
Stronc doibt tenir de Longeur 20 pieds, et de Largeur 5 pieds



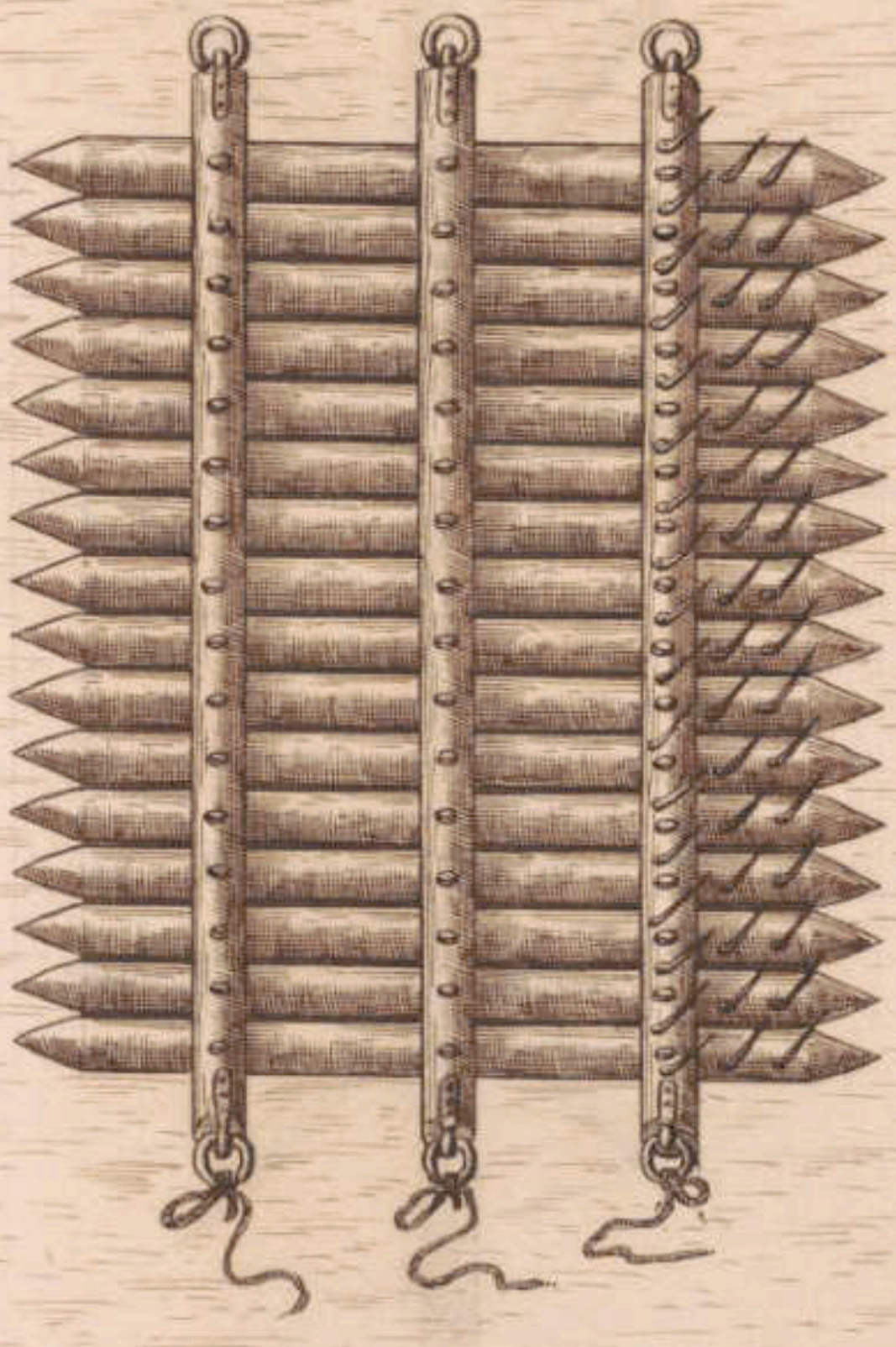
Plotte de mattes de Sapin monte sur des tonneaux poisses como
Bey va dessegne. de quoy chasque trouee doit tenir de longeur
30 piedz Et de largeur 15 piedz.



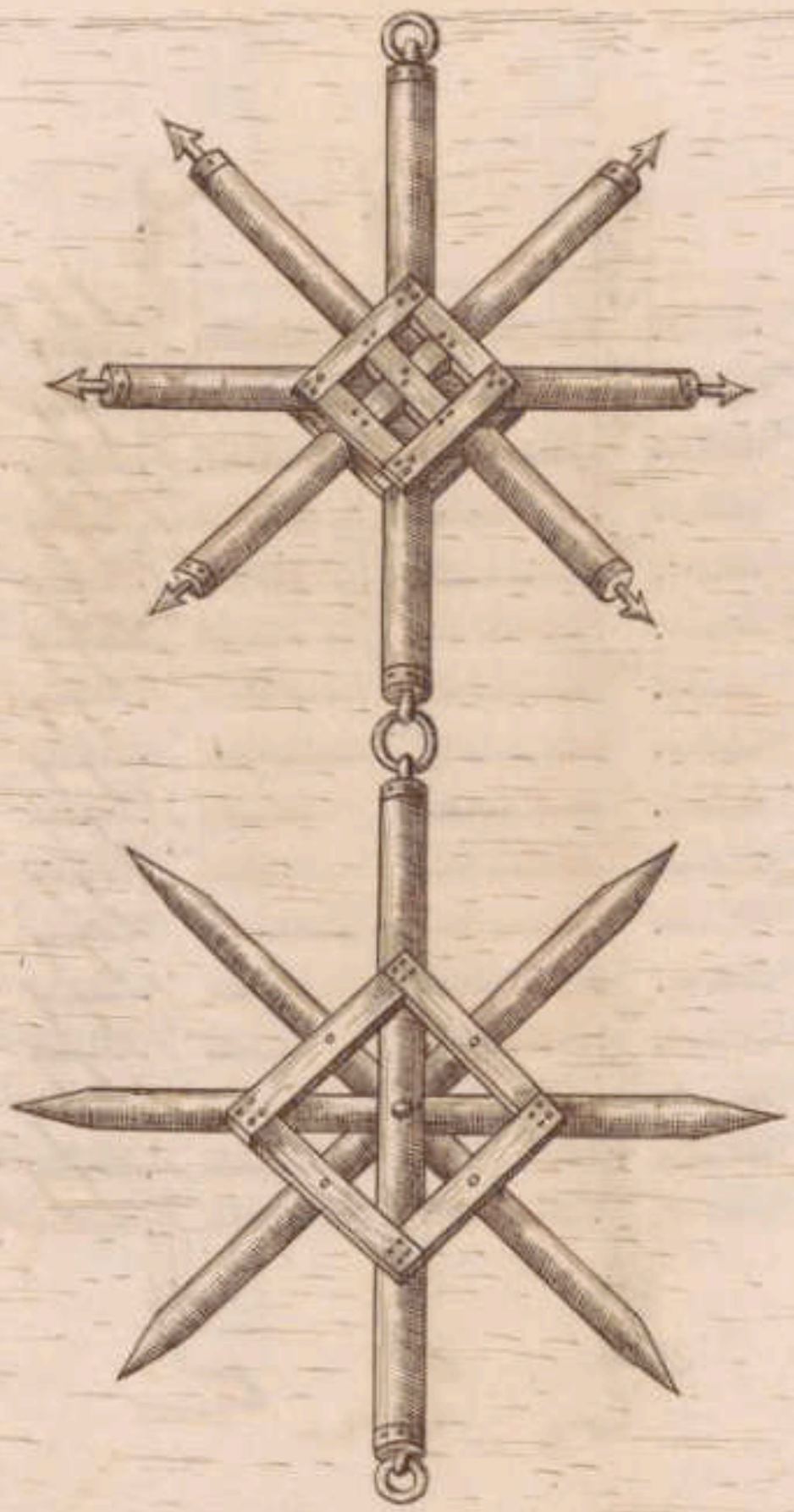
Flotte pour contregarder passaiges en courses des Riuieres, lequel doibt tenir chaque trouue de Longueur 30 pieds et de largeur 15 pieds mesmes en temps de necessite on peult Cetter des planches pour pouoir y passer des gens.



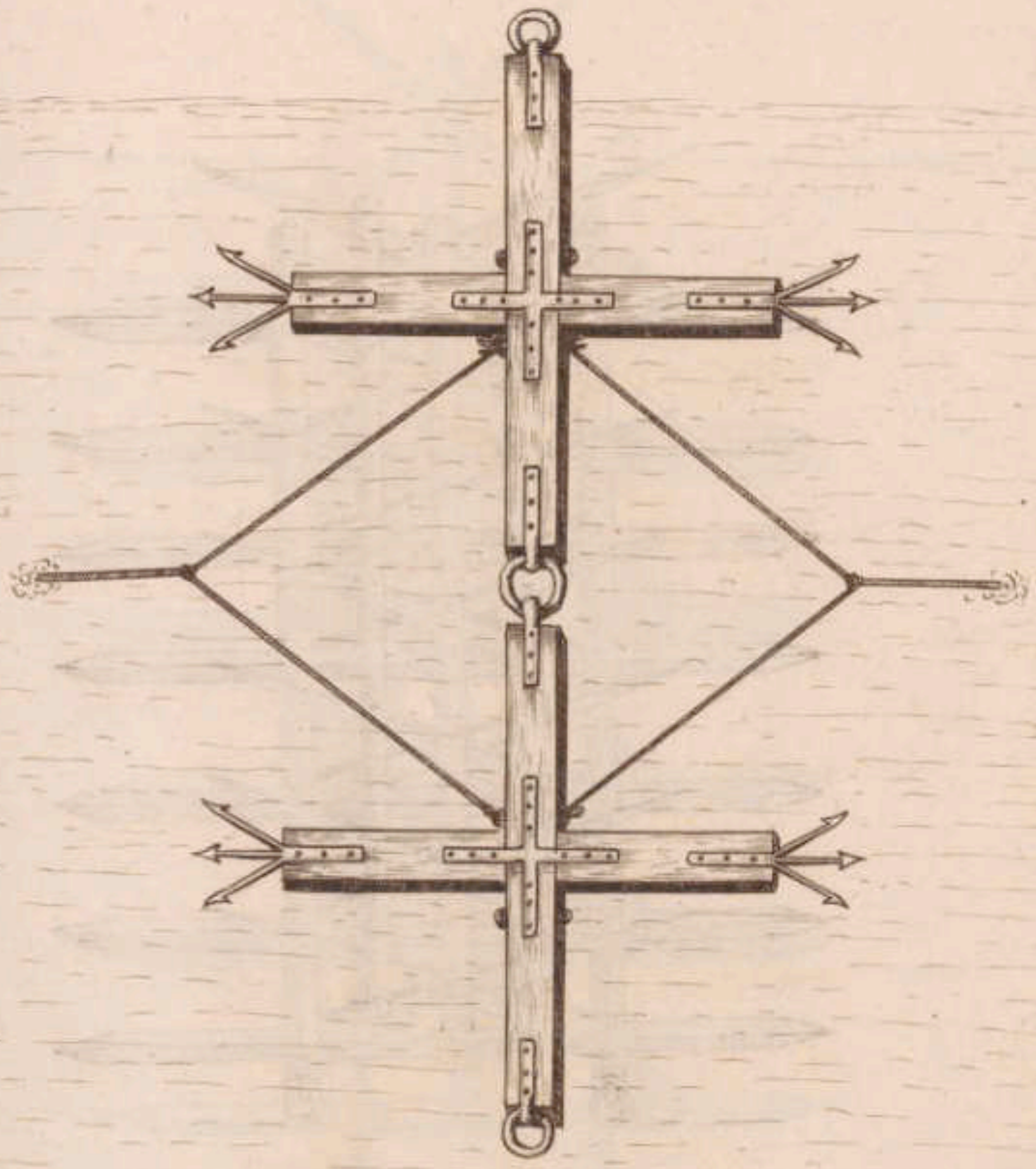
Flotte de quoy Marguetrouel doibt tenir de longeur 18, ou 20 pieds et de largeur 10 pieds, lequel doibt estre fault de Bois de sappin et aymo du costé endehors de picots de fer, affin qu'on y monte dessus. Sur laquelle flotte son veult librement passer dessus sans aucun danger.,



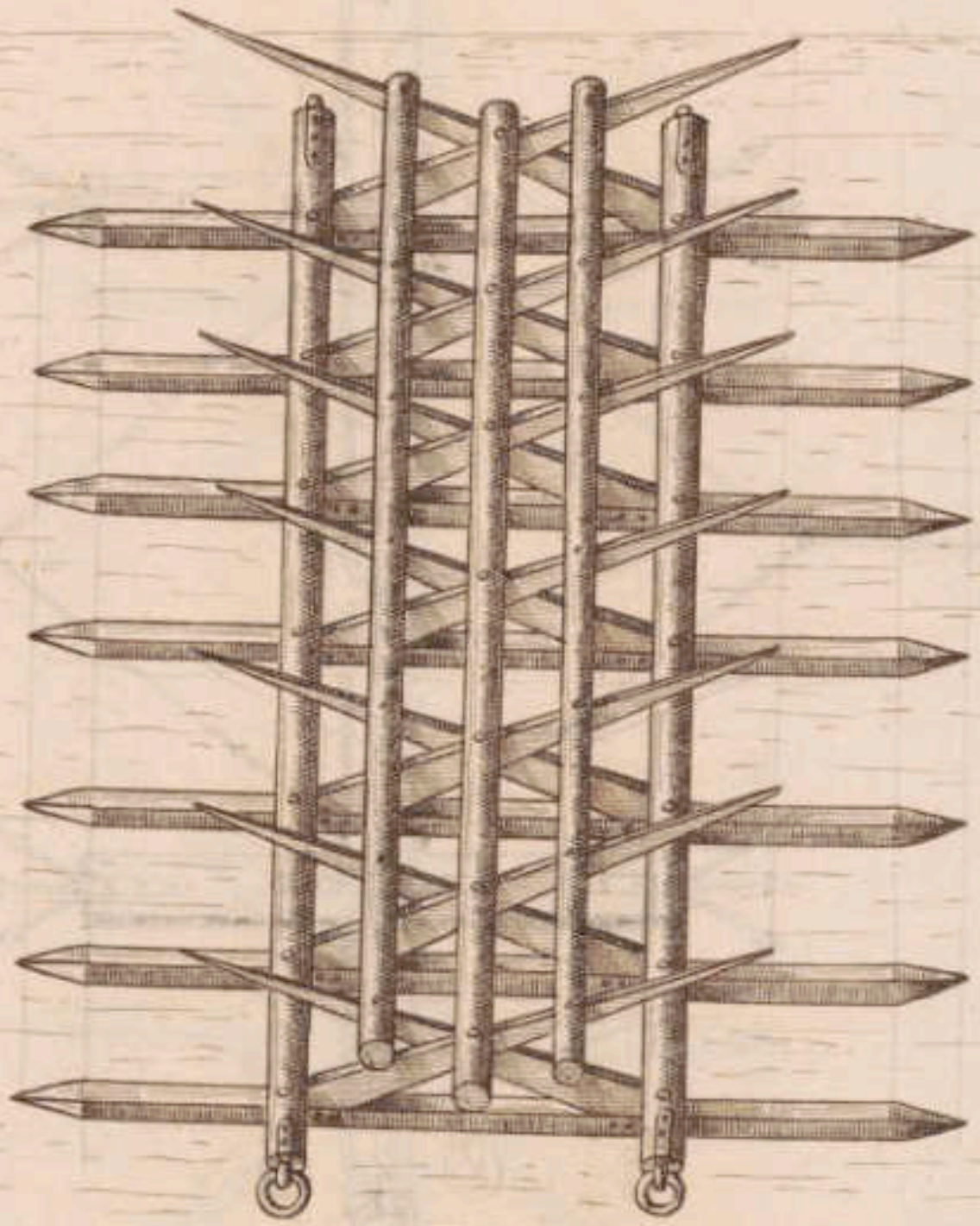
Flotte a contregarder les passages de Nauires



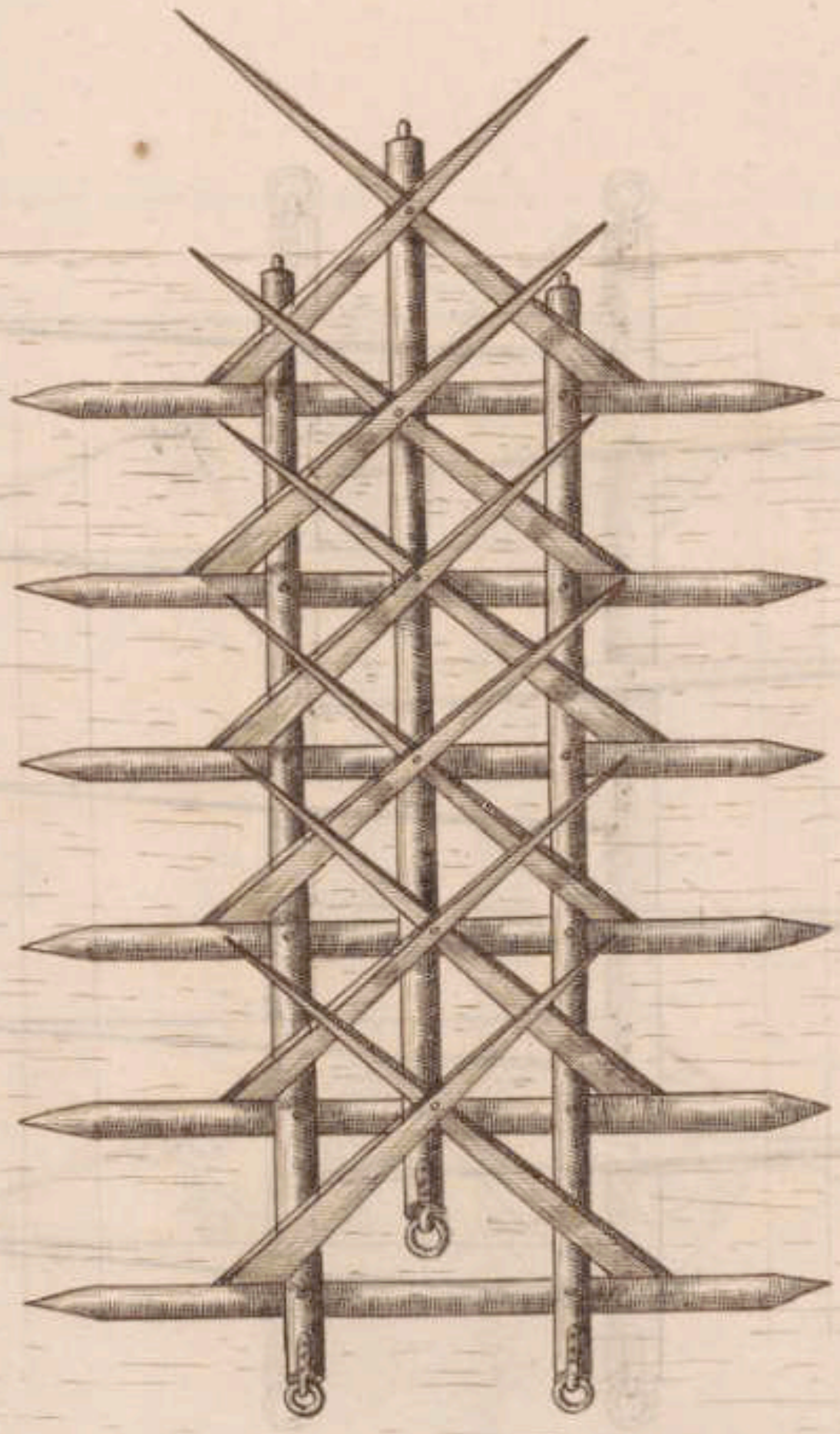
Otro pour lo mesmo effect de la precedente.



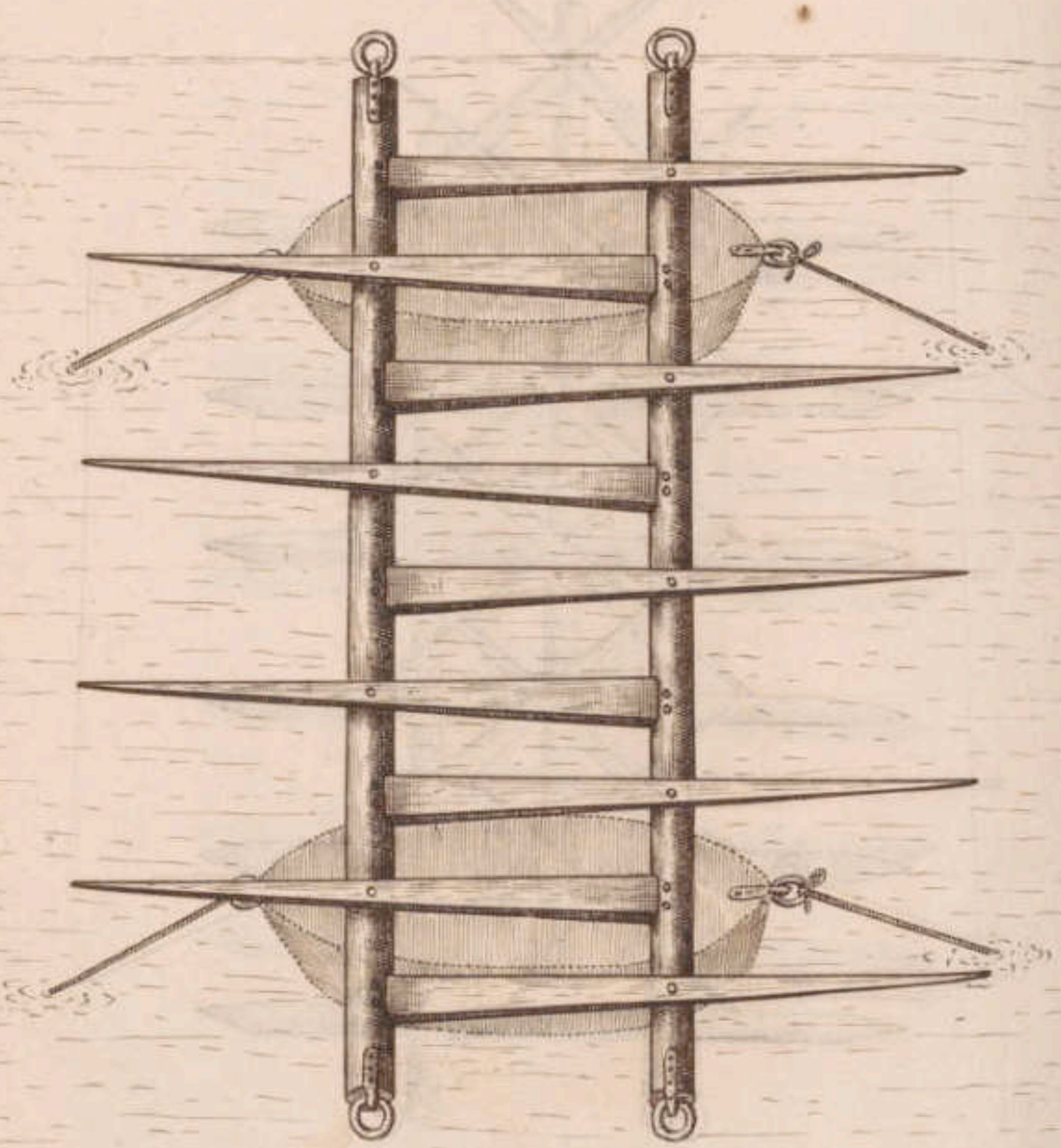
Plotte pour contregarder ponts et passages, lesquelles chasque trouce doibt tenir de longeur 35 piedz et le traverses ou pomettes denbas 16 piedz



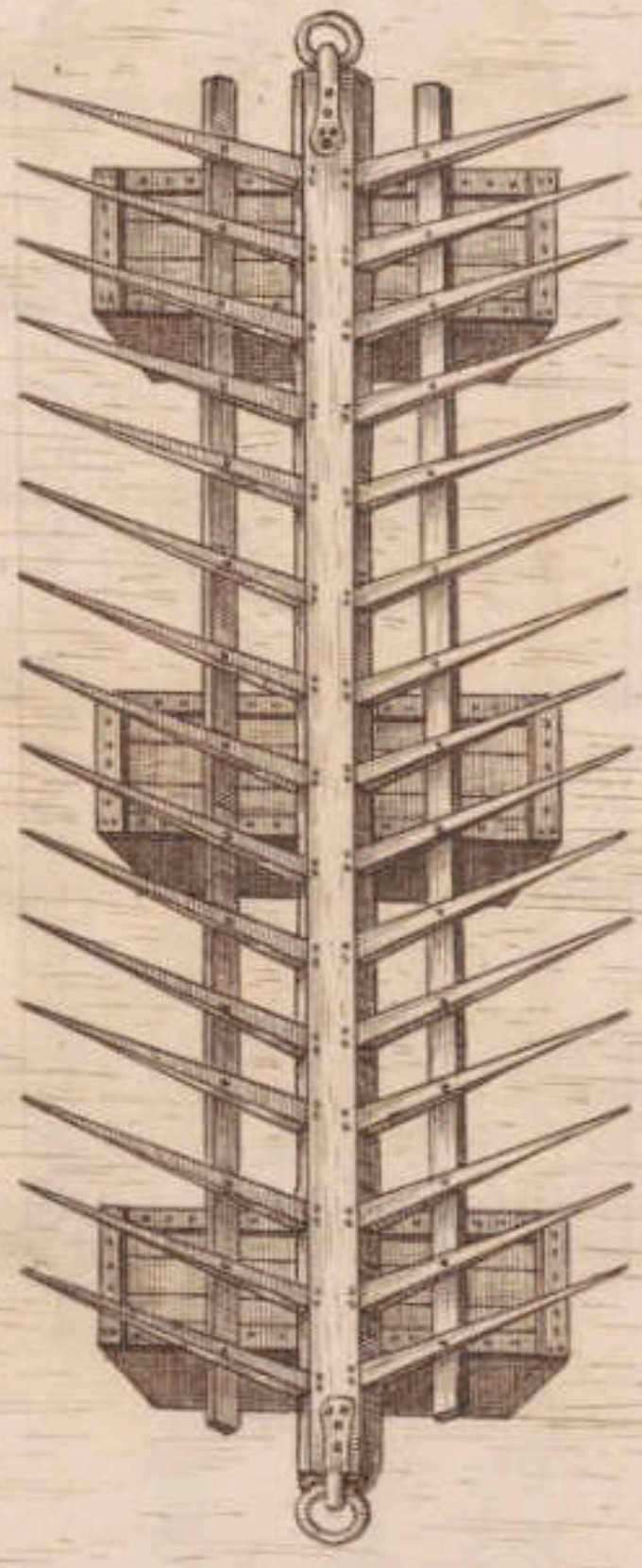
Sotto pour. Lemesme effect, de quoy Jhaque trouue doibt
tenir de Longeur 30 pieds, et les traiers dessus bas quinze pieds



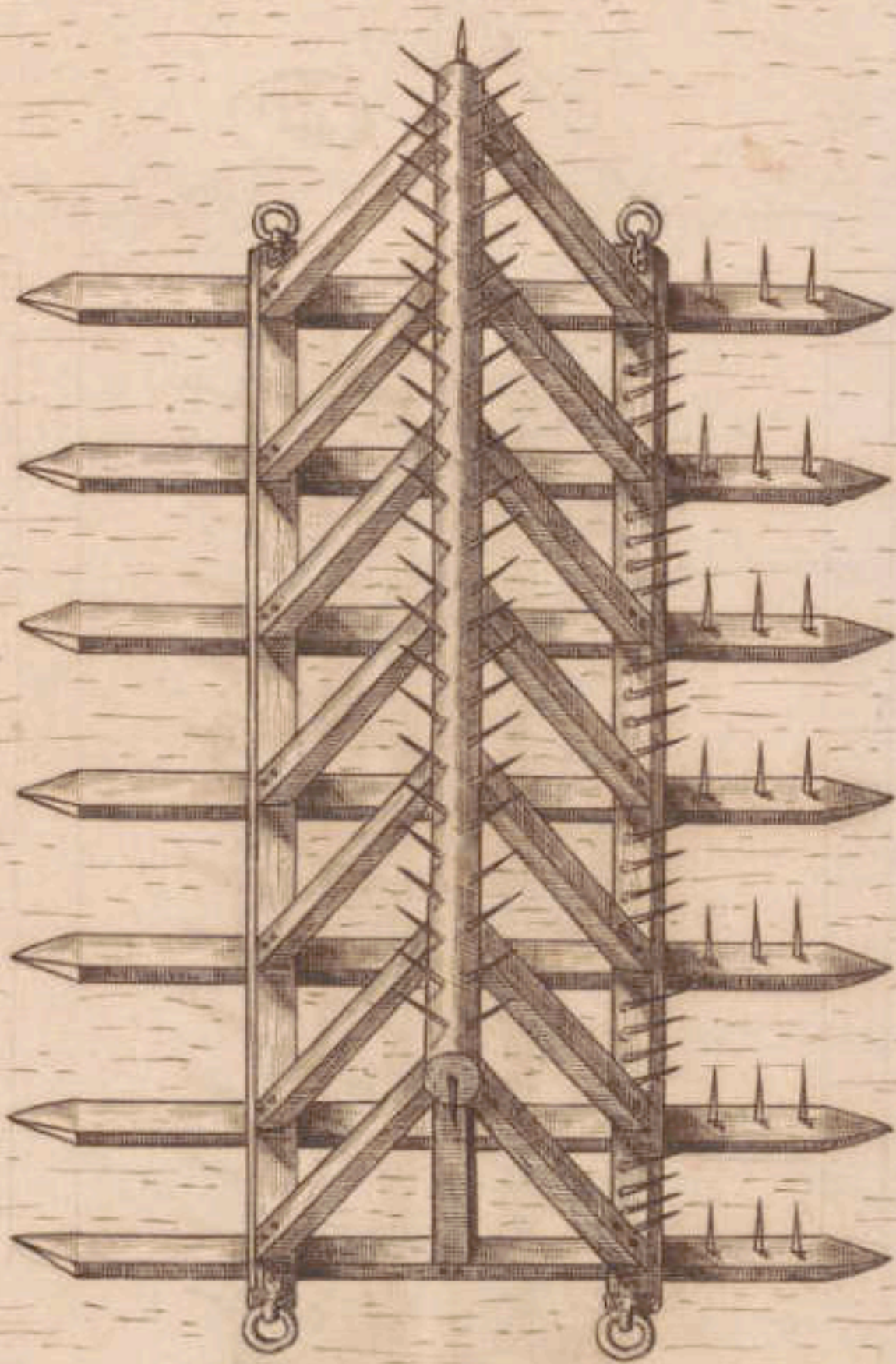
Plotte pour contregarder vn pont contre les Palteaulx Artiffiuelz de guoy chasqu'vn trouue a de tenir en longeur 25 pieds et les trauers de 12 pieds.



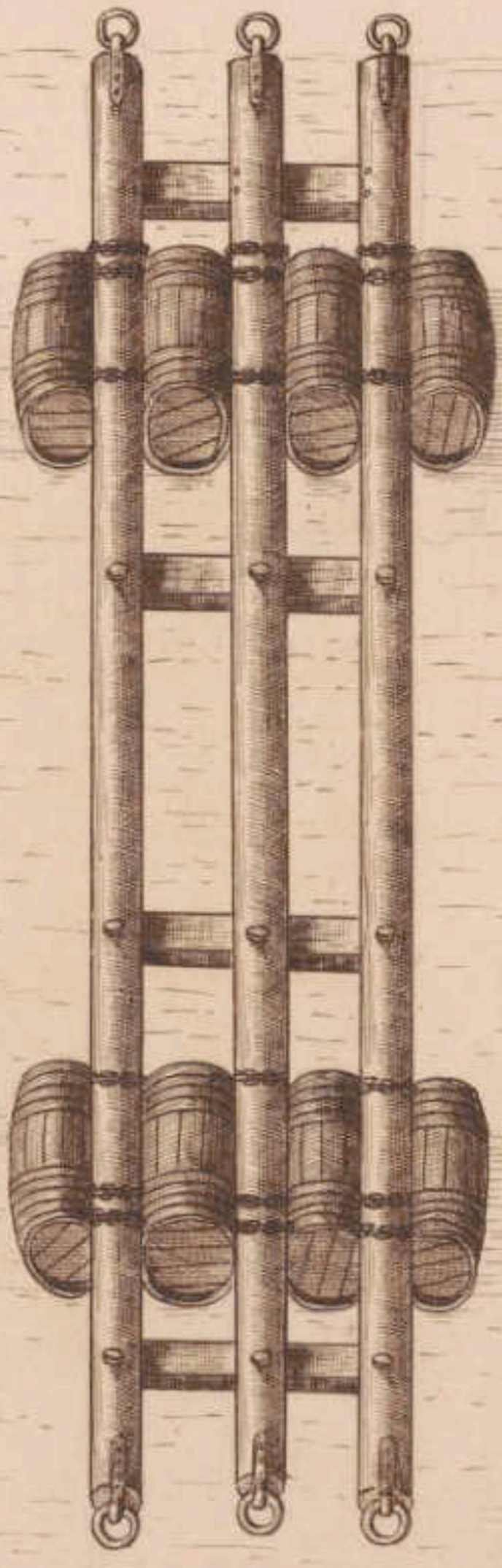
Sette poue le mesme effet, de quoy Sharque trouee doibt tenir de longeur 25 pieds, et doibt estre faict d'un gros arbre de sapin, monte sur de baigues connectes bien poisse et calfeutre contre l'eau.



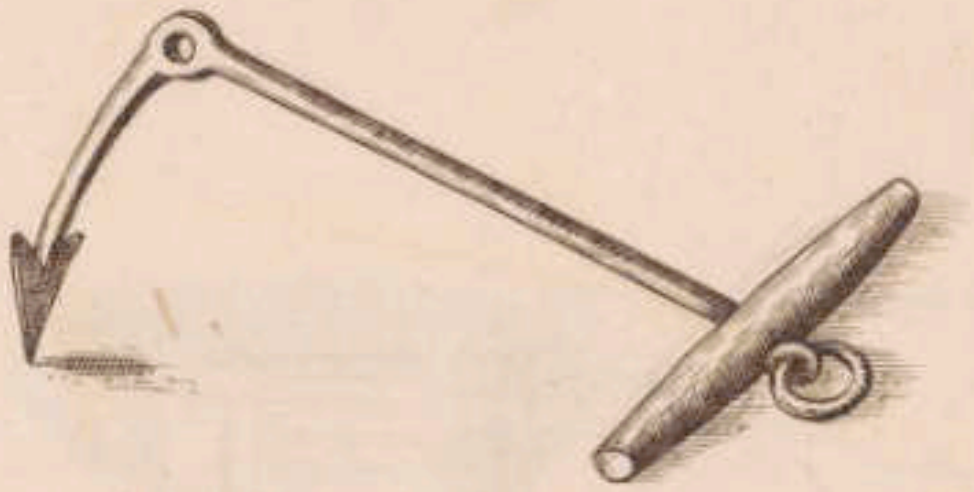
Maniere de flotte pour occuper vne Riuiere et contregarder vn pont. 1 Le gros chasque trouue doibt tenir de longueur 30 pieds et le trauers ont de tenir 15 pieds. Arme du costé exterieur de pointes de fer, affin qu'on y monte point.

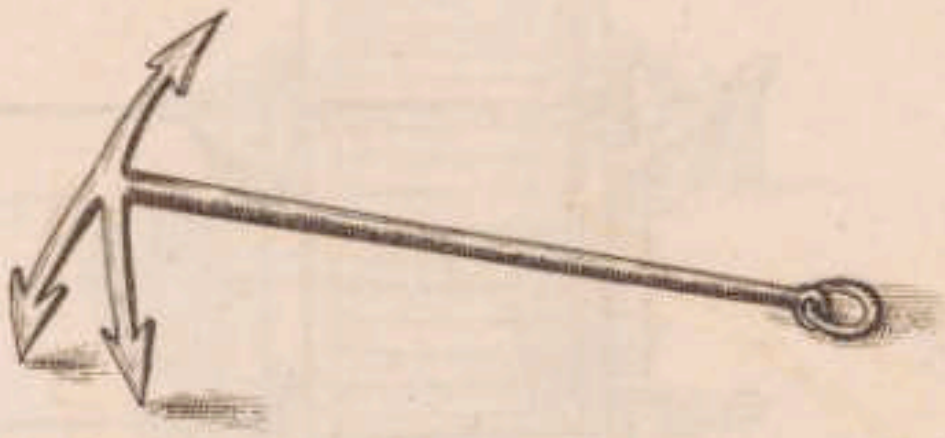


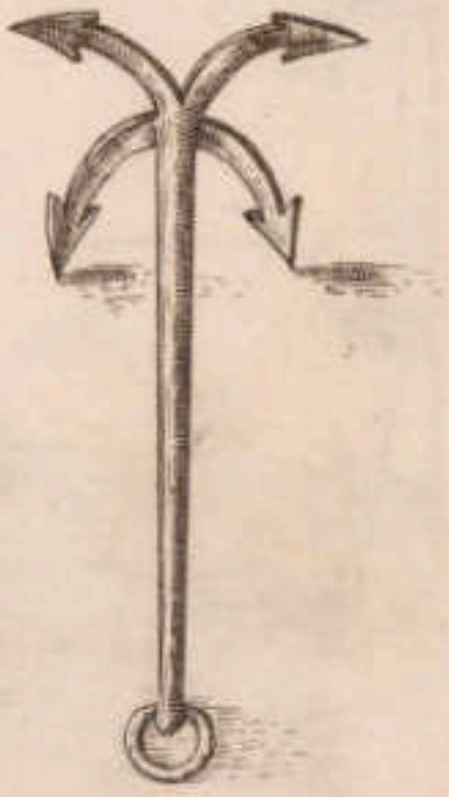
Plotte faict de gros mastes de sapin enchesne sur des Tonneaux de gros chasque trouce doibt tenir 40 piedz de Longeur



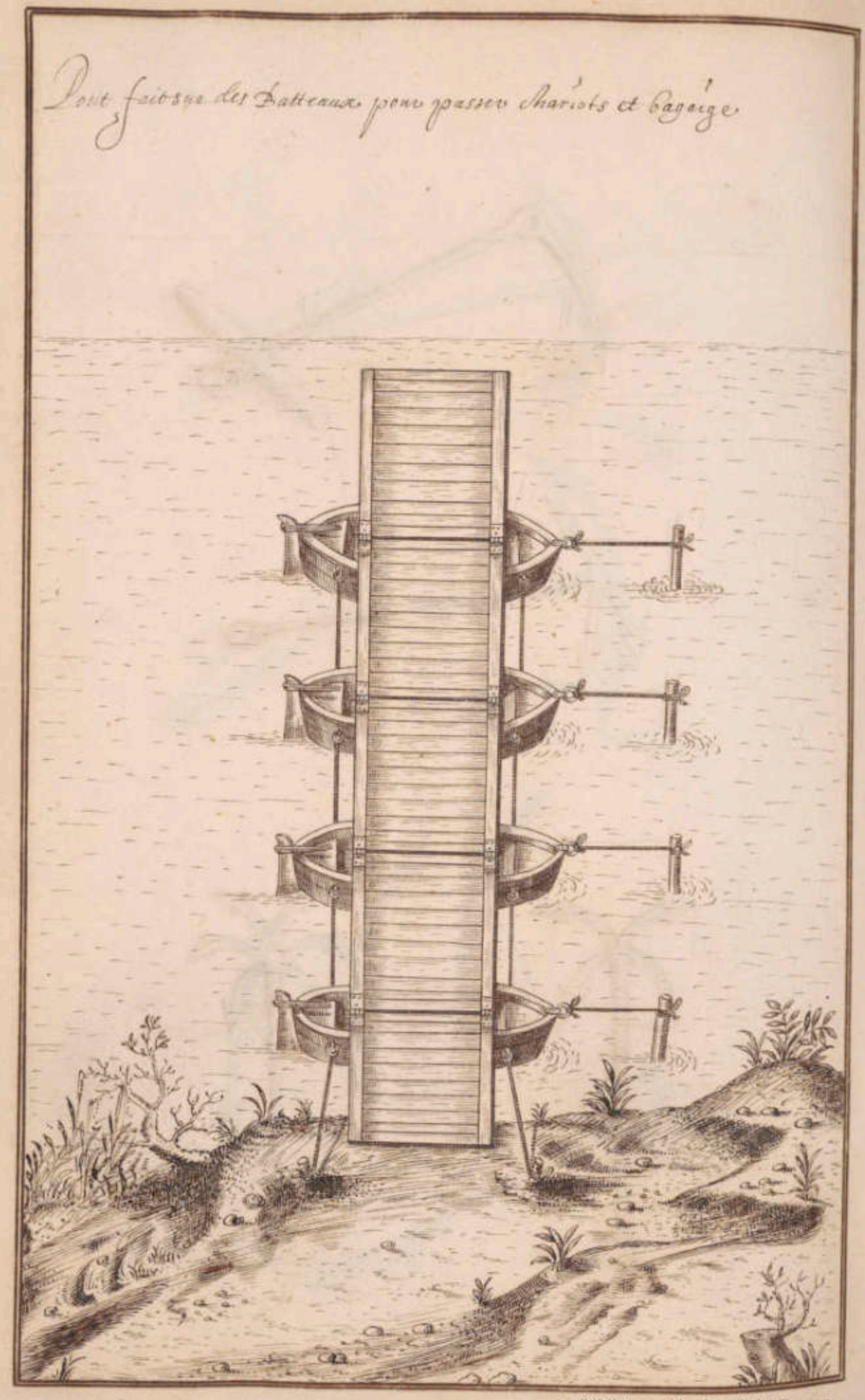
Differentes maniere d'Ancres.



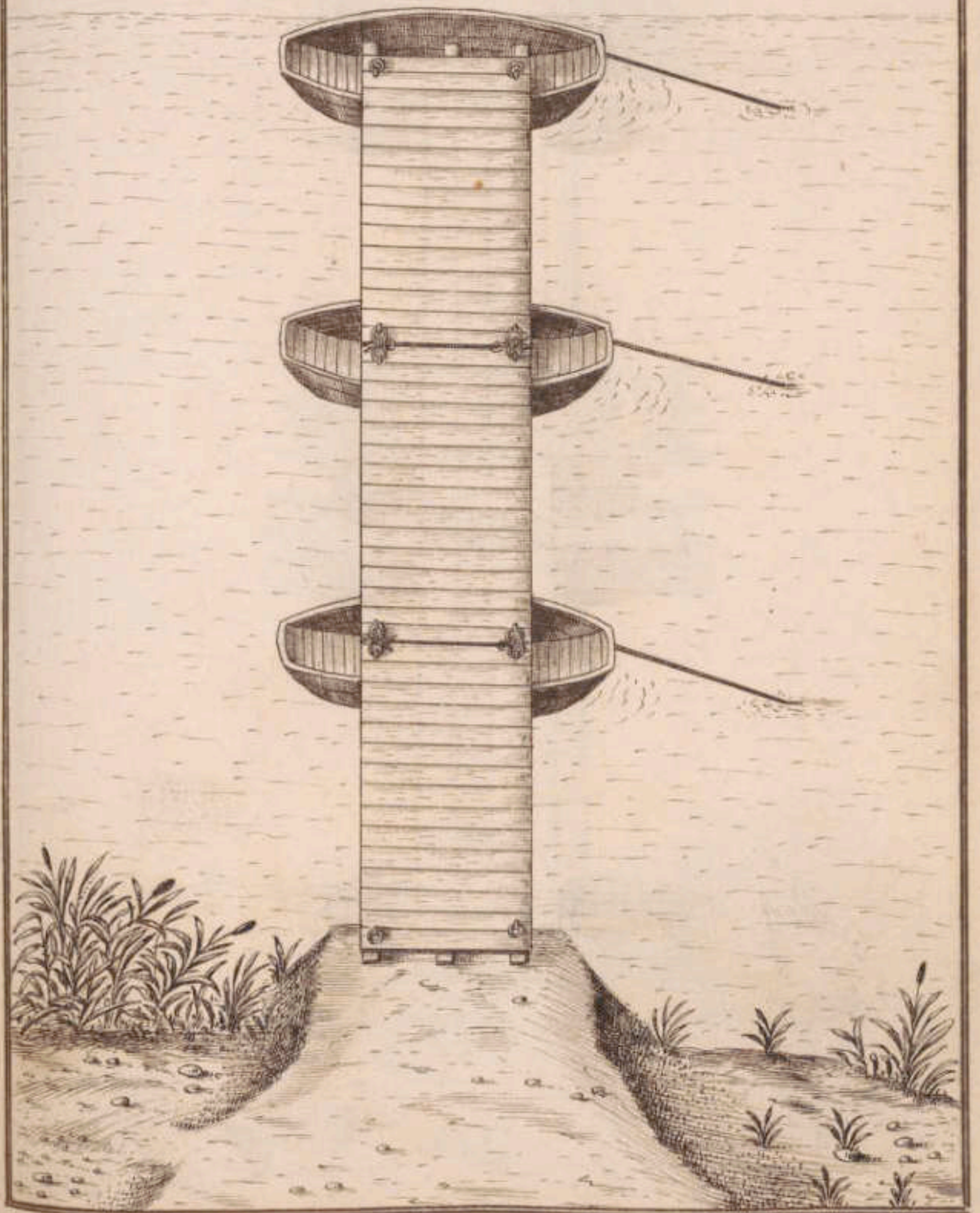




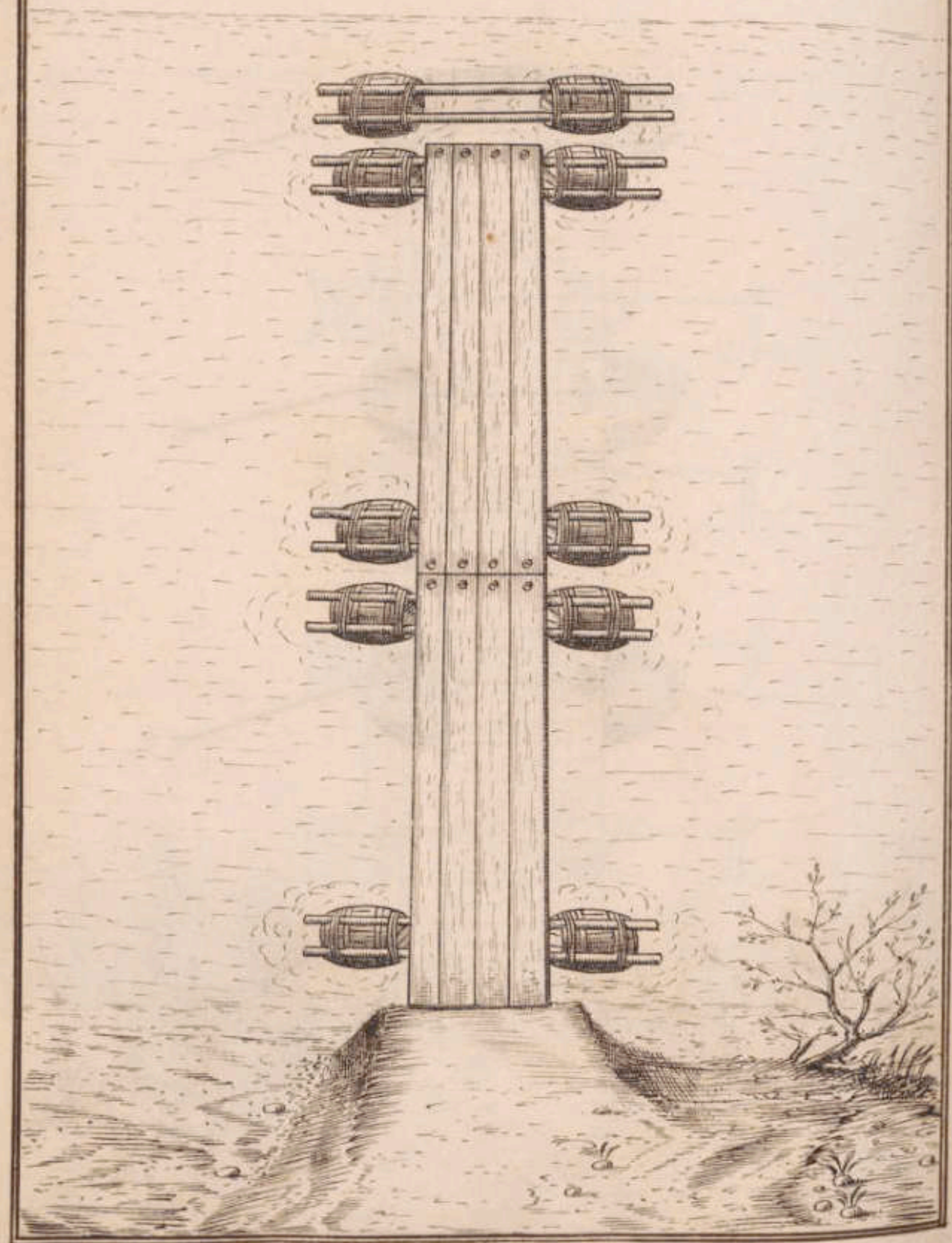
Pont faict par les Batteaux pour passer chariots et bagaige



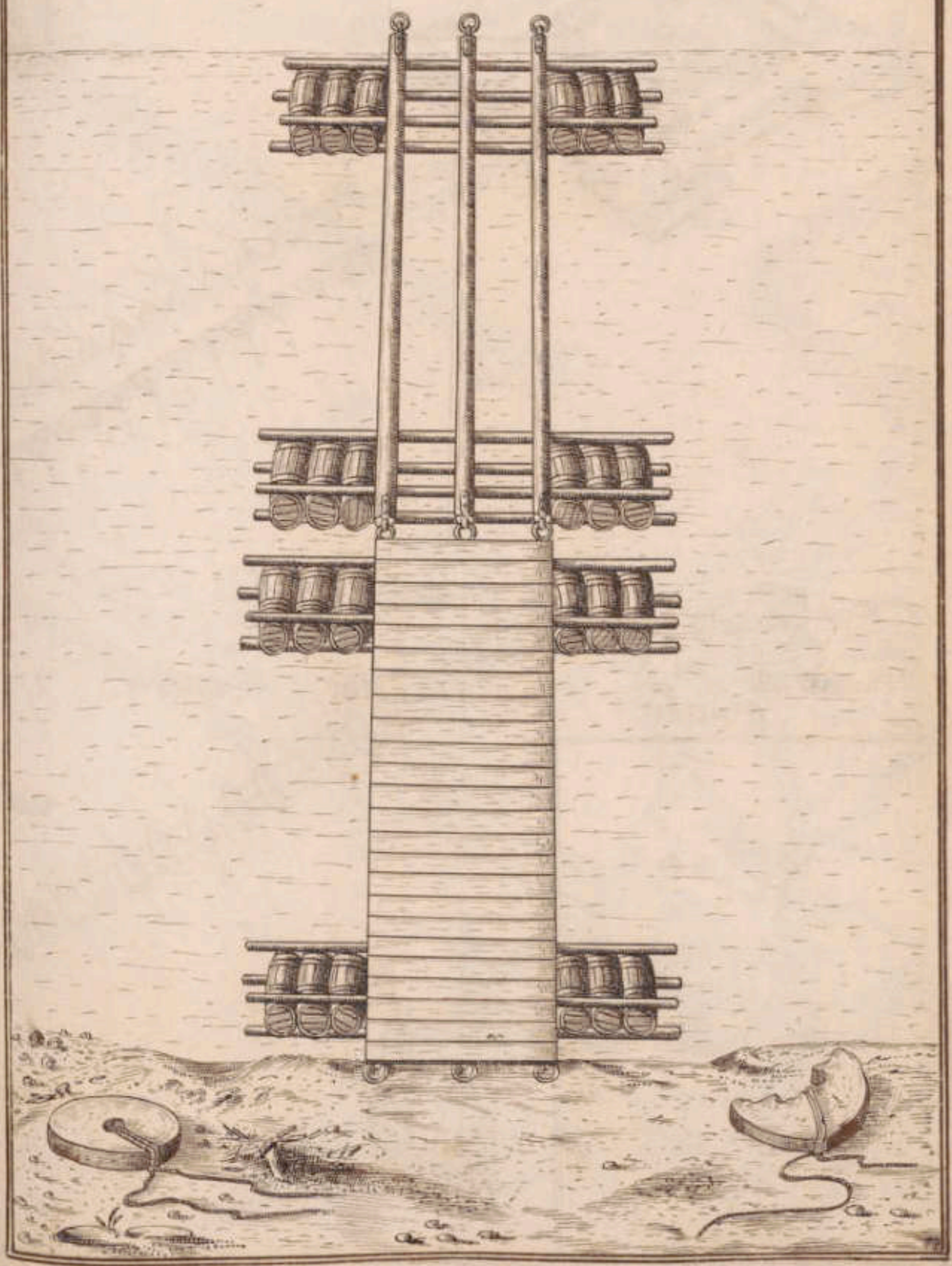
Pont de Batteaux pour passer chariots et Baggaiges

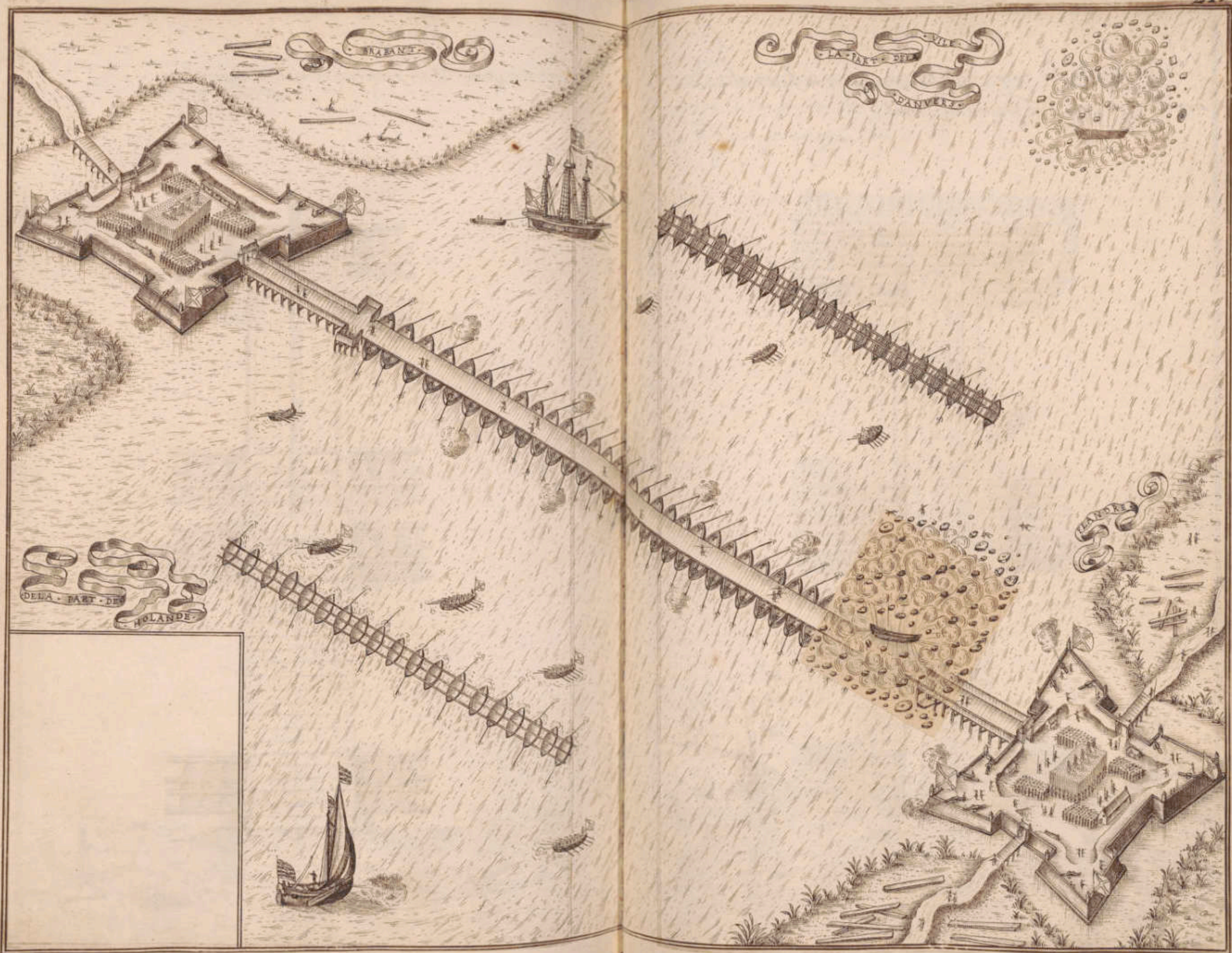


Ce pont qui a seruy pour passer le fosse de Singe, faict des planches de sapin monte sur des Tonneaux.

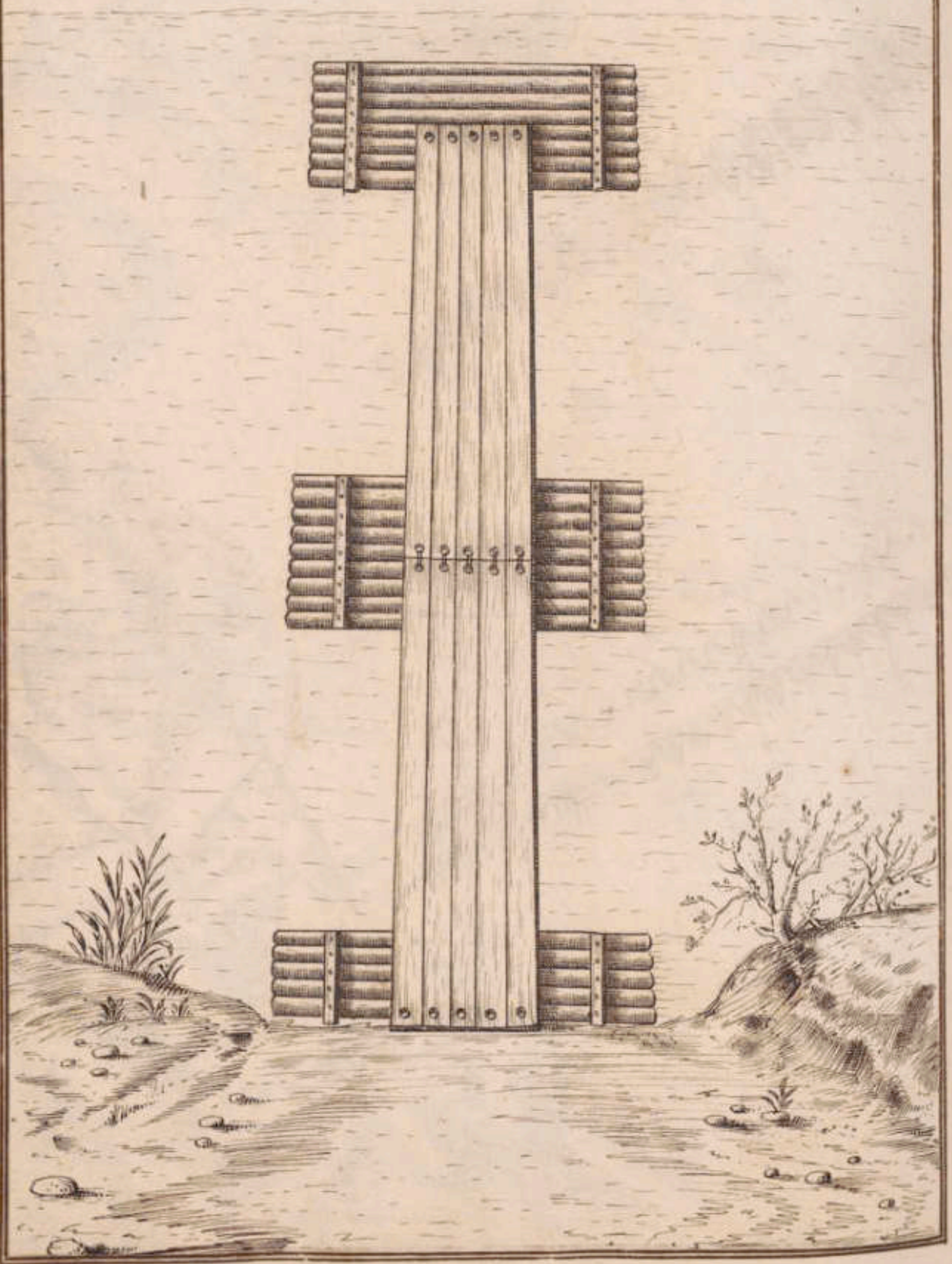


Pont monte sur des Tonneaux propre à passer fosses.

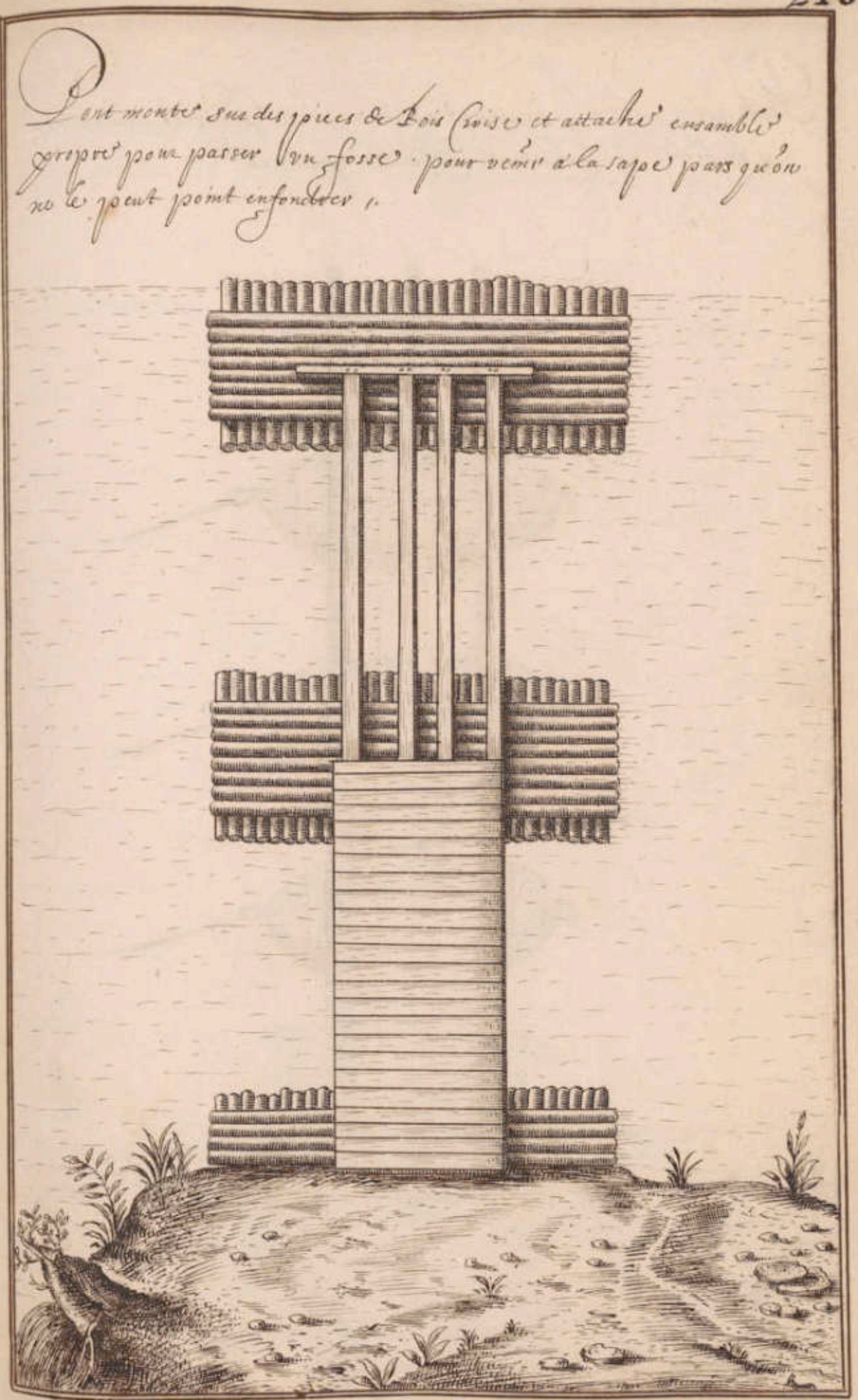




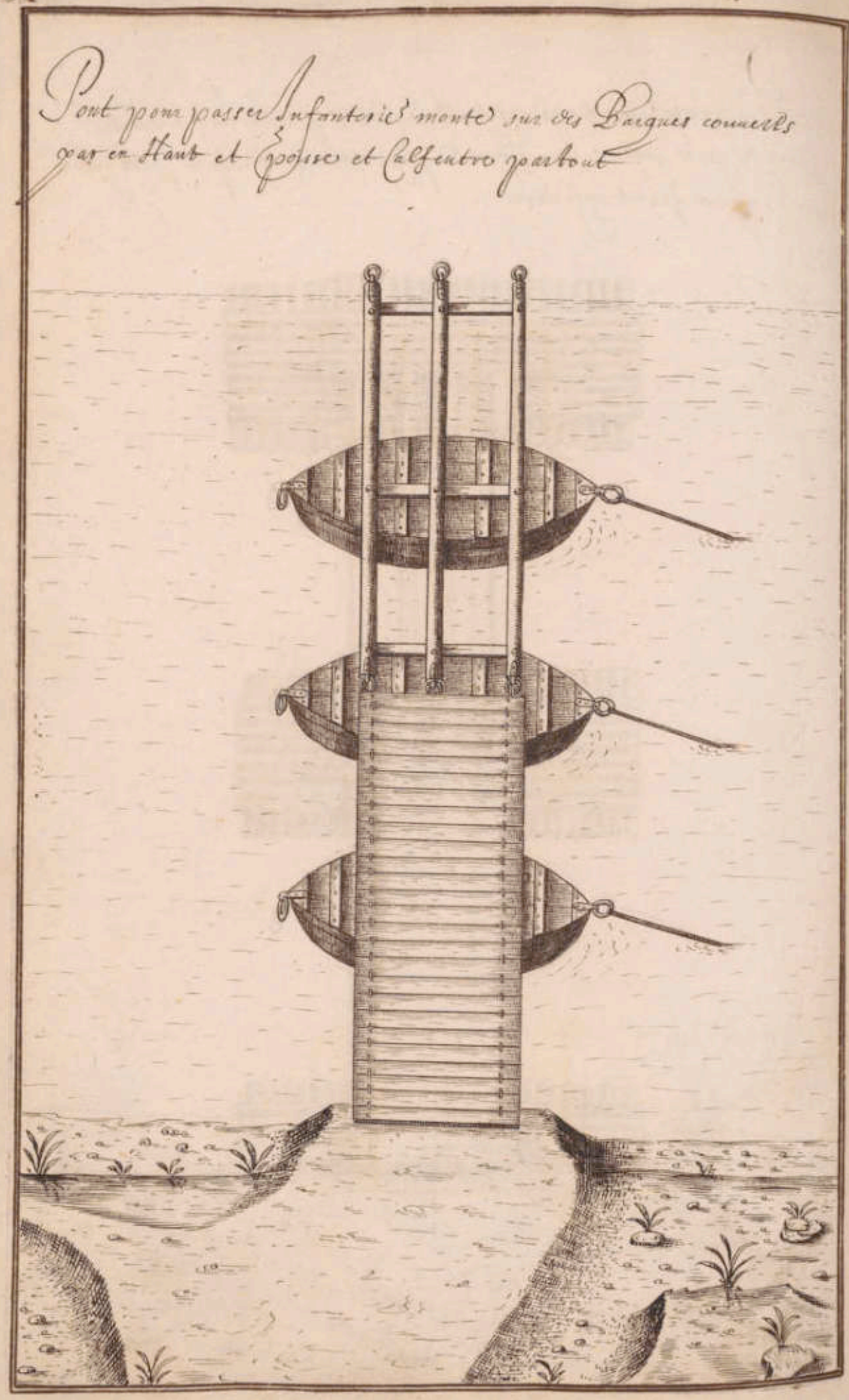
Pont fait de planches de sapin montés sur des pieces de bois enclavées ensemble propre pour passer un fosses.



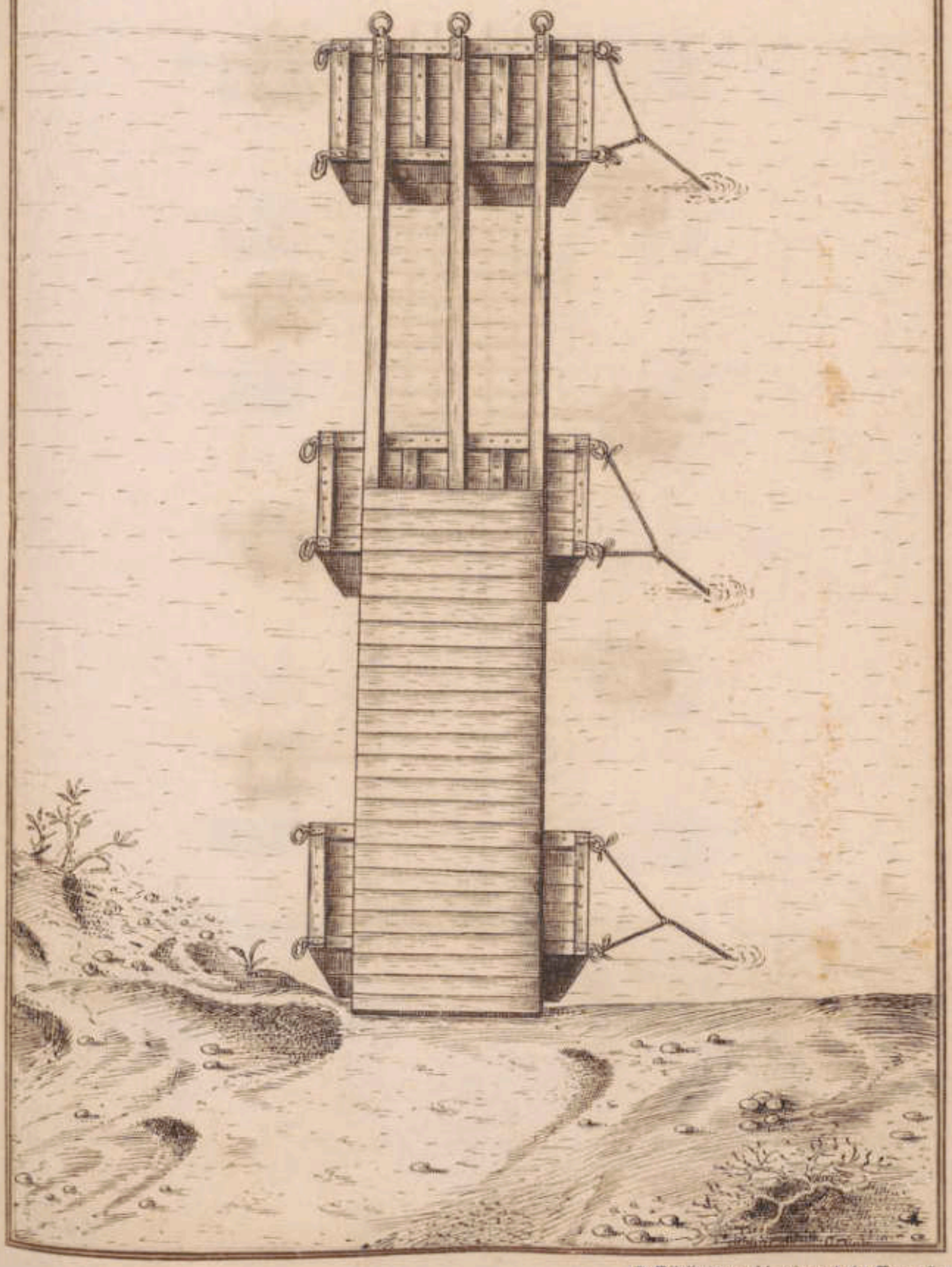
Pont monté sur des pieces de Bois Croise et attaché ensemble propre pour passer vn fosse. pour venir à la sape parce qu'on ne le peut point enfondrer.



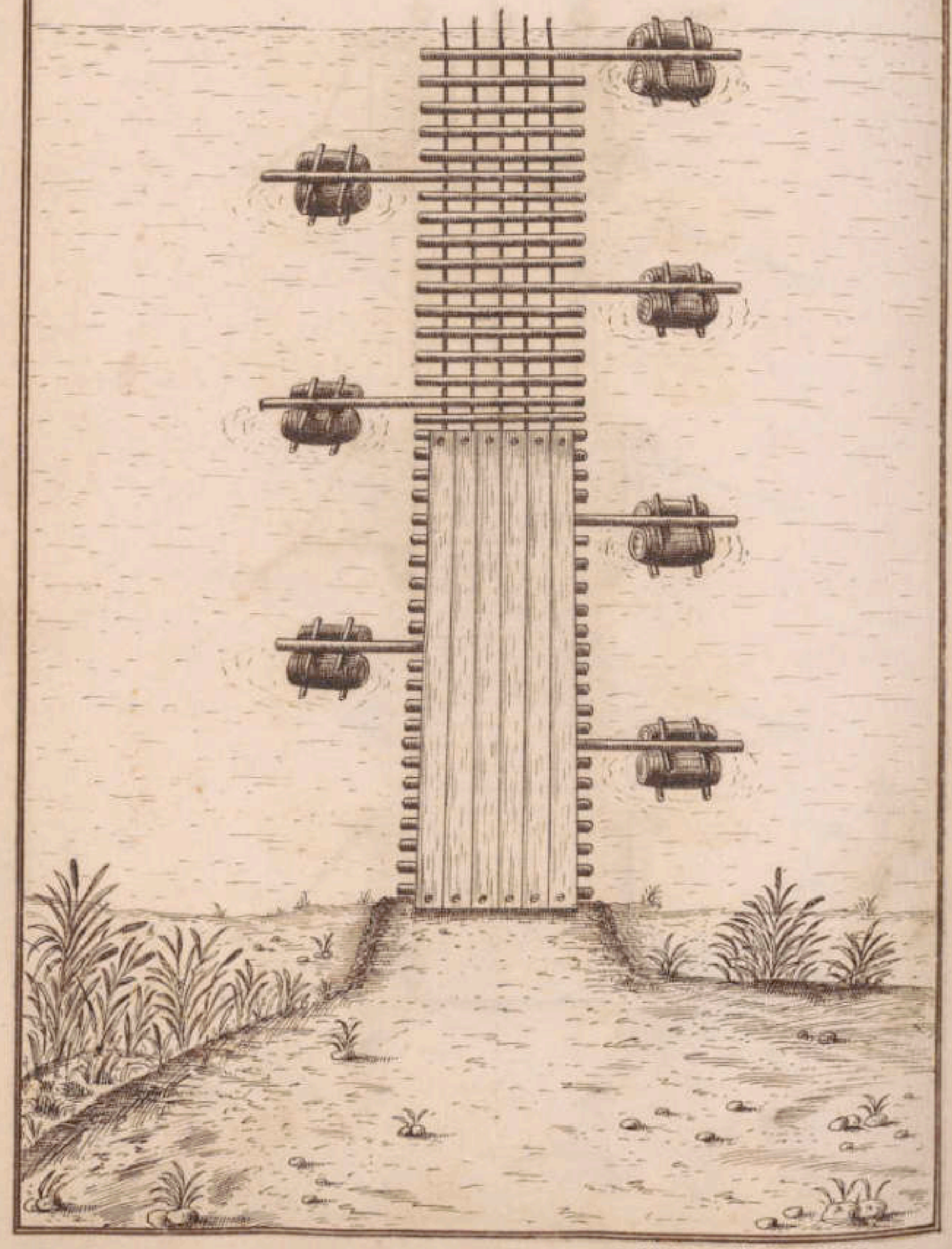
Pont pour passer Infanterie monté sur des Barques couvertes par en Haut et Exposée et Calfeutrée partout



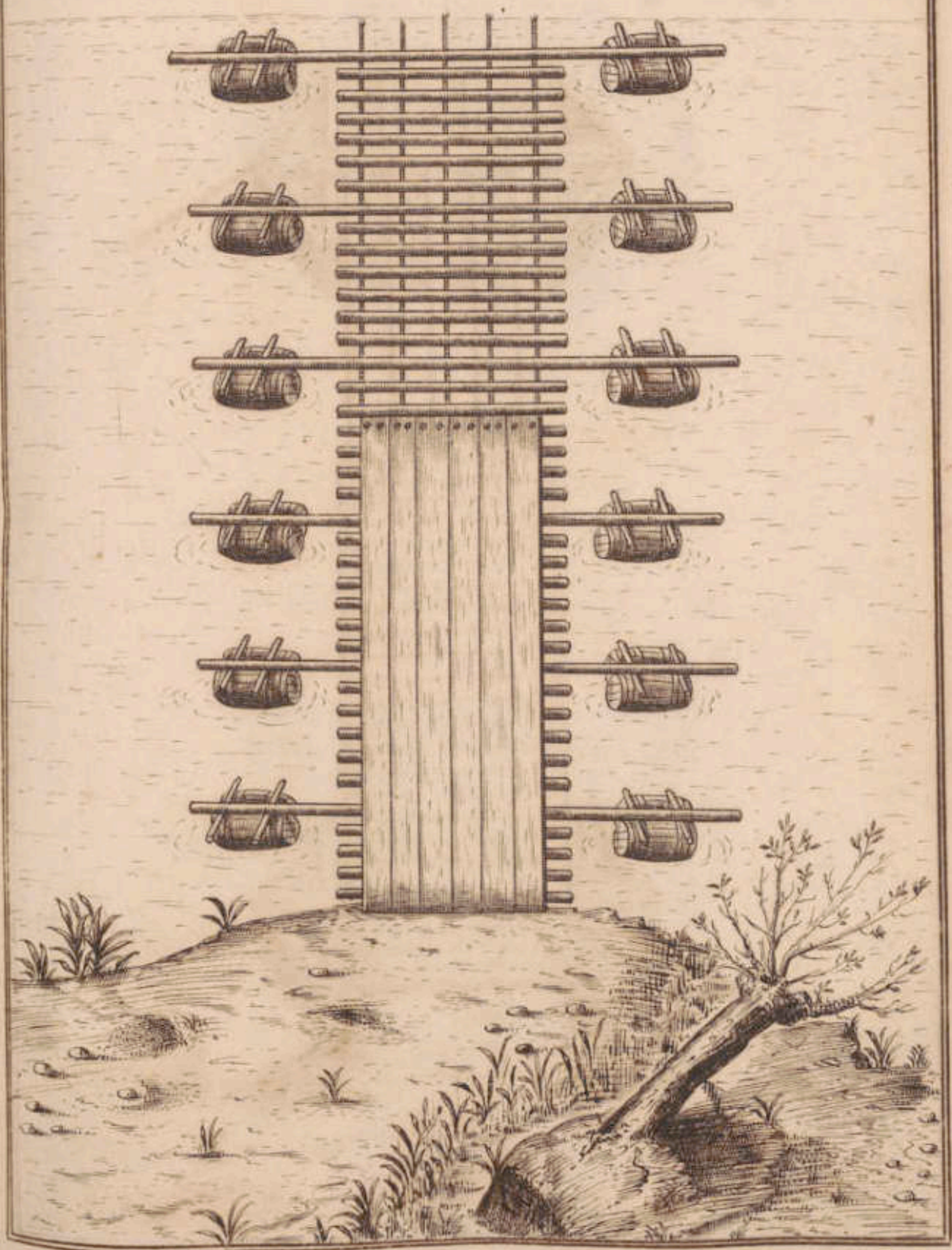
Pont propre pour passer Infanterie monte sur des barqz
quarrees comettes par en haut Et Calfeutre et poise paelot



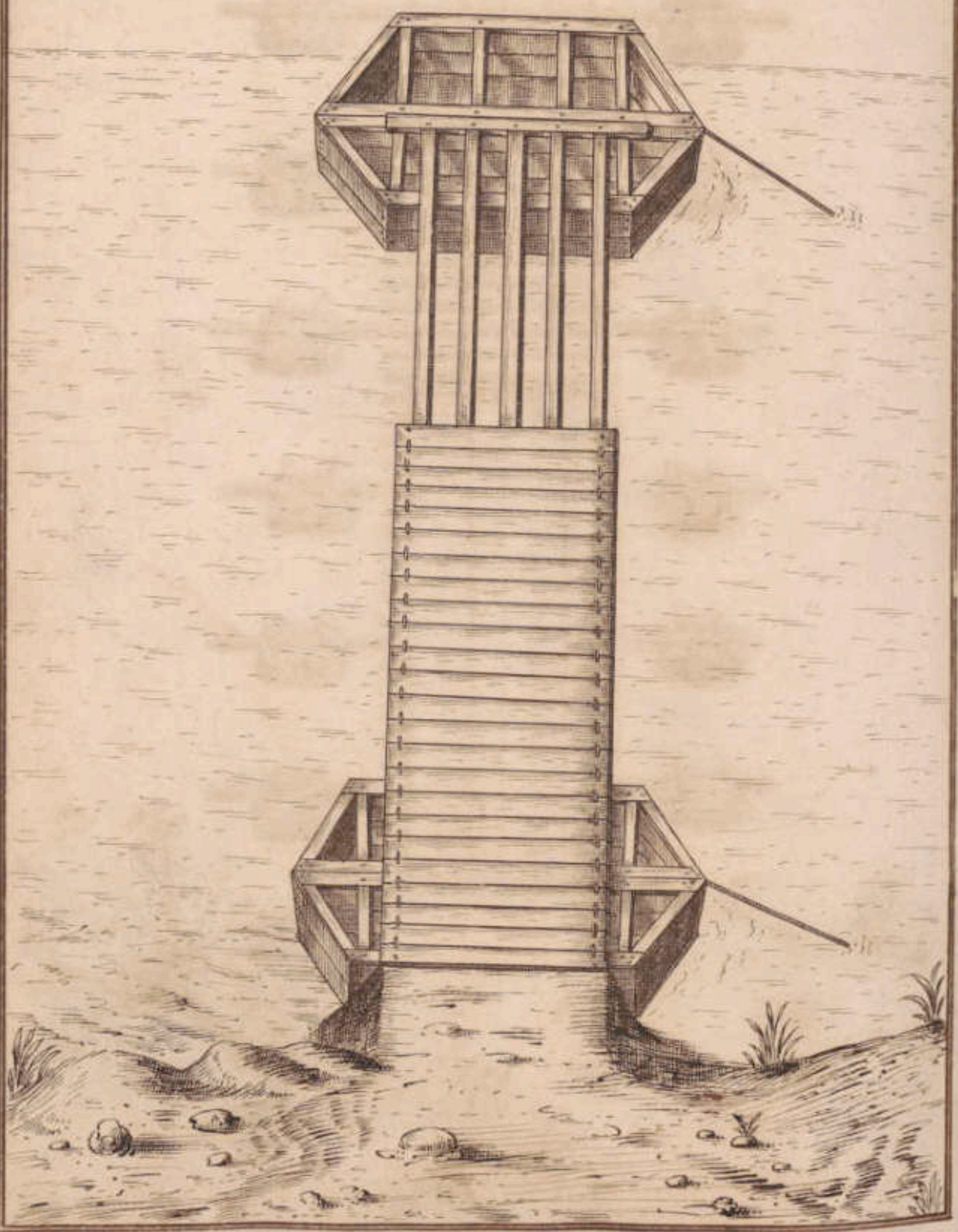
Pont fait a la legiere monte sur des Tonneaux comme icy va dessigné



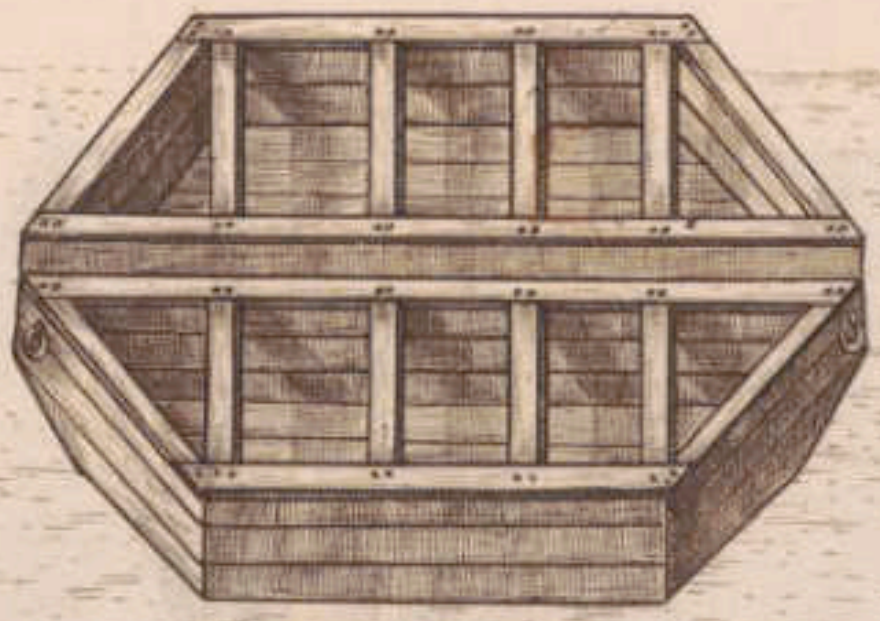
Autre pont monté sur des Tonneaux pour passer à la Nage lesquels se roulent tout l'vn dessus l'autre. pour & transporter sur les Chariots.



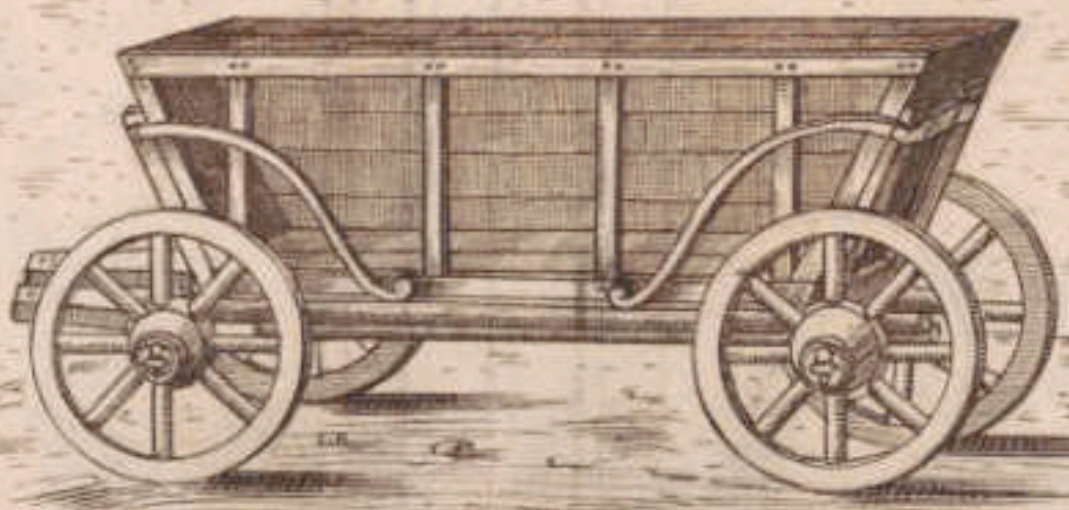
Maniere de faire vn pont de mast de sapin et polonches de sappin, pour passer chariots et baggaiges. Lequel doibt auoir chasques trouee de longueur quarante ou quarantes cinq pieds et de largeur douze pieds. 1.



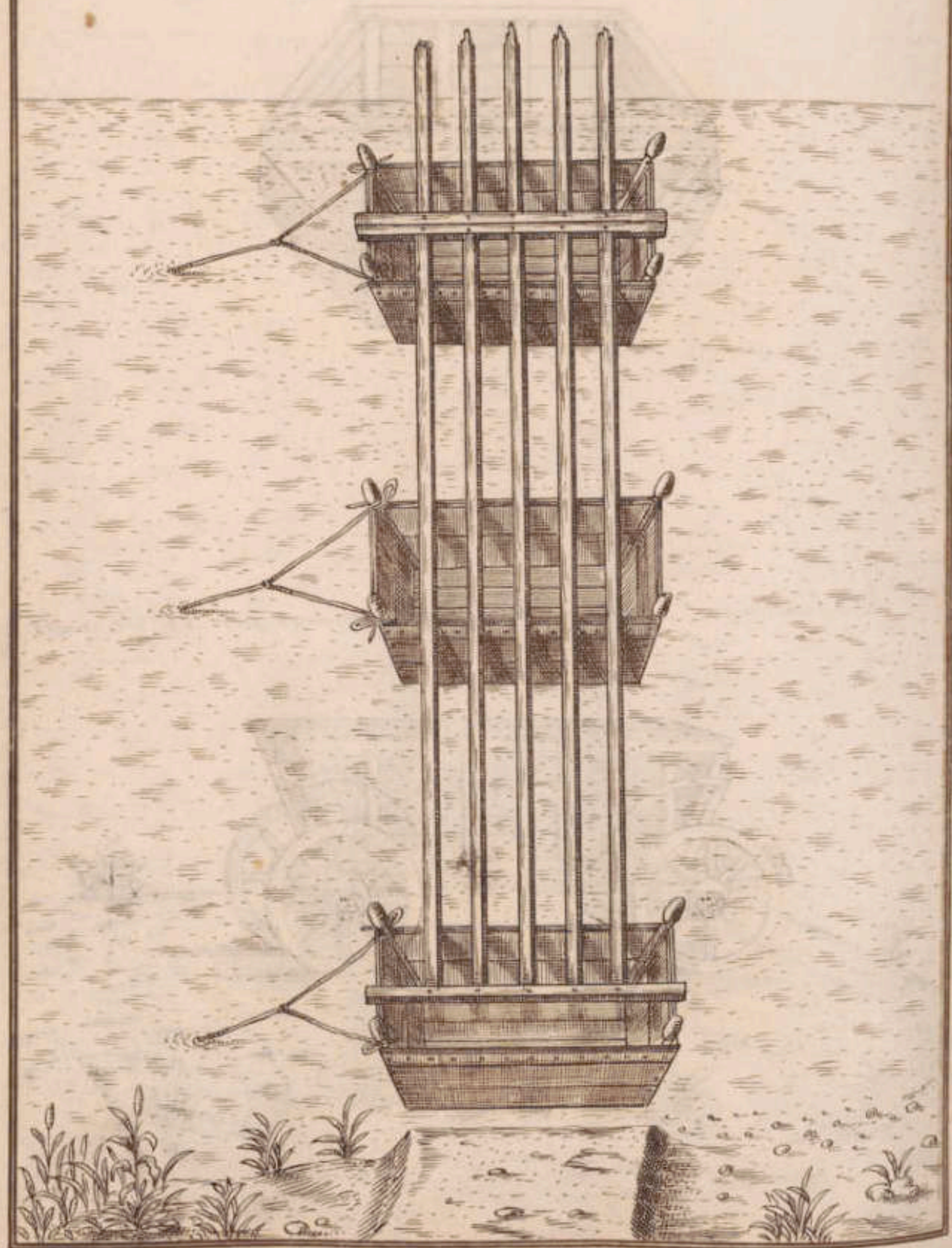
Langes ou Bontons de deux pouces pour soustenir vn pont



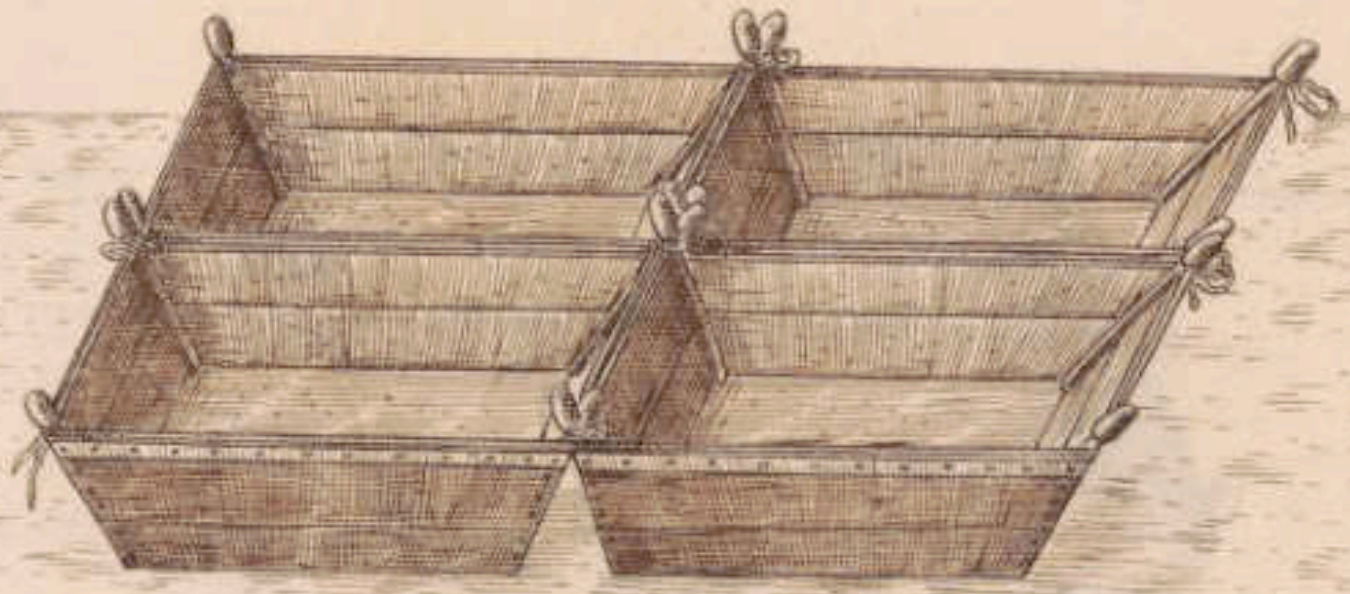
Cola ma mere qu'il le faut charger et amener sur les Charrets



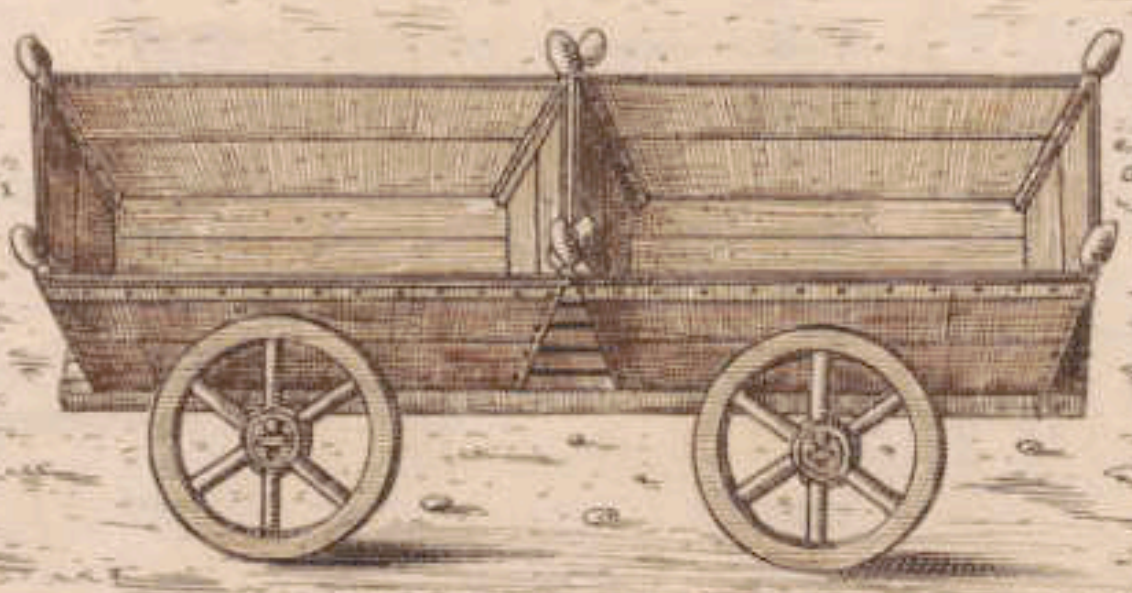
Ce present pont doibt estre faict de mast des sapin, charguez troncez longz de 30 piedz et large de 10 piedz monte sur des Bacqz, comme Icy Ca dessengne. propre pour passer chariots et Baggage..



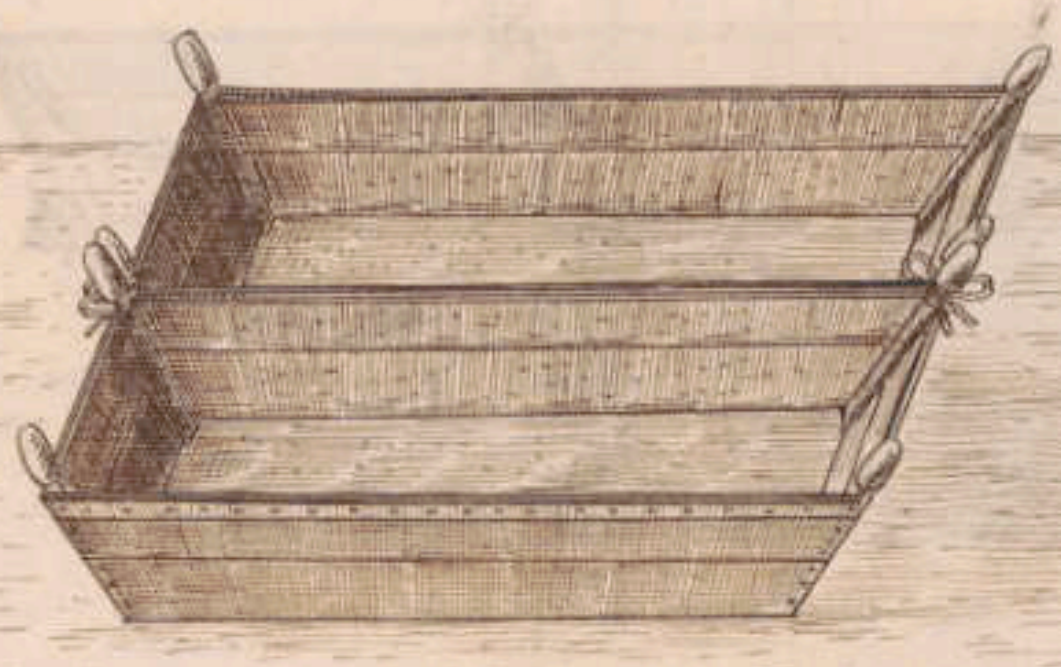
Ses Bacqz ont de teinr de longeur 8 piedz de largeur 4 ½ lesquelles sement pour sonstenir plusieurs sortes de ponts, et aussy peuvent servir pour passer Infanterie, Ayant les attache et Liez par quatre ensemble.



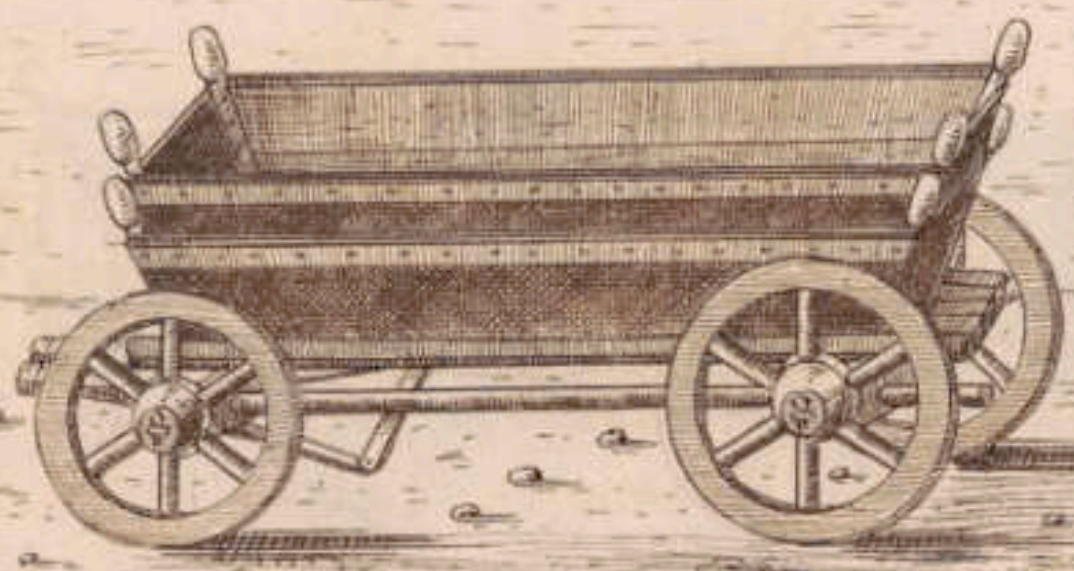
La maniere de transporter et amener sur des Chariots les dites Bacqz

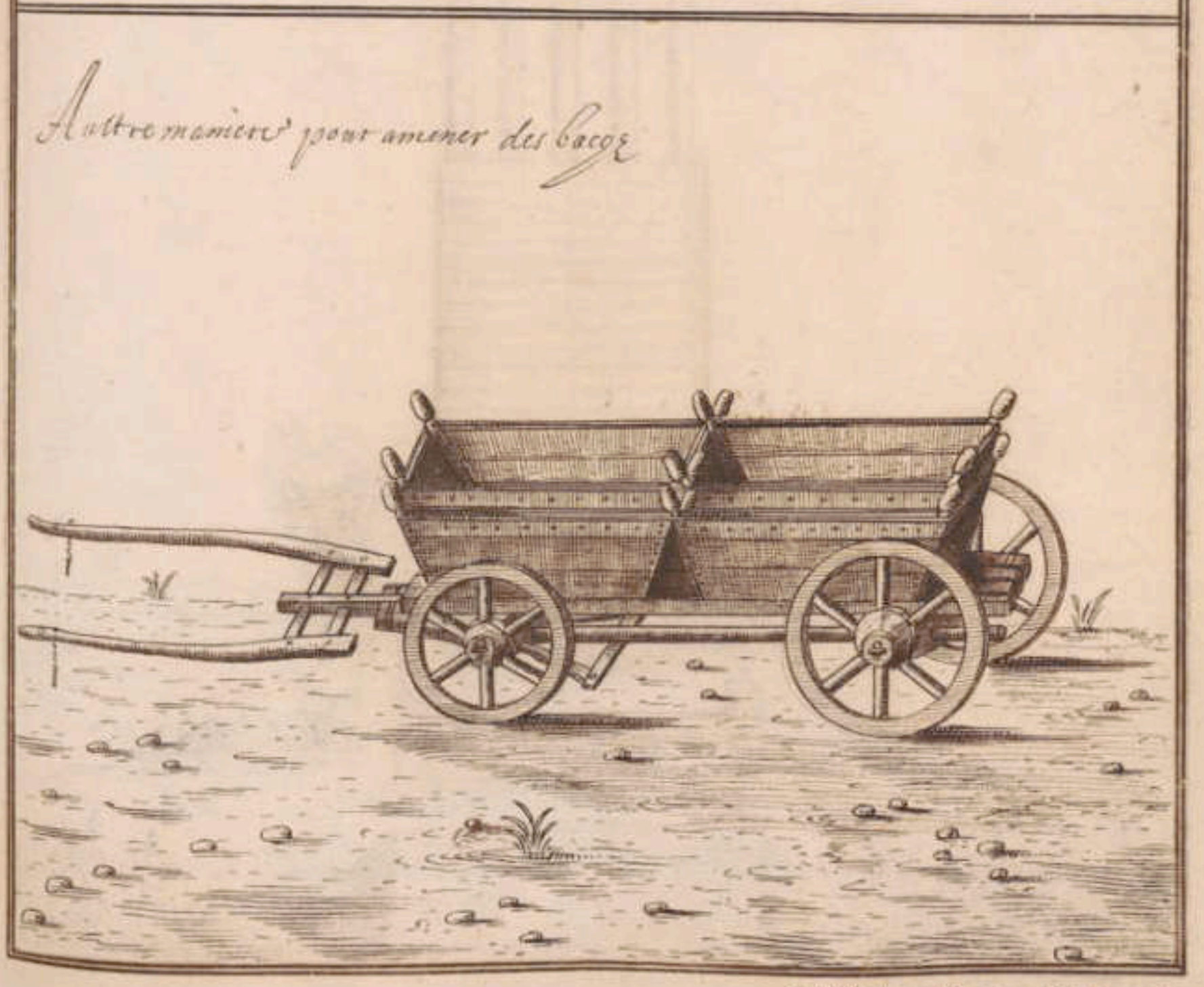


Ses bacqz doibuent tenir en Longeur 10 piedz, et en Largeur 5 piedz, bien Calfeutrez et poisez lesquelles sont bon pour soustenir defferente maniere des ponts, et Muffy ont s'en peult servir pour passer Infanterie Ayant les attaches et lie deux a deux.

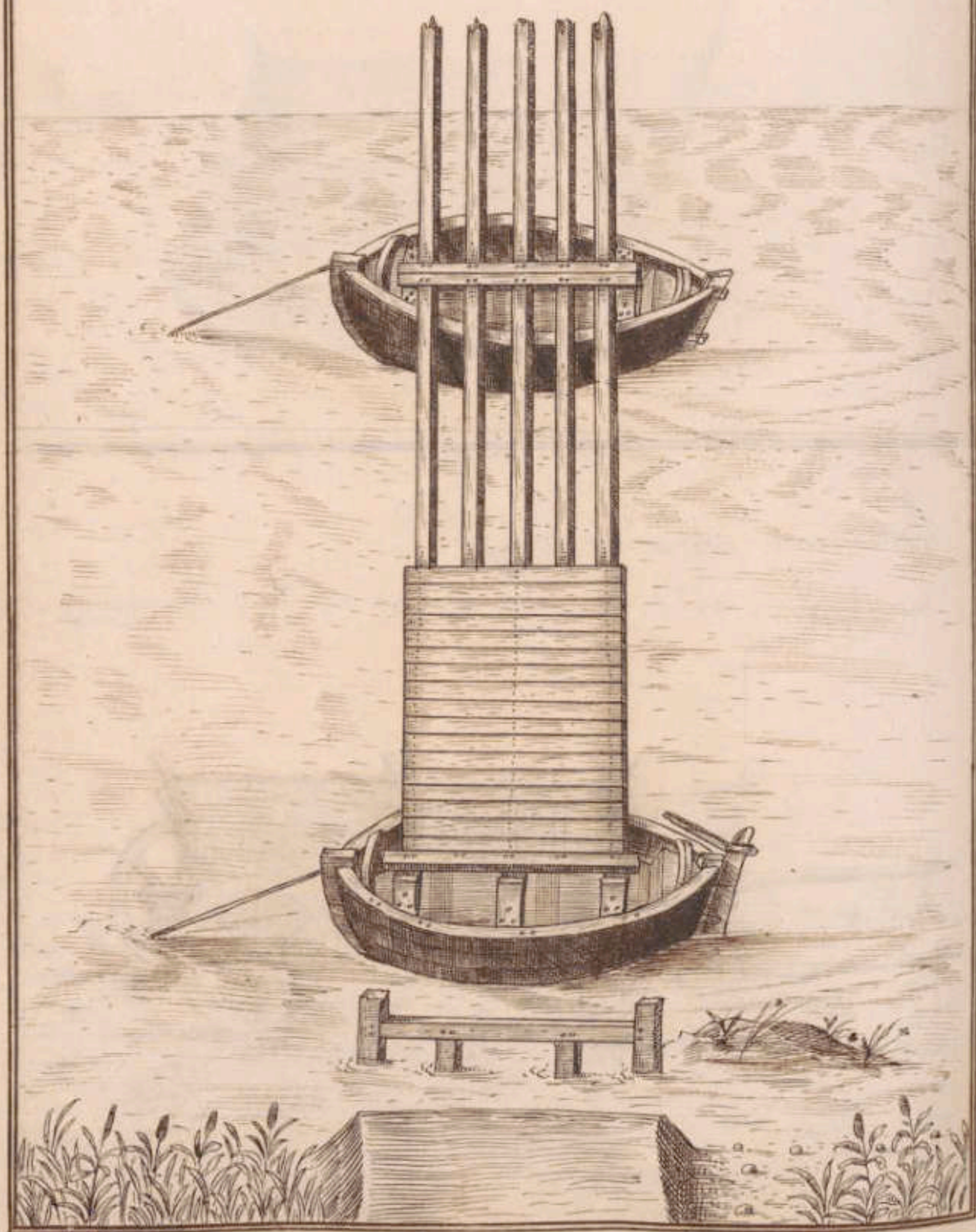


Sa meniere & transporter et amener sur des Chariots ses dites bacques



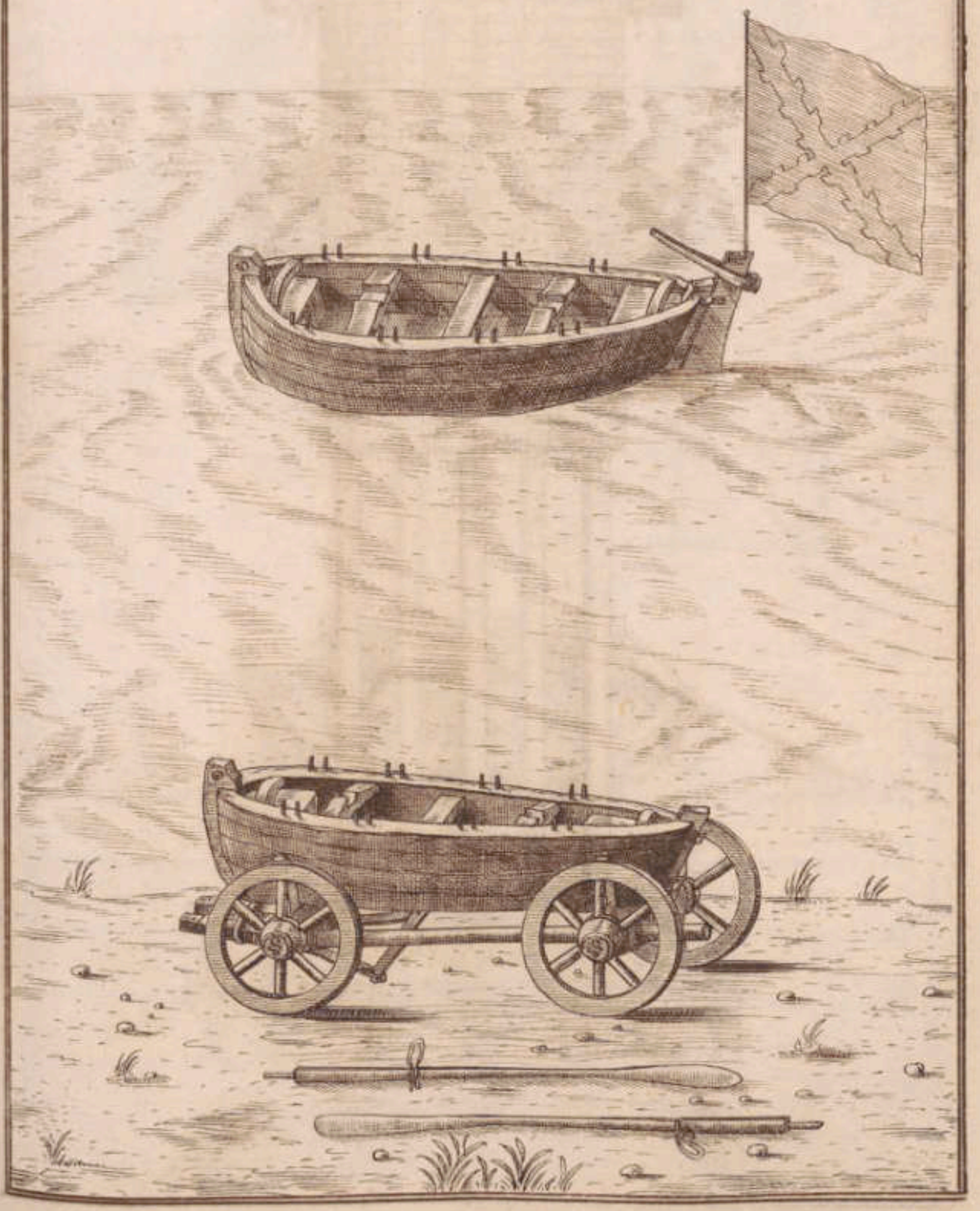


Le pont qui fust mis sur la meuse a Moeg, en l'an 1636. Estant monté sur des petites fregattes faict expres pour le mesme Pont, duquel chasque trouce doibt tenir de longeur 35 piedz, et de lugeur 10 piedz, pour passer charriots et baggage.

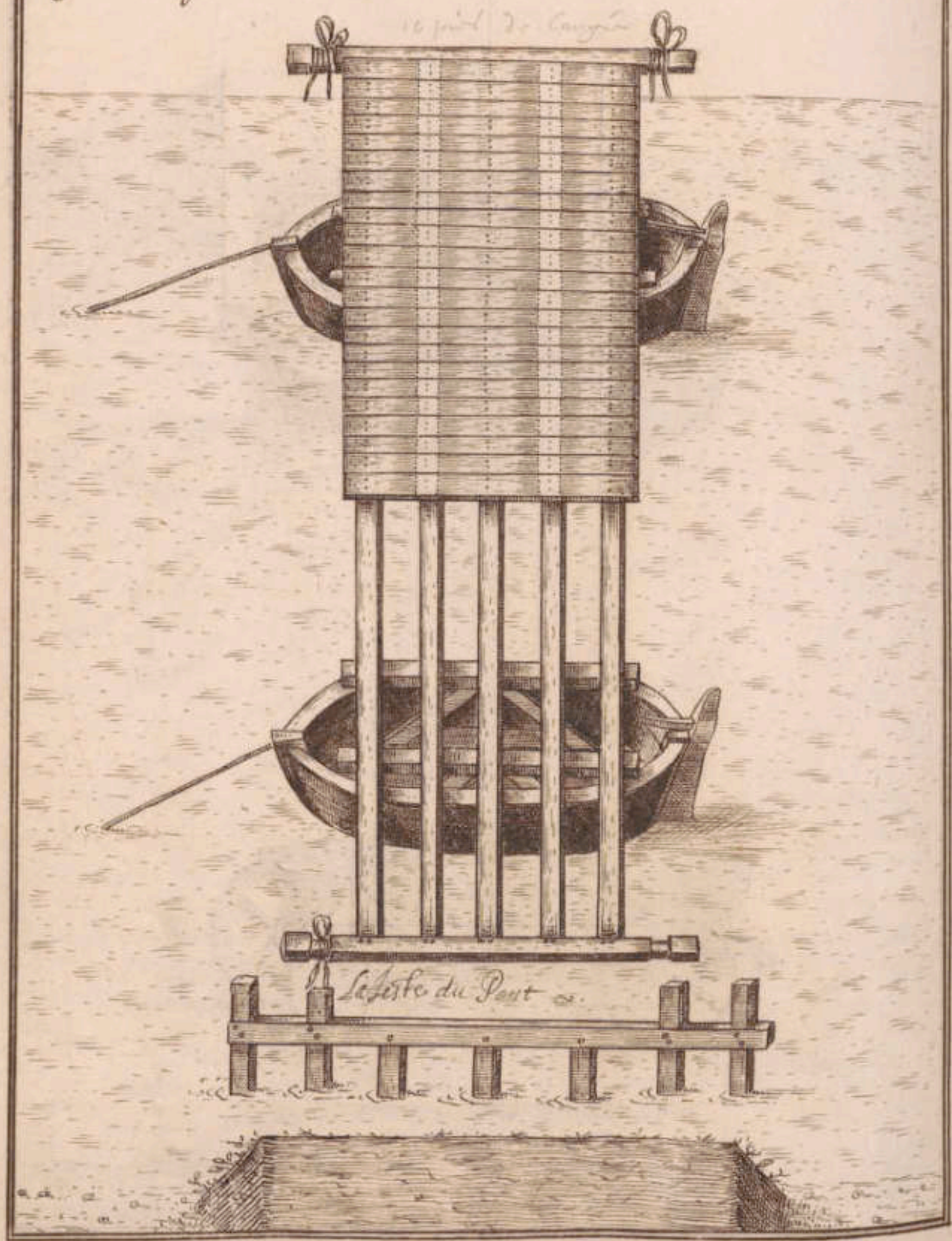


On s'en peult servir des mesmes fregates pour aller a la guerre et Combats

La facon et maniere pour les transporter sur les Charriots



Le pont que fist mettre le Comte de Busquoy sur le Rin entre les fort de S. Albert et S. Isabell. en l'an 1605. / Aussy at le semy au siege de Rinsberch en l'an 1606. fait par Mre Michie Wauters, lequel est d'une telle force et assenrance que le Roy et asseure dy passer vn grant de Canon deisus.

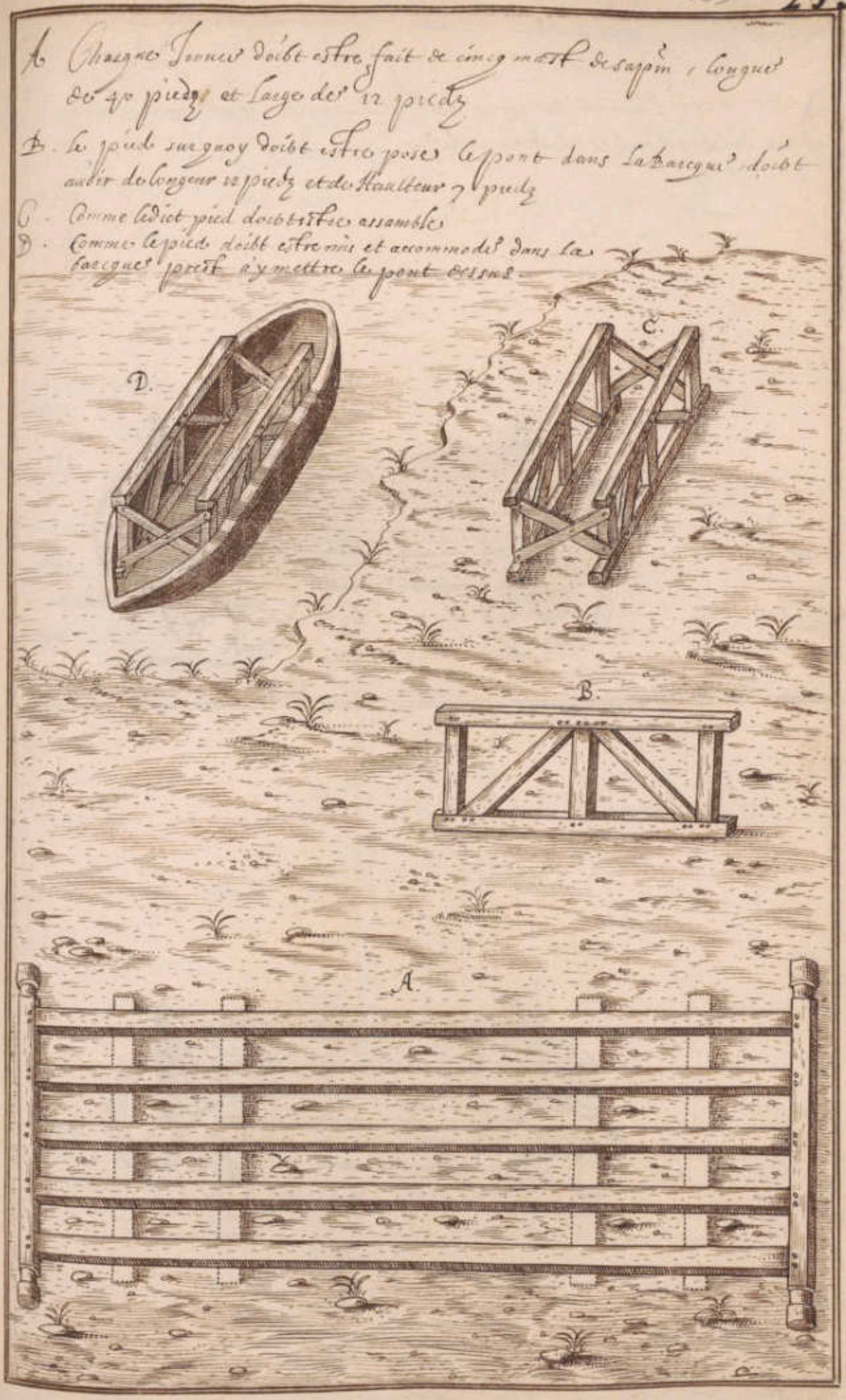


A. Chaugre Jonnes doibt estre fait de cinq mast de sapin, longues de 40 piedz et large de 12 piedz

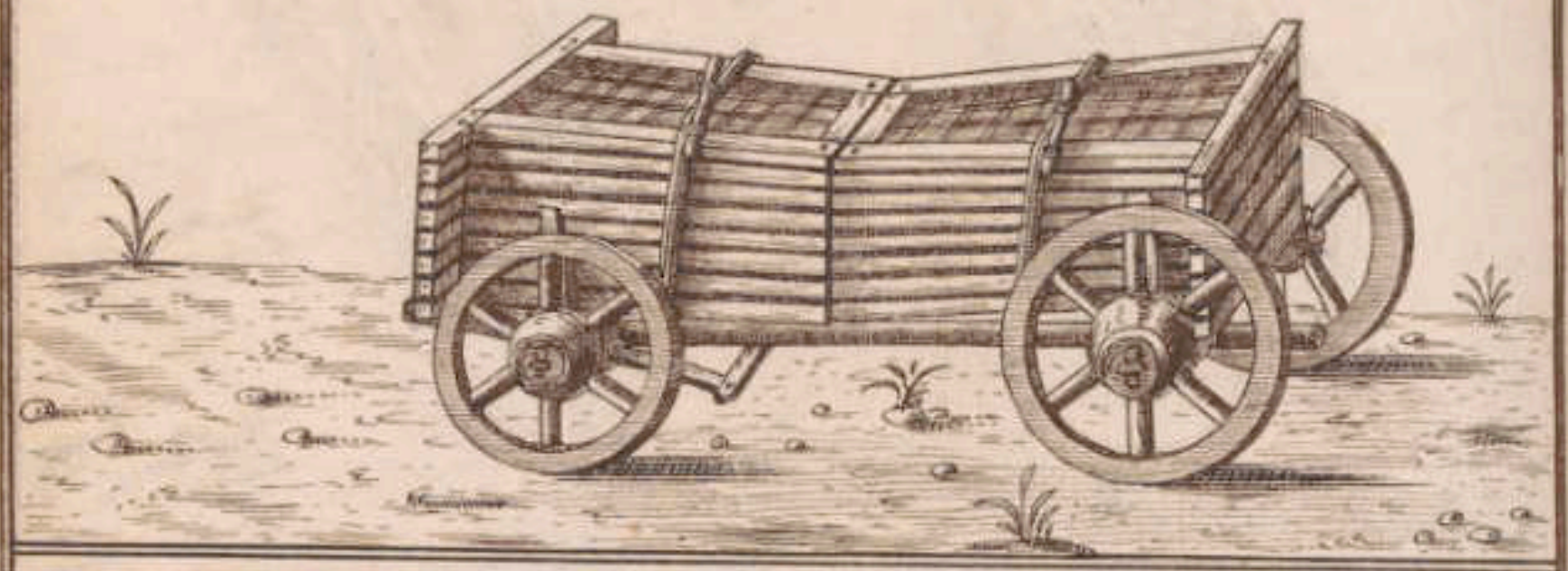
B. le pied sur quoy doibt estre poses le pont dans la Baeque doibt avoir de longeur 12 piedz et de hauteur 7 piedz

C. Comme ledict pied doibt estre assemble

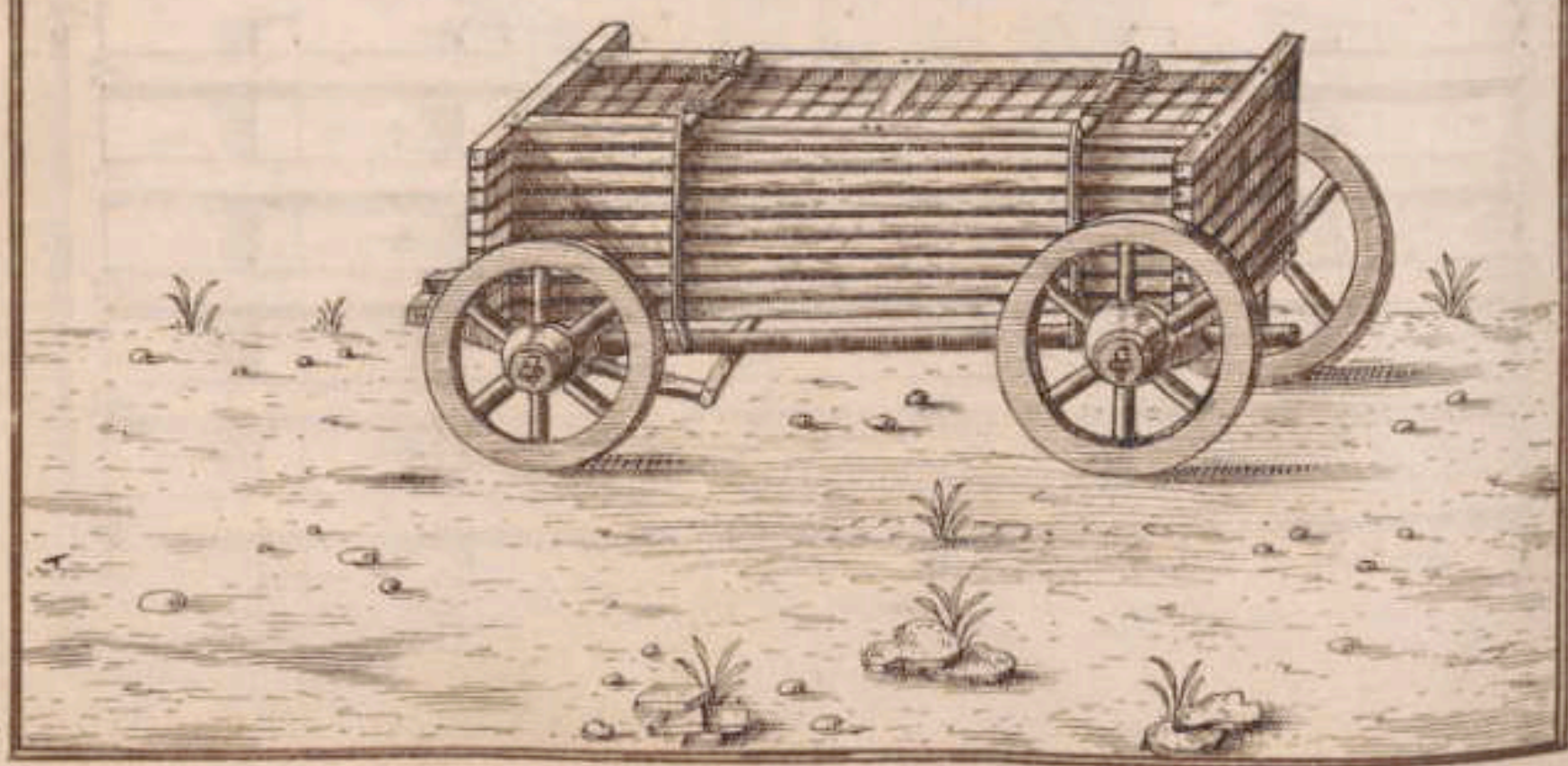
D. Comme le pied doibt estre mis et accommodes dans la baeque prest a y mettre le pont dessus



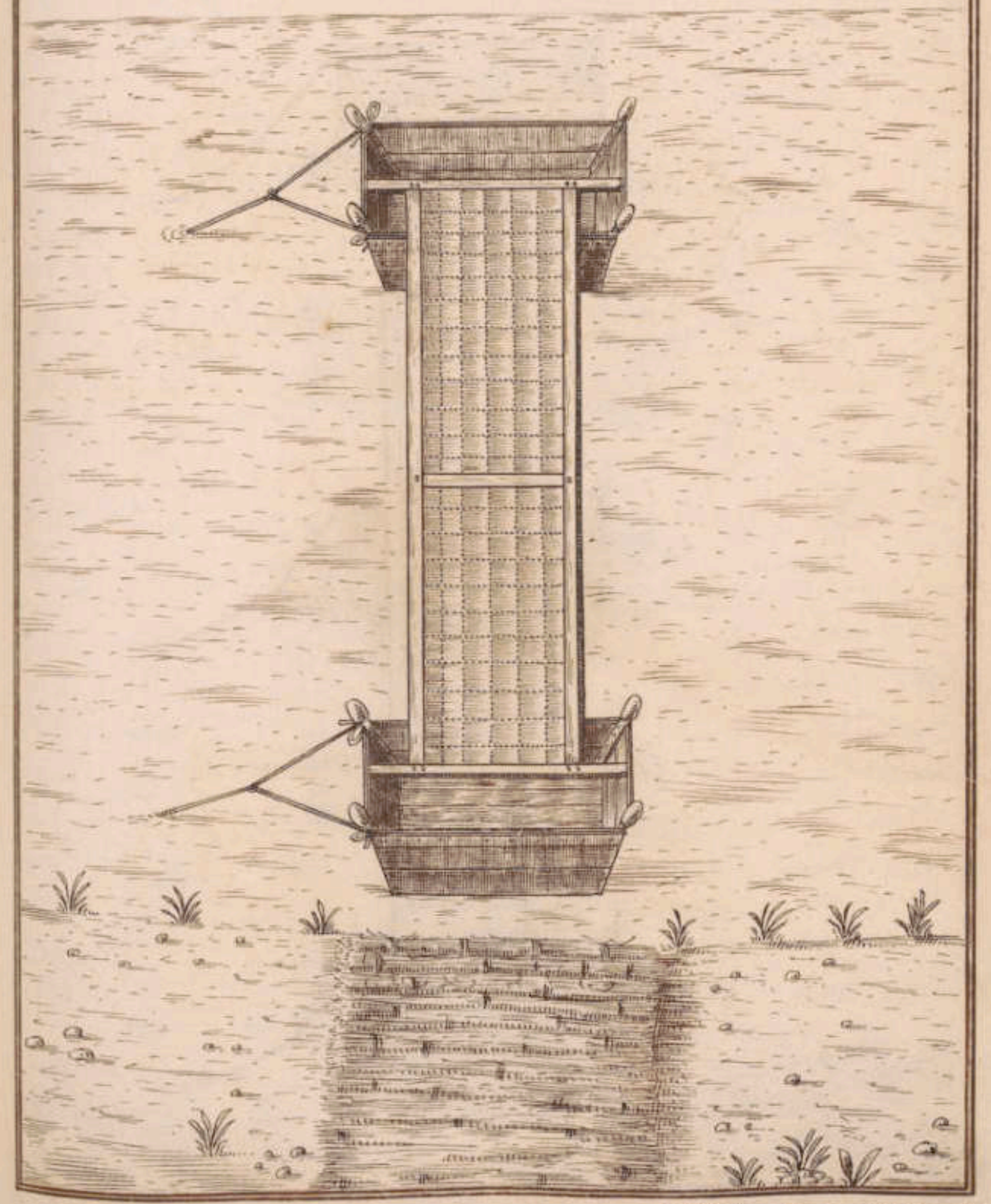
La maniere d'amener vn pont de Bois sur des Chariots. et de quel facon doibt estre lie et accommode.



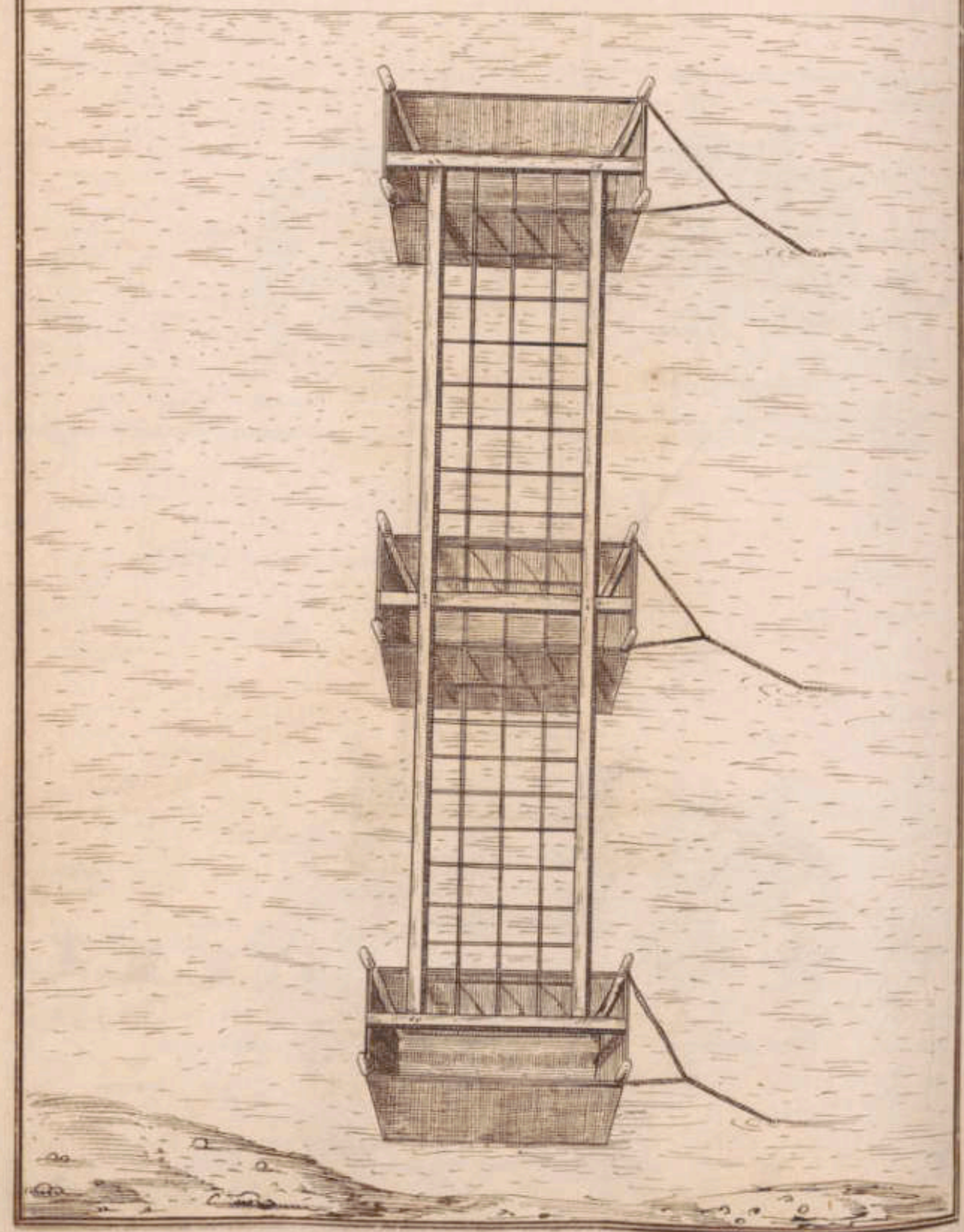
Autre maniere d'amener les ponts de Bois



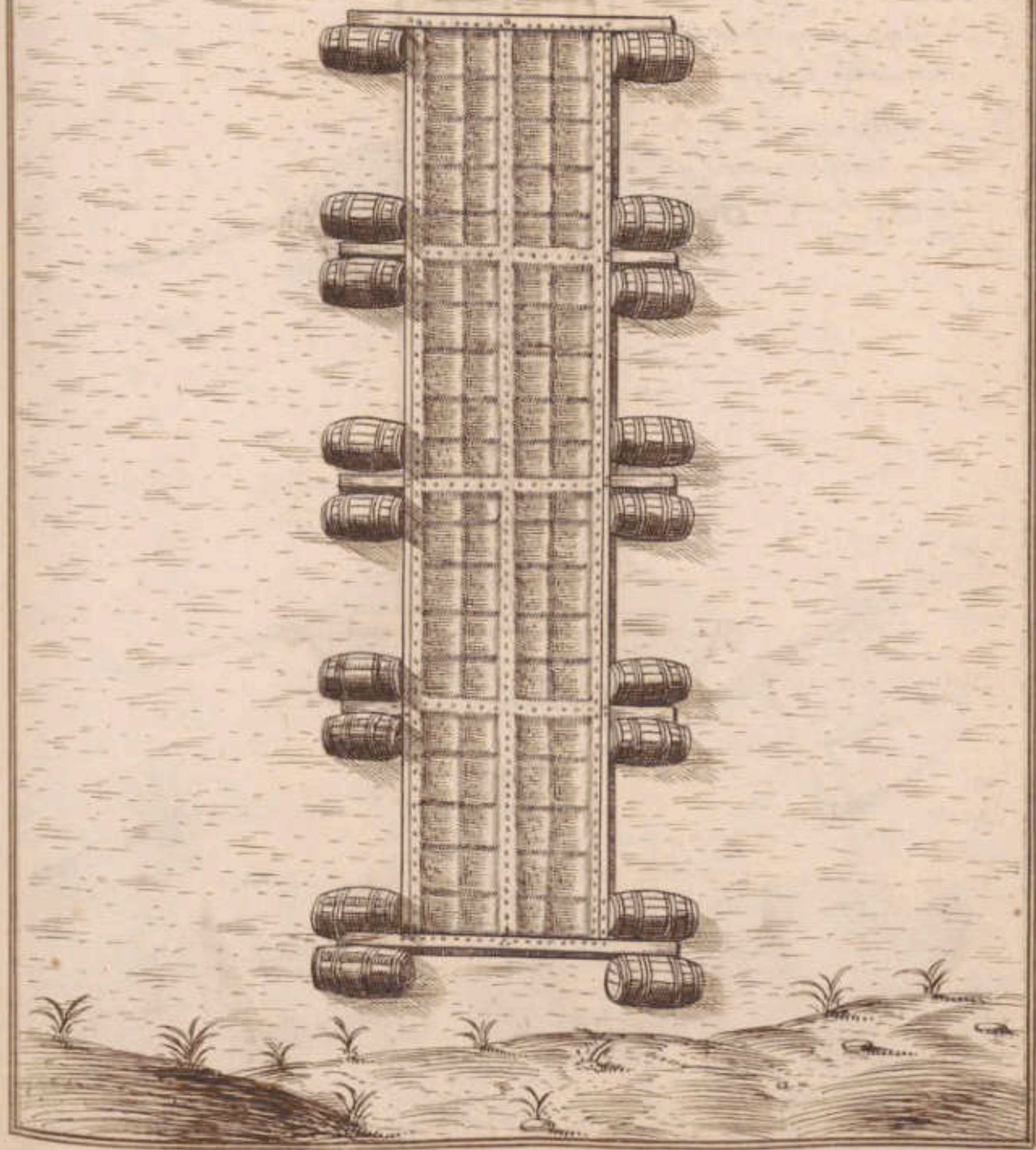
Pont de Soles lequel chasque trouce a de temir de longeur 20 pieds et de largeur 8 pieds, lequel doibt estre fait de mairt de sapin montes sur des bacqaus carrees longue de 9 pieds, et large de quatre pieds et demy.



Pont de Soile mentos sur des barques Carrees, lequel doibt tenir de longeur 25 pieds a 18 barques trouees, et de largeur 7 pieds. et les Bacqz ont de tenir de longeur 8 pieds et de largeur quatre pieds.

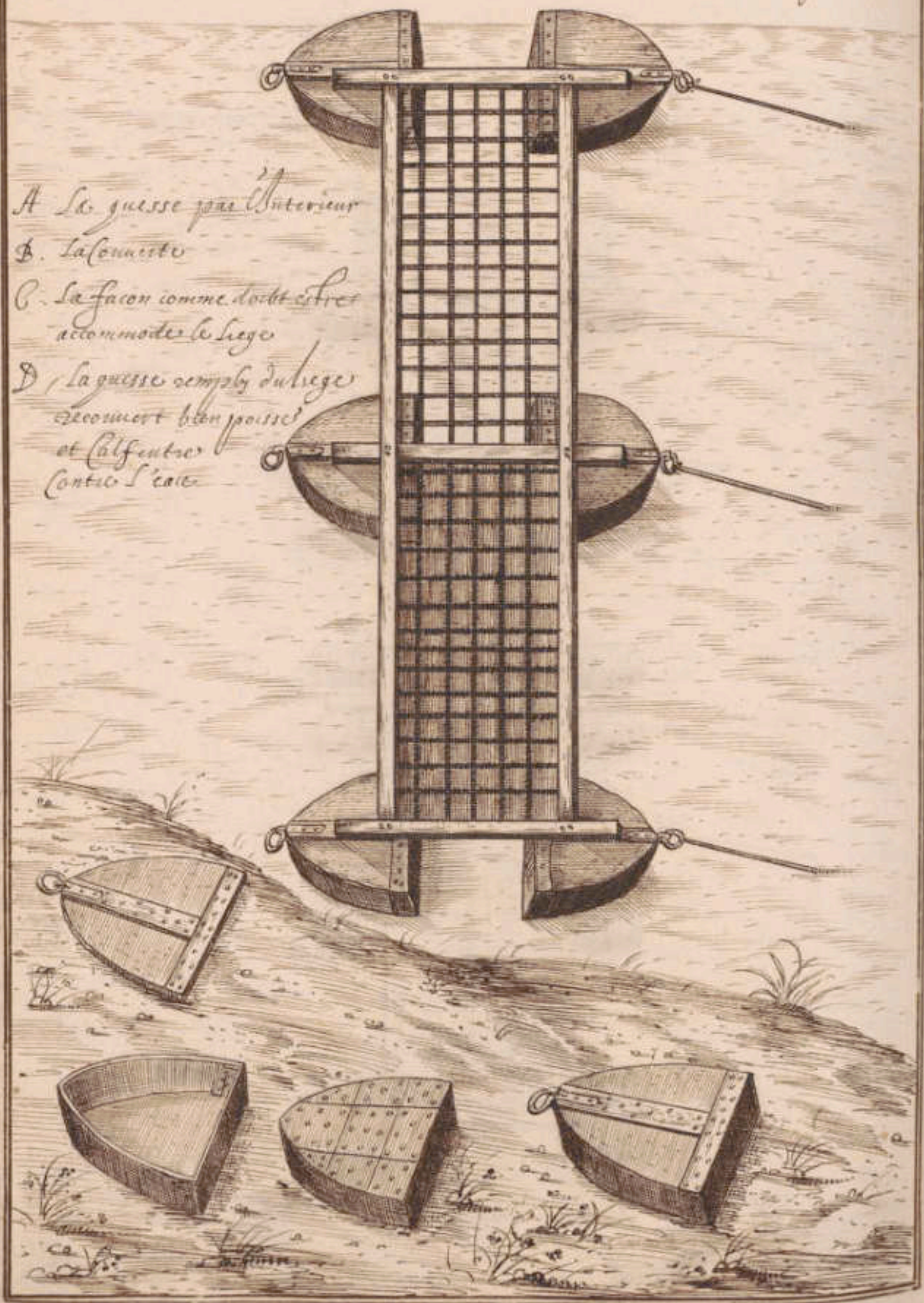


Pont de Soiles monte sur des Tonneaux posez et Accomodez pour pouvoir tirer l'eau, lequel doibt tenir a chasque trouce en longeur 30 piedz et de largeur 8 piedz.

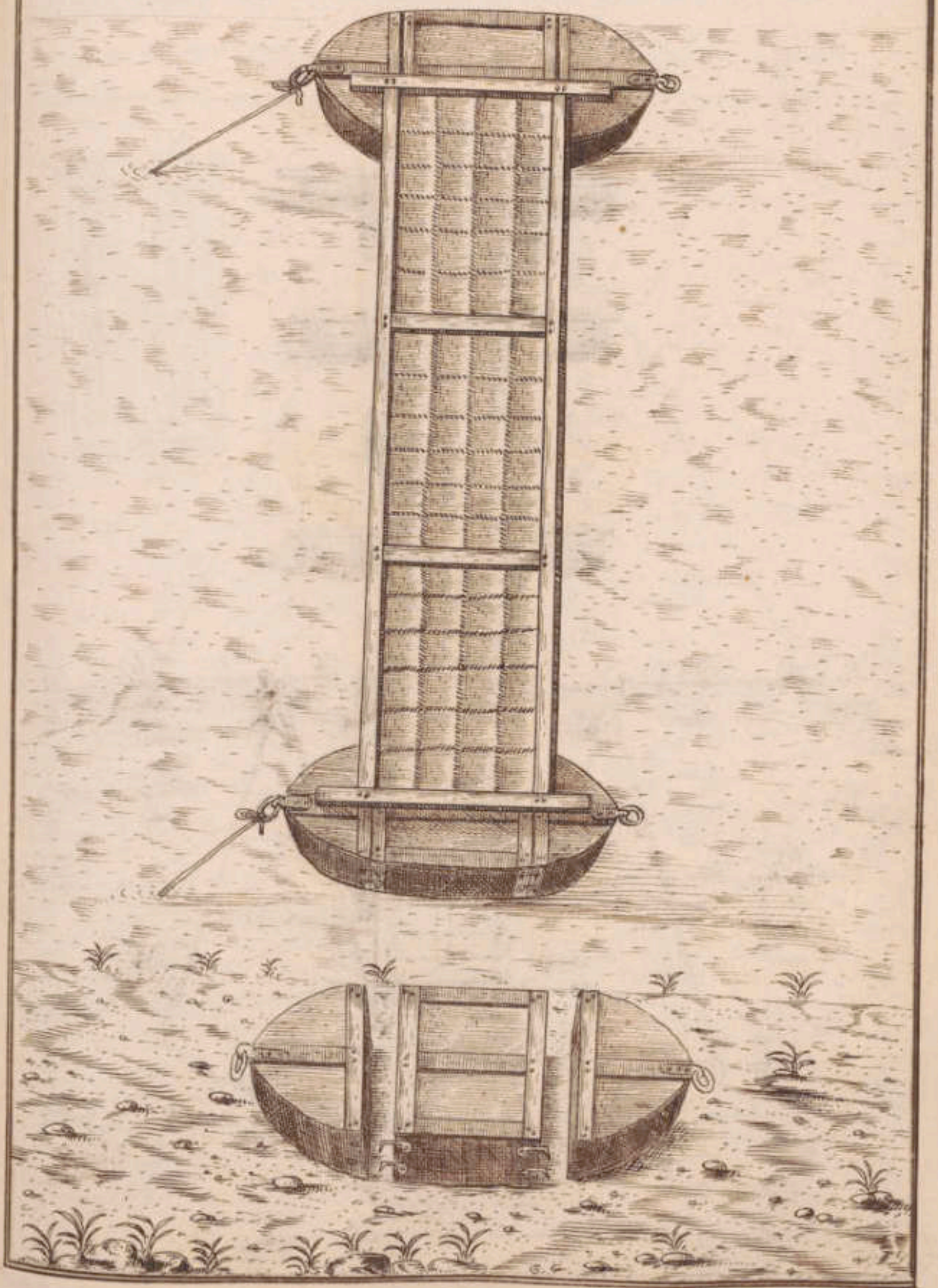


Dont des toile cousu sur des Cordages Groisses et monte sur Sdemy baigne
Remply de Liege bien poisse et Calfentre contre leau ;

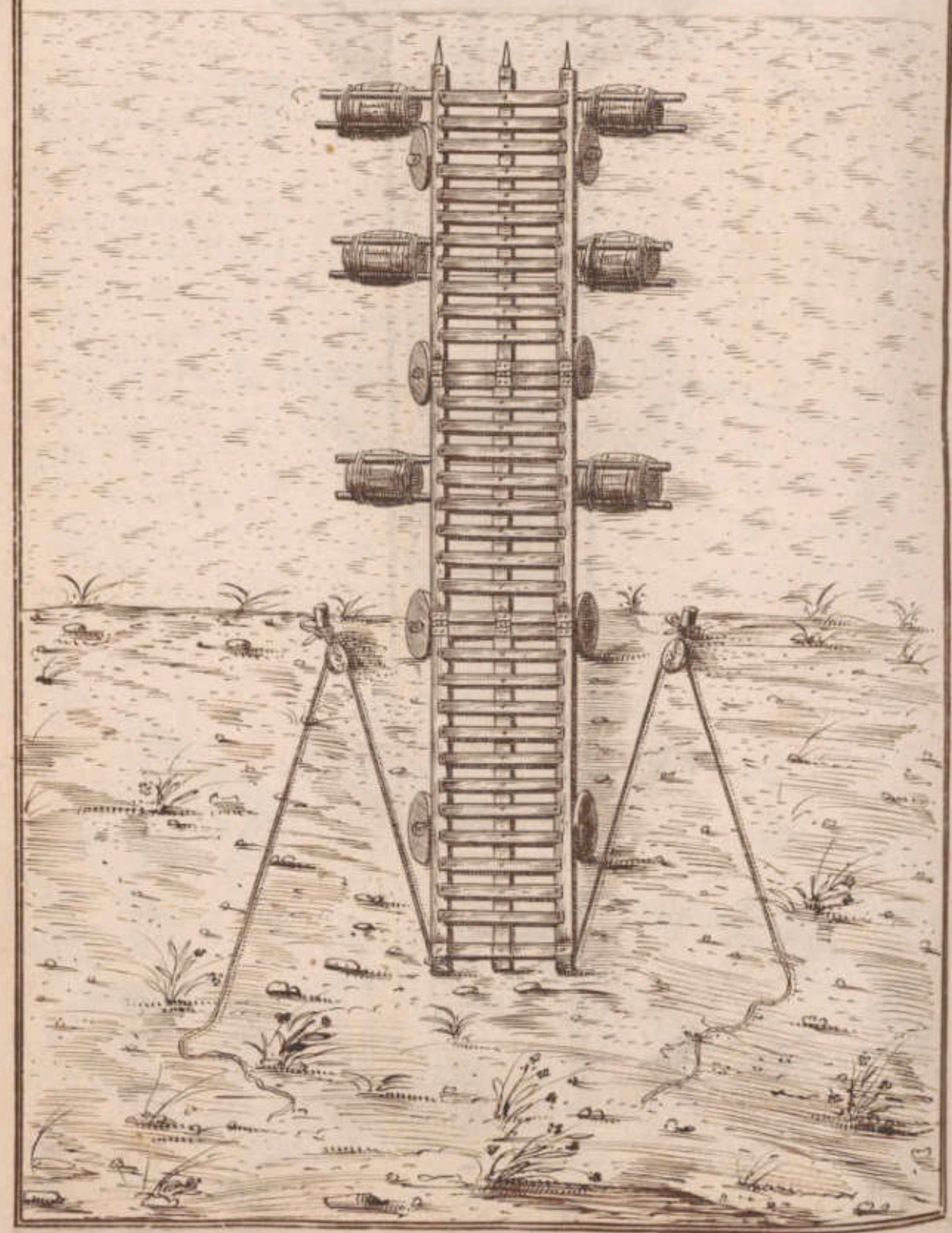
Baigne tronce doibt tenir de longeur 20 pieds et de largeur 6 pieds.



Pont de Soite Lequel chasque trouce doibt tenir en longeur 20 pieds et de largeur 6 pieds, monte sur des Barcques qui se demontent en trois pieches comme Icy la dessigne.

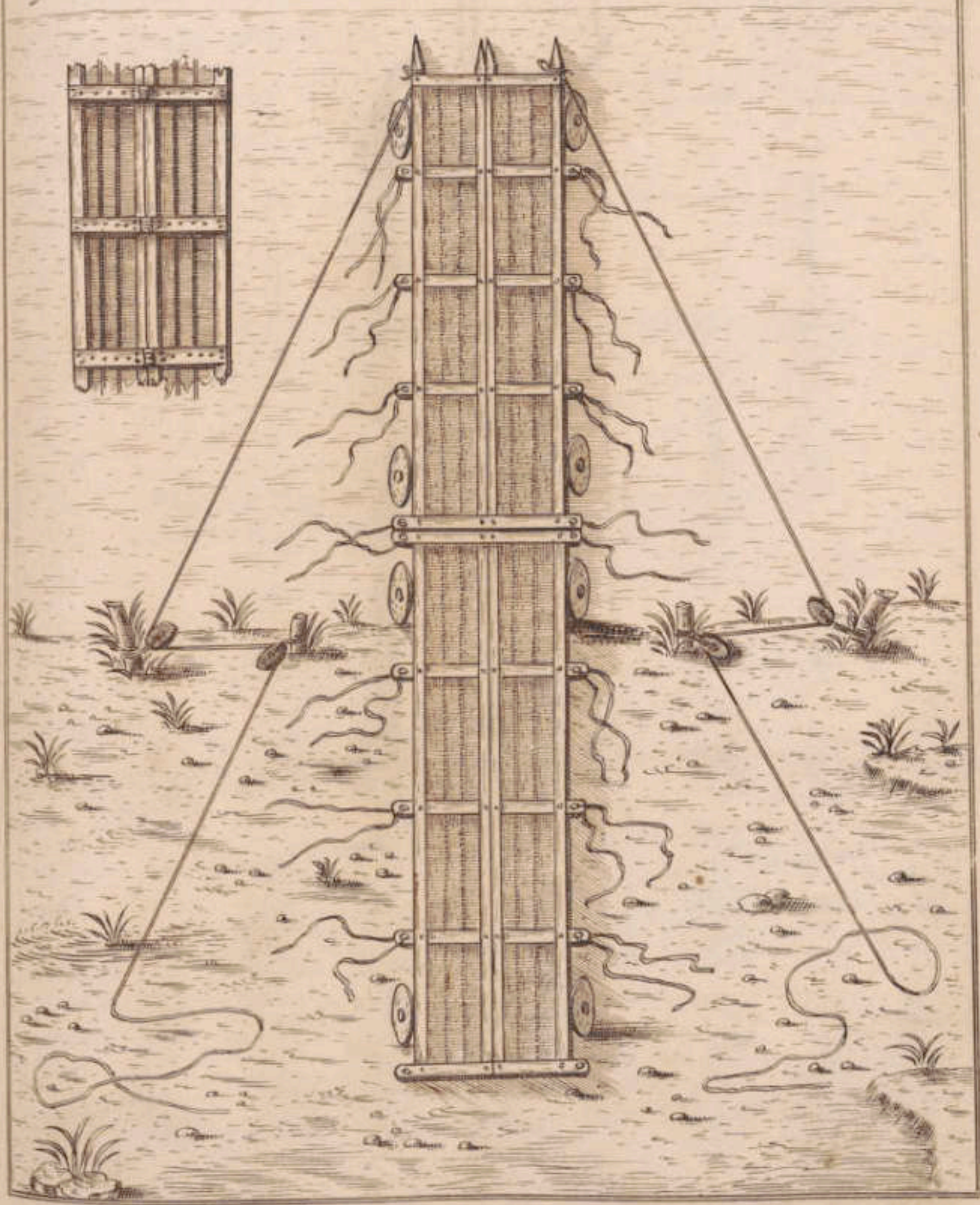


Un pont fait a la legiere, monte sur des Tonneaux propres pour entreprises lequel doibt tenir en longeur Marqué trouce 22 pieds et de largeur 6 pieds.

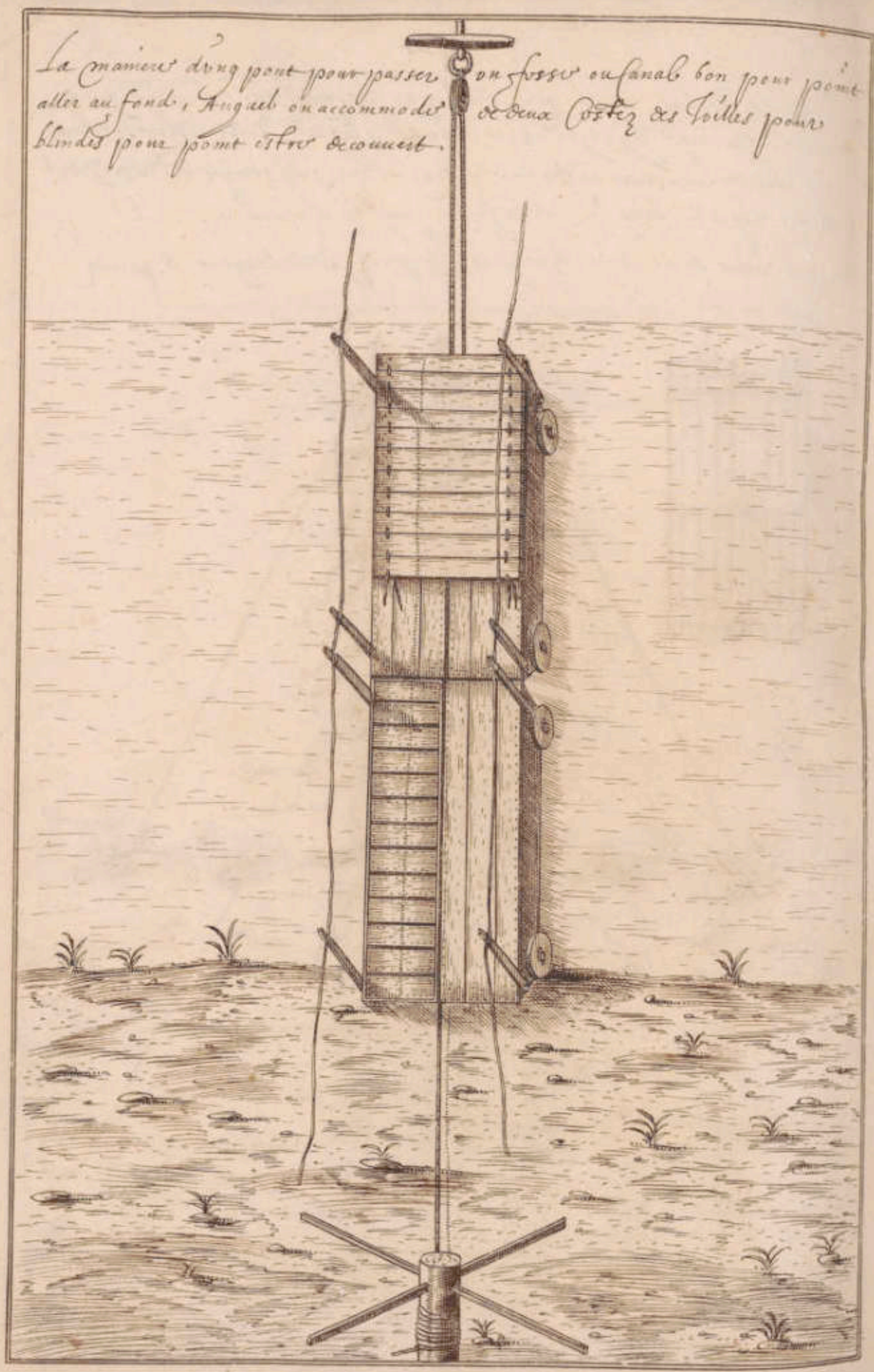


Pont des Cenches, lequel se plies par les meilleurs propres pour passer Infanterie aquelques entreprises, lequel doibt estre soustenu dans l'eau des Tonneaux ou Bottes de Pong aussy en temps des necessités de Bottes de paille bien lies, et la facon pour le retirer.

Largeur tienne doibt tenir de longeur 22 pieds et de largeur 8 pieds



La maniere d'vng pont pour passer vn fosse ou canal bon pour point aller au fond, Auquel on accommode de deux Costez des Toilles pour blindes pour point estre decouuert.



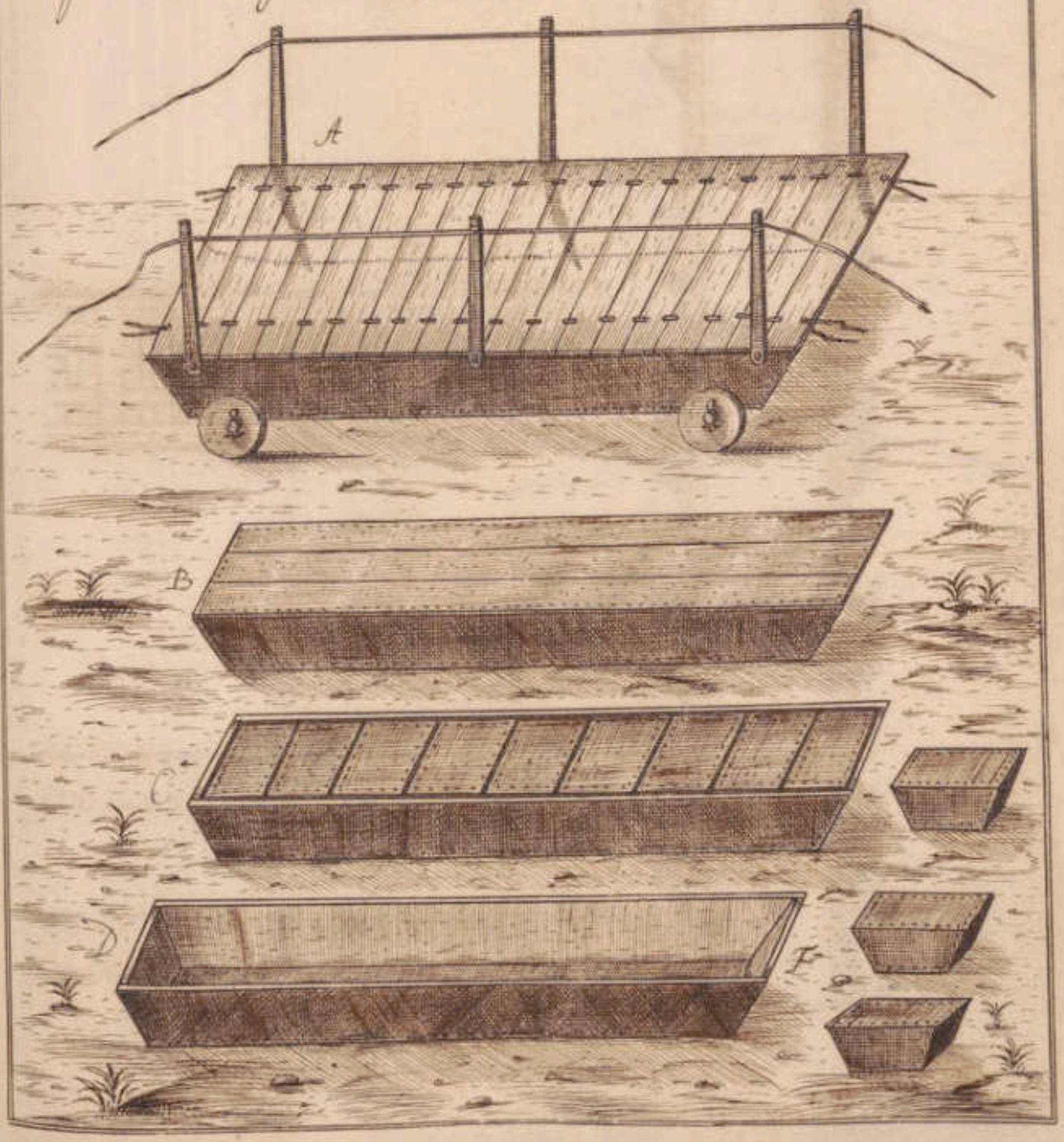
A Chaisne trouee double doibt estre large en Haut six piedz

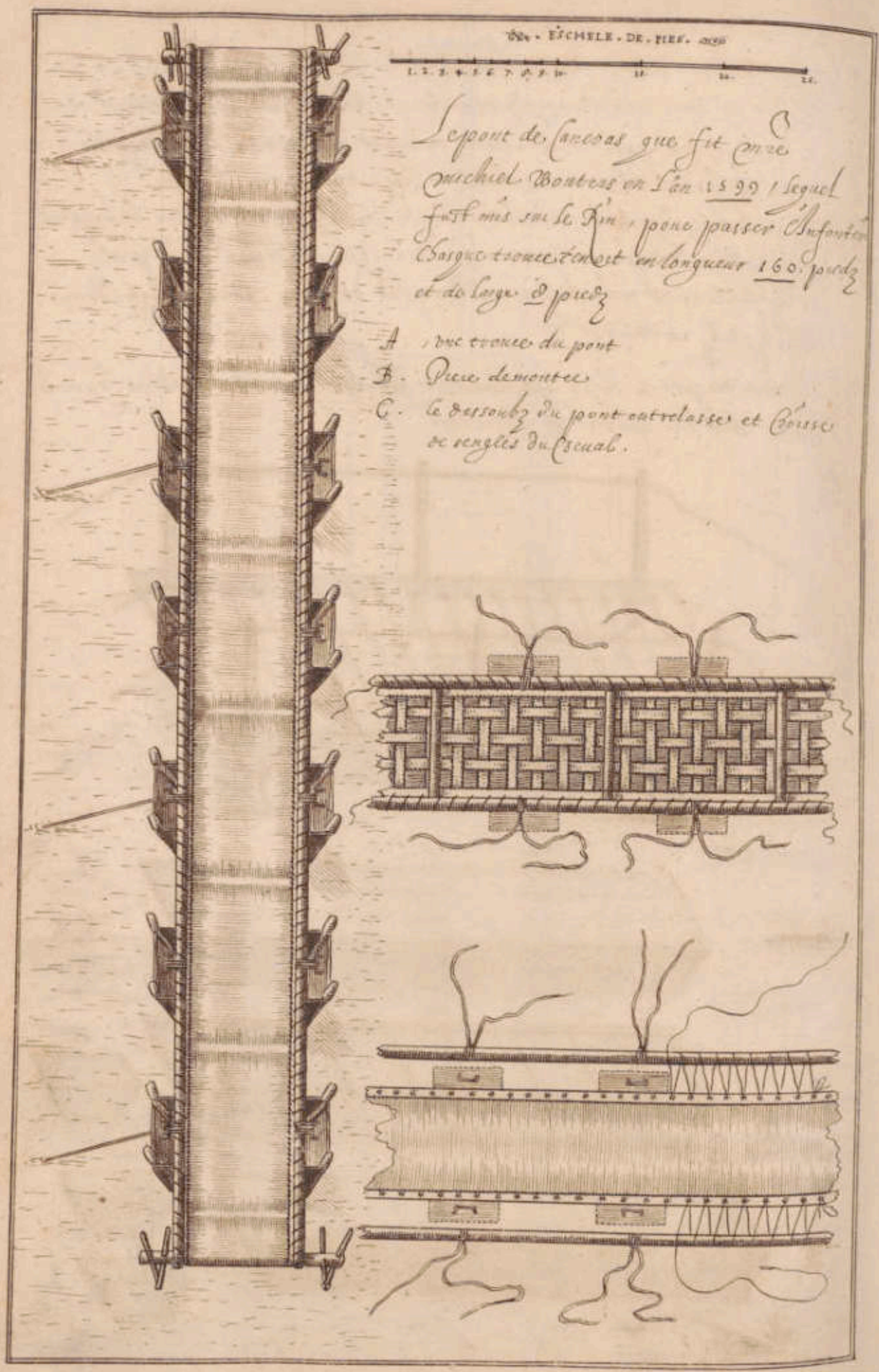
B. La mie au st une trouee simply et enclouee bien poissee et Calfeutree

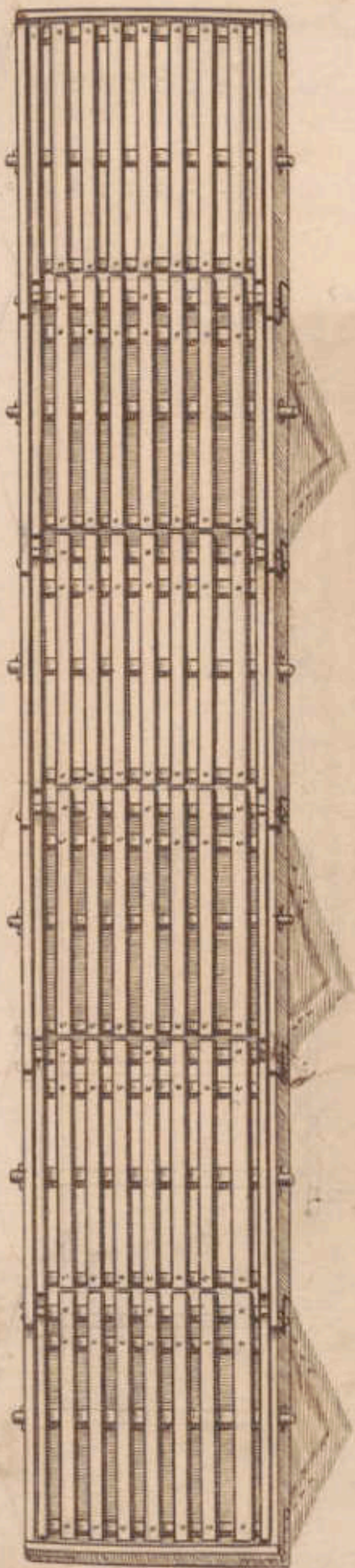
C. La maniere pour agencer et mettre en ordre les petits bacqz desquelz doibt du mesme estre bien poissé et Calfeutre contre l'eau

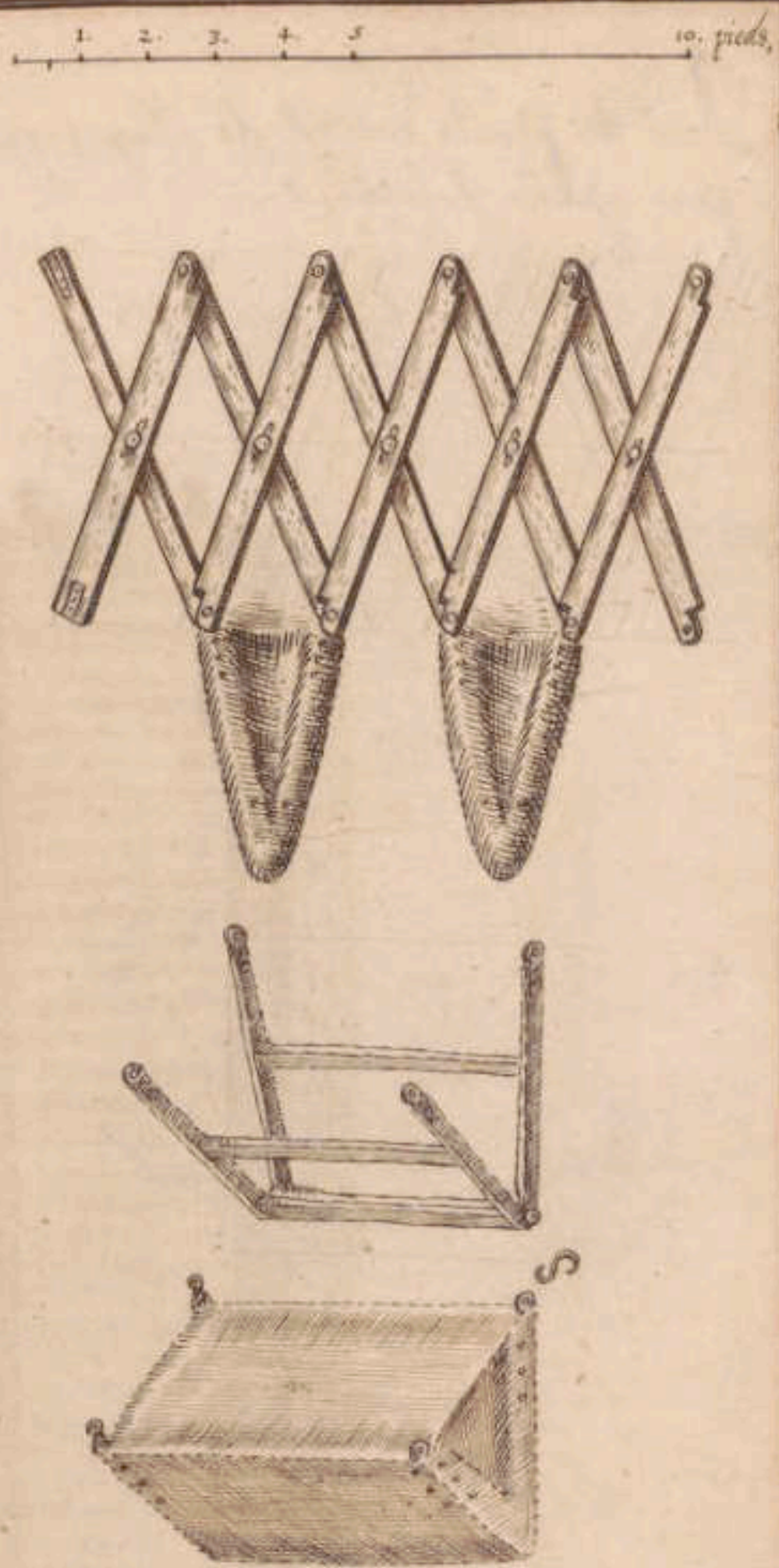
D. Le grand bacq lequel doibt tenir en longueur 25. piedz, selon la longueur des planches de sapin et doibt avoir de large en Haut trois piedz et au fond doibt tenir de largeur un pied et demy, et de profondeur deux piedz et demy.

E. La façon des petits bacqz qui doibuent estre mis en ordre dedans le grand apres estre bien poissé et Calfeutre

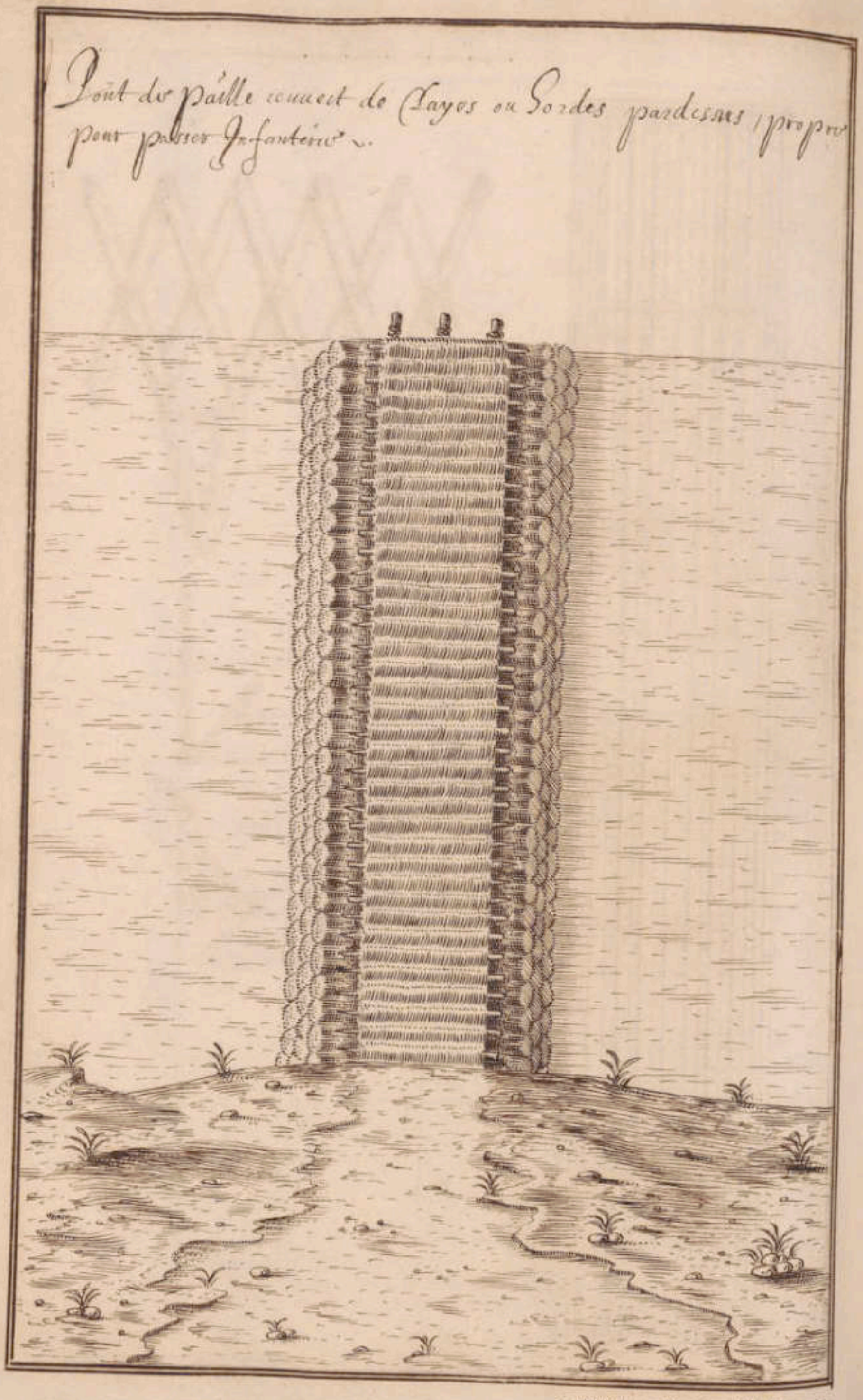




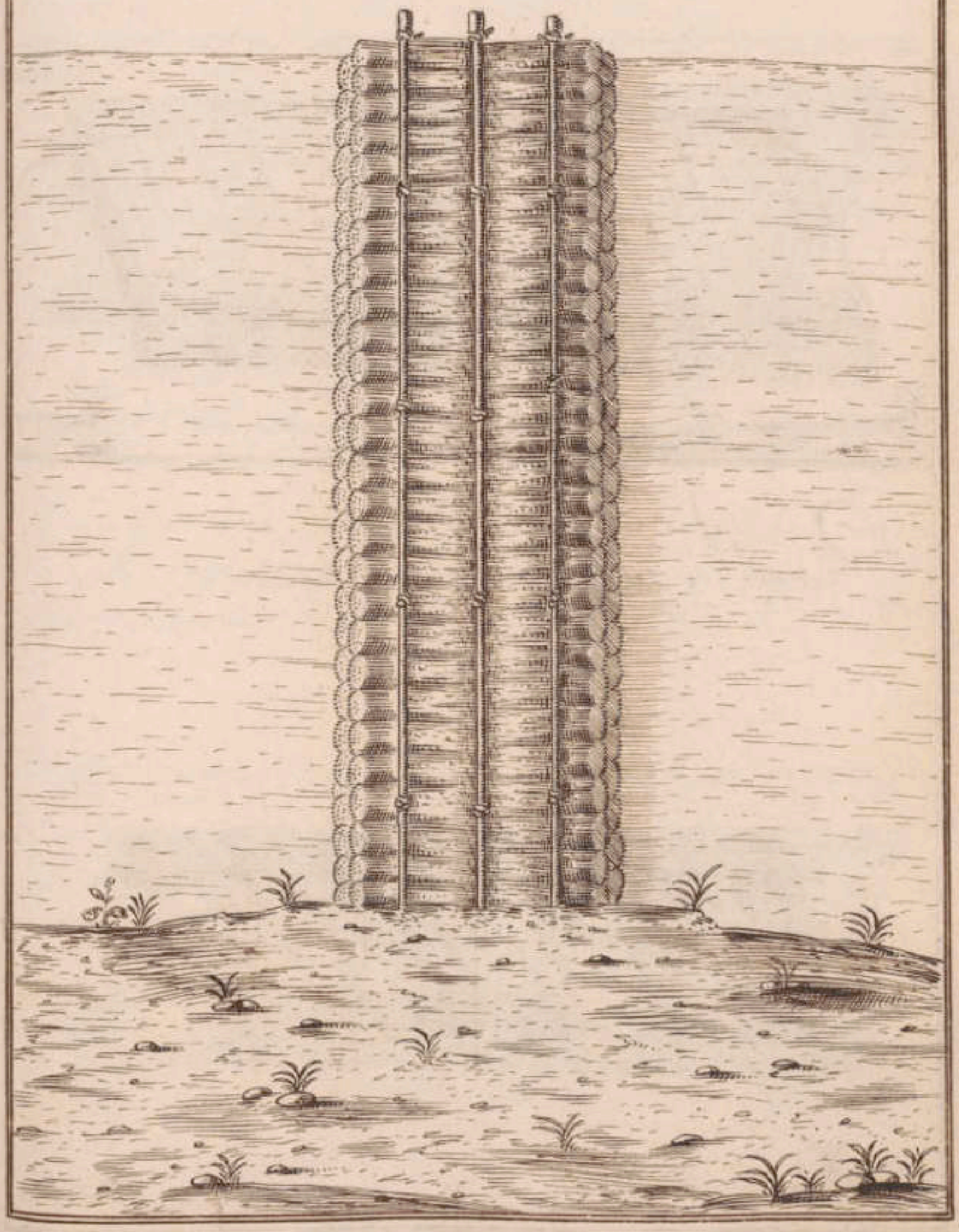




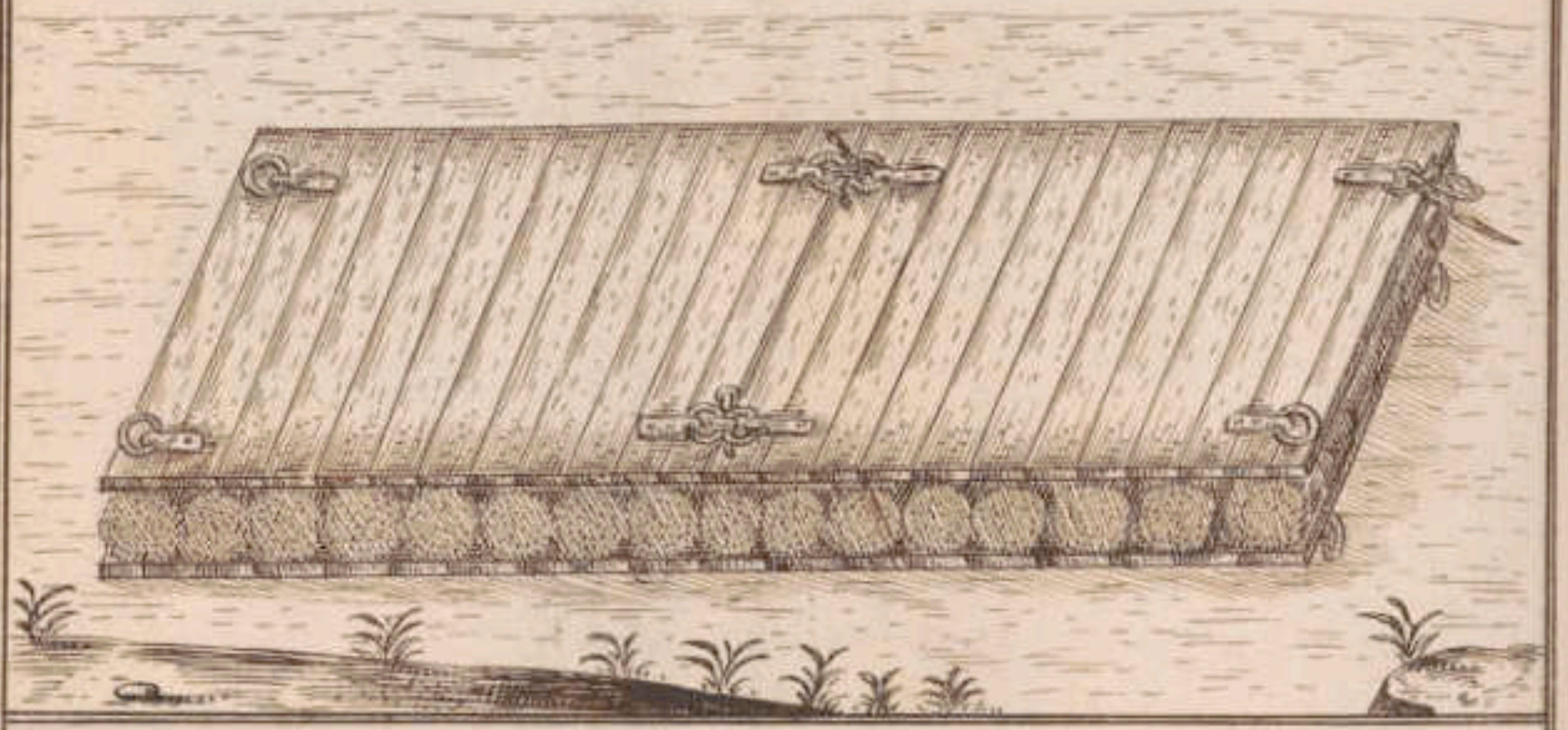
Pont de paille comme de Clayes ou Fordes pardessus, propre pour passer Infanterie.



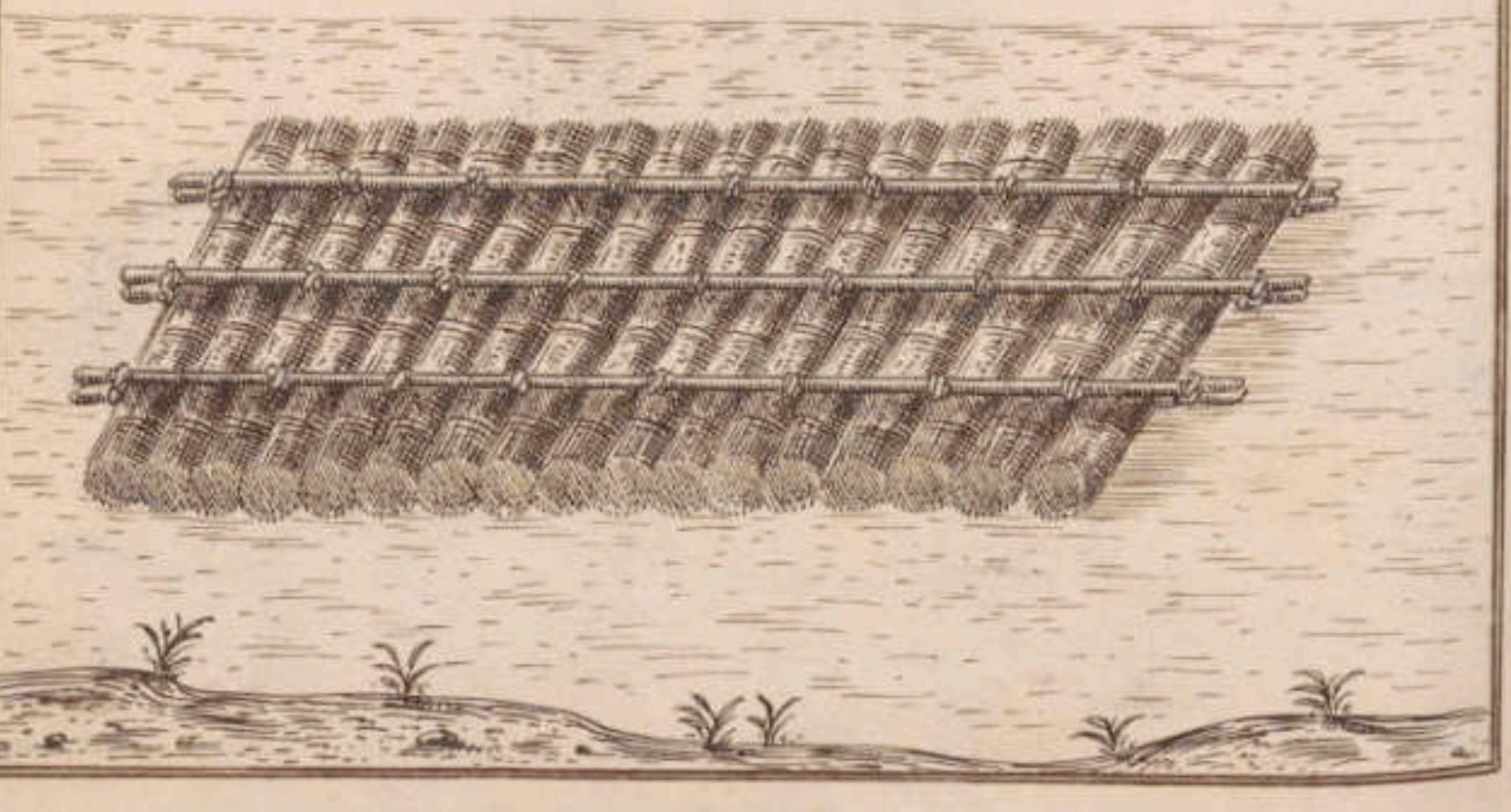
Pont de paille, propre a passer Infanterie en temps de necessite.



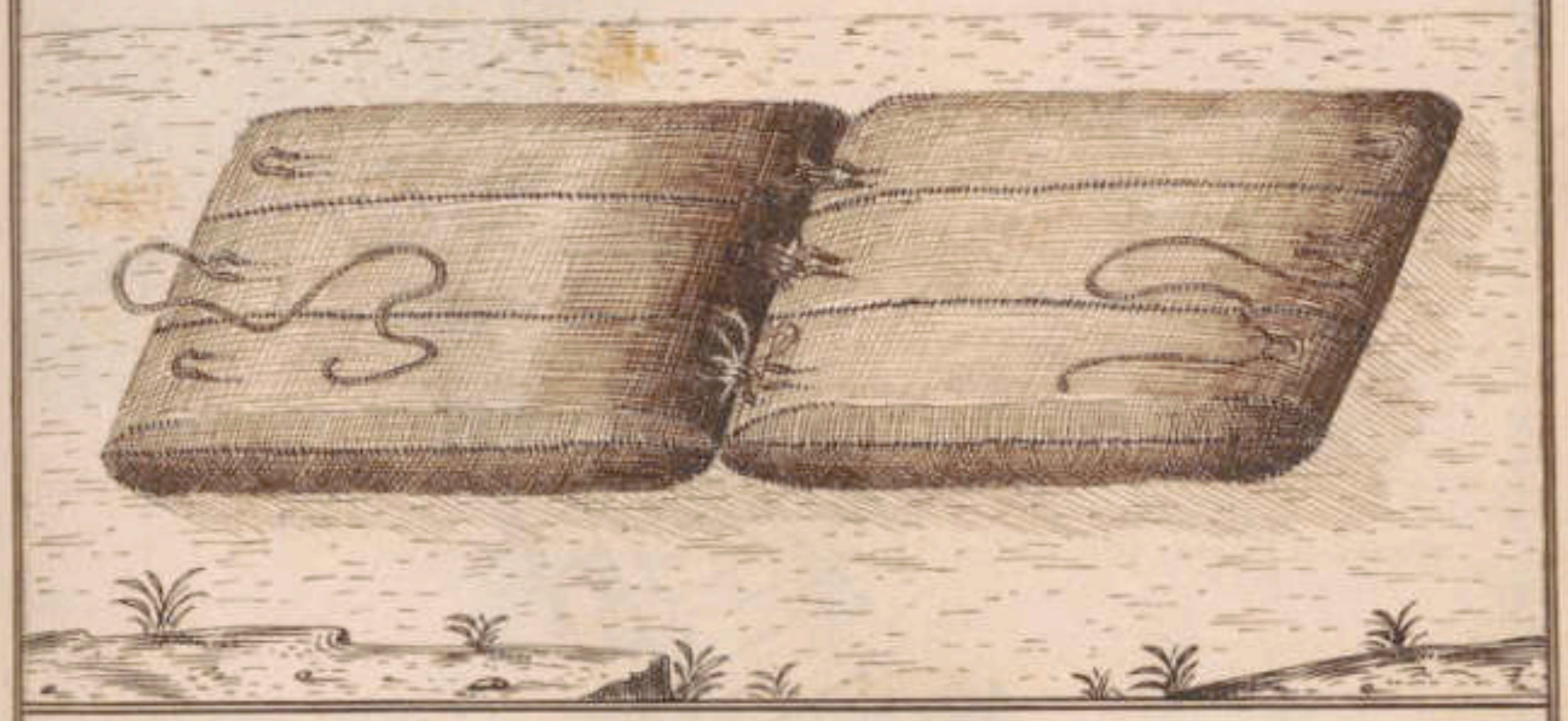
Pont de Bong armé de planches de deux Costes, lequel a seruy à Ostende pour passer plusieurs Canaux; mesmes sur le Canal de S.t Albert, j'ay veu passer un homme à cheval de sens.



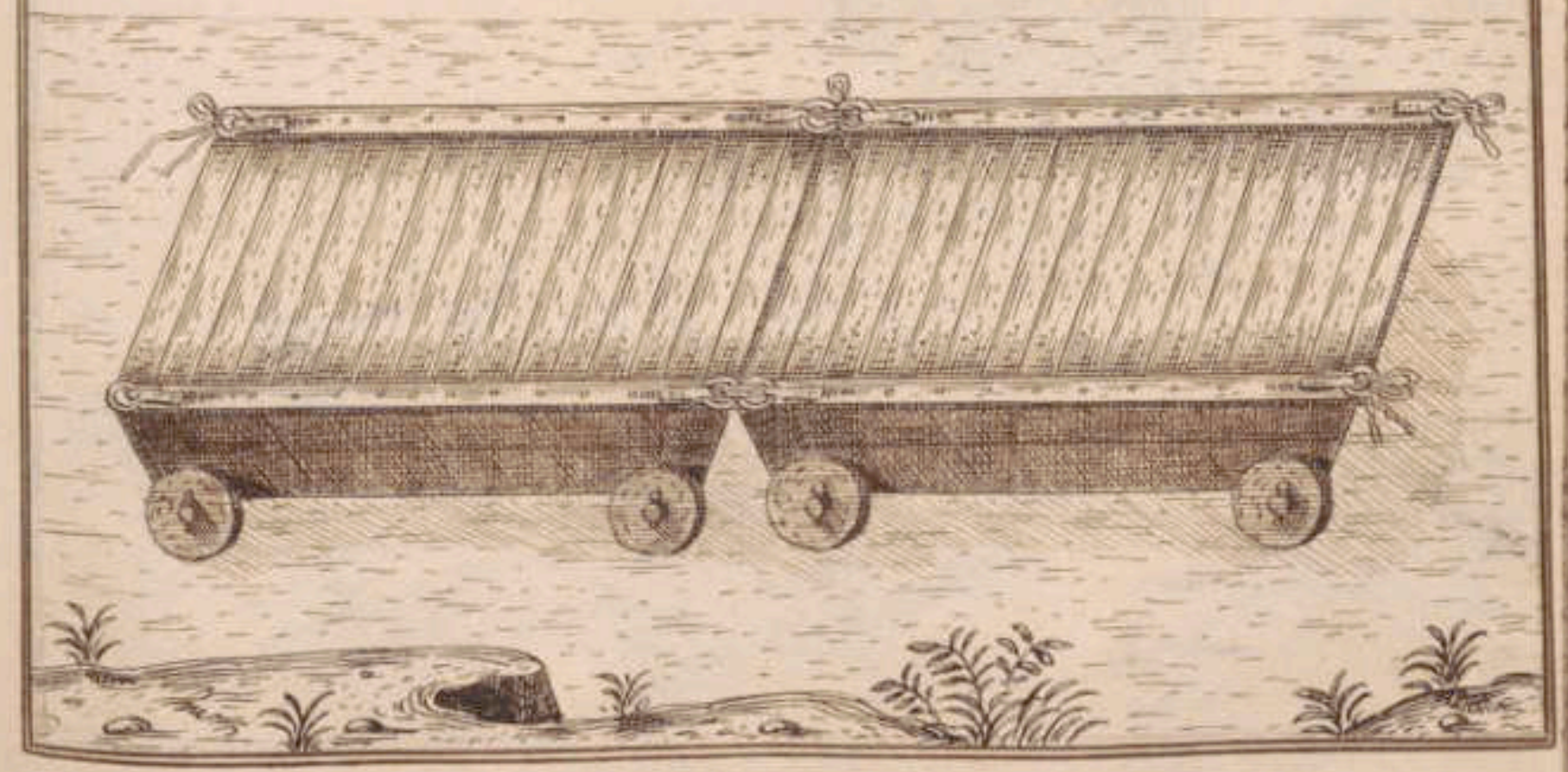
Pont de Bong simple pour passer Infanterie

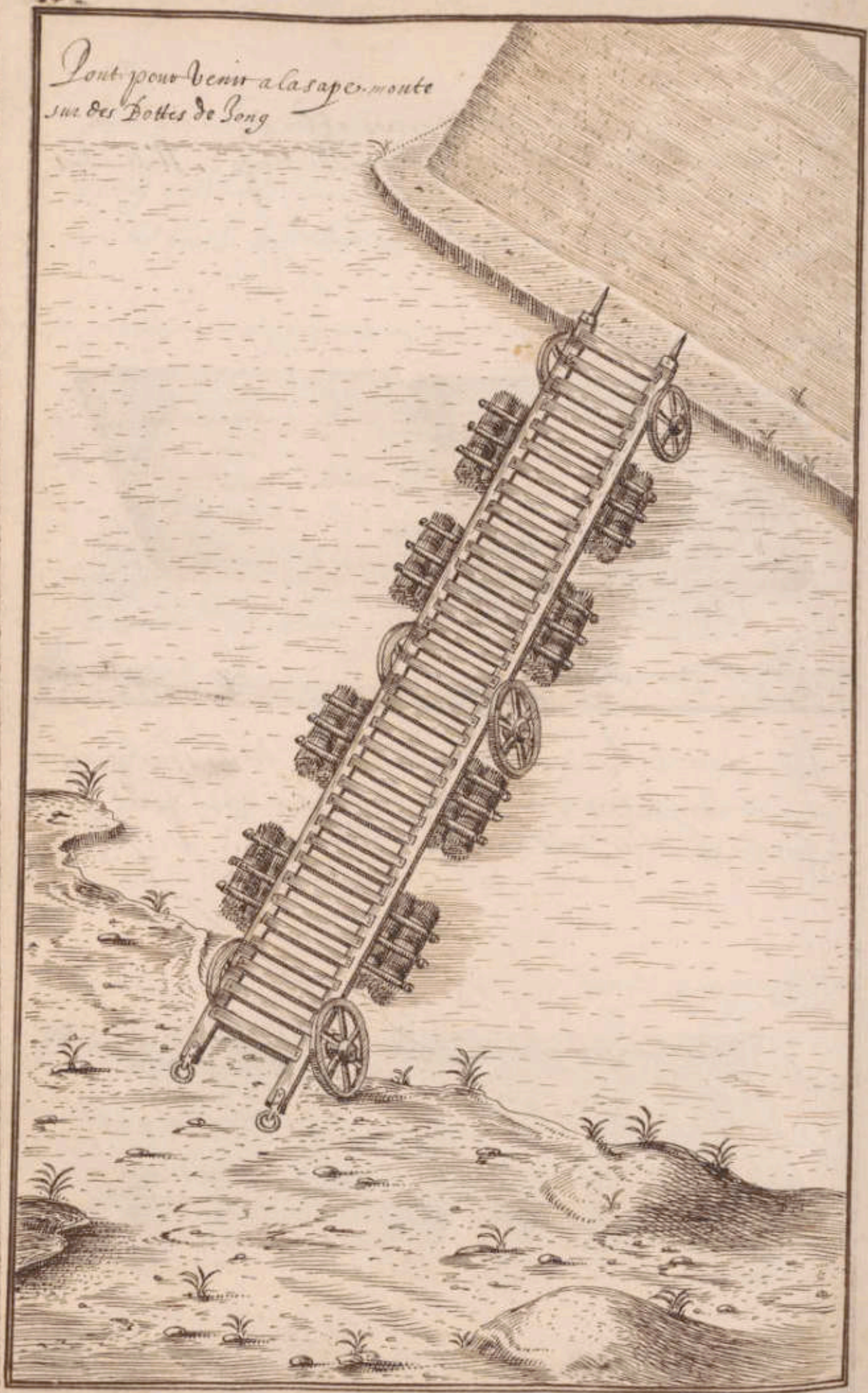


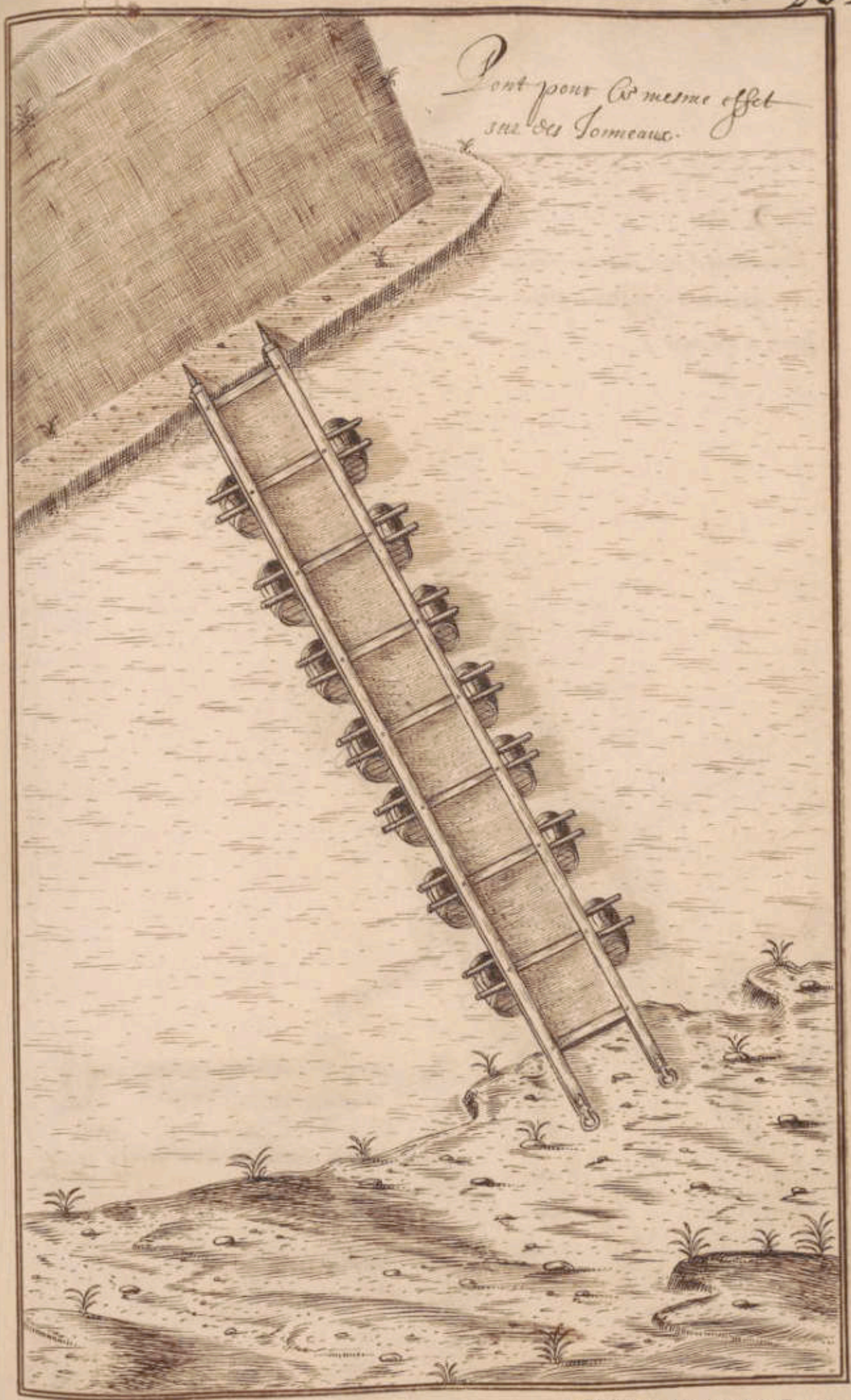
Pont du Pong couvert de toiles cirees affin que l'eau n'en
bout dedans le Pong, de quoy s'en sertent Beaucoup les Hollandois

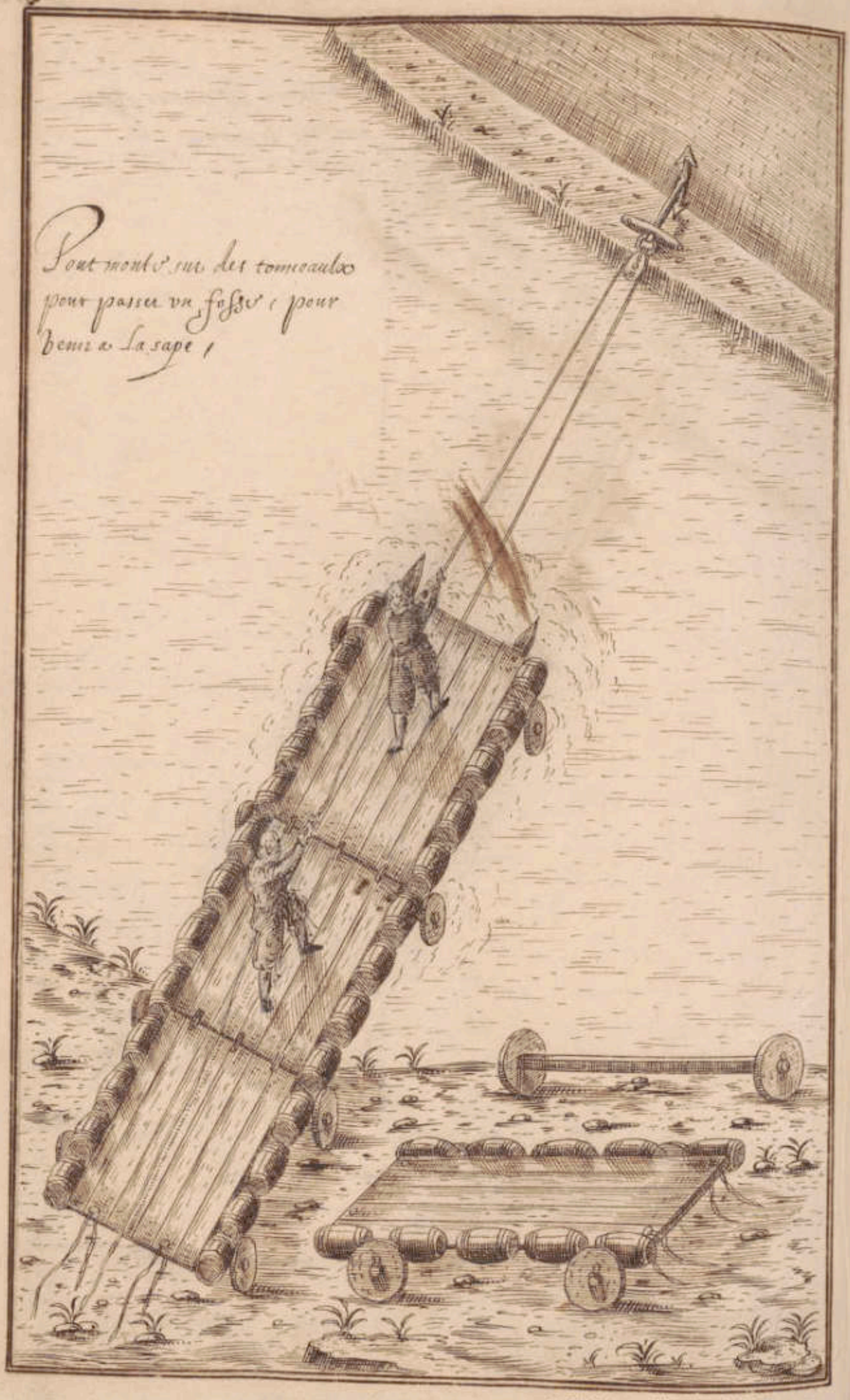


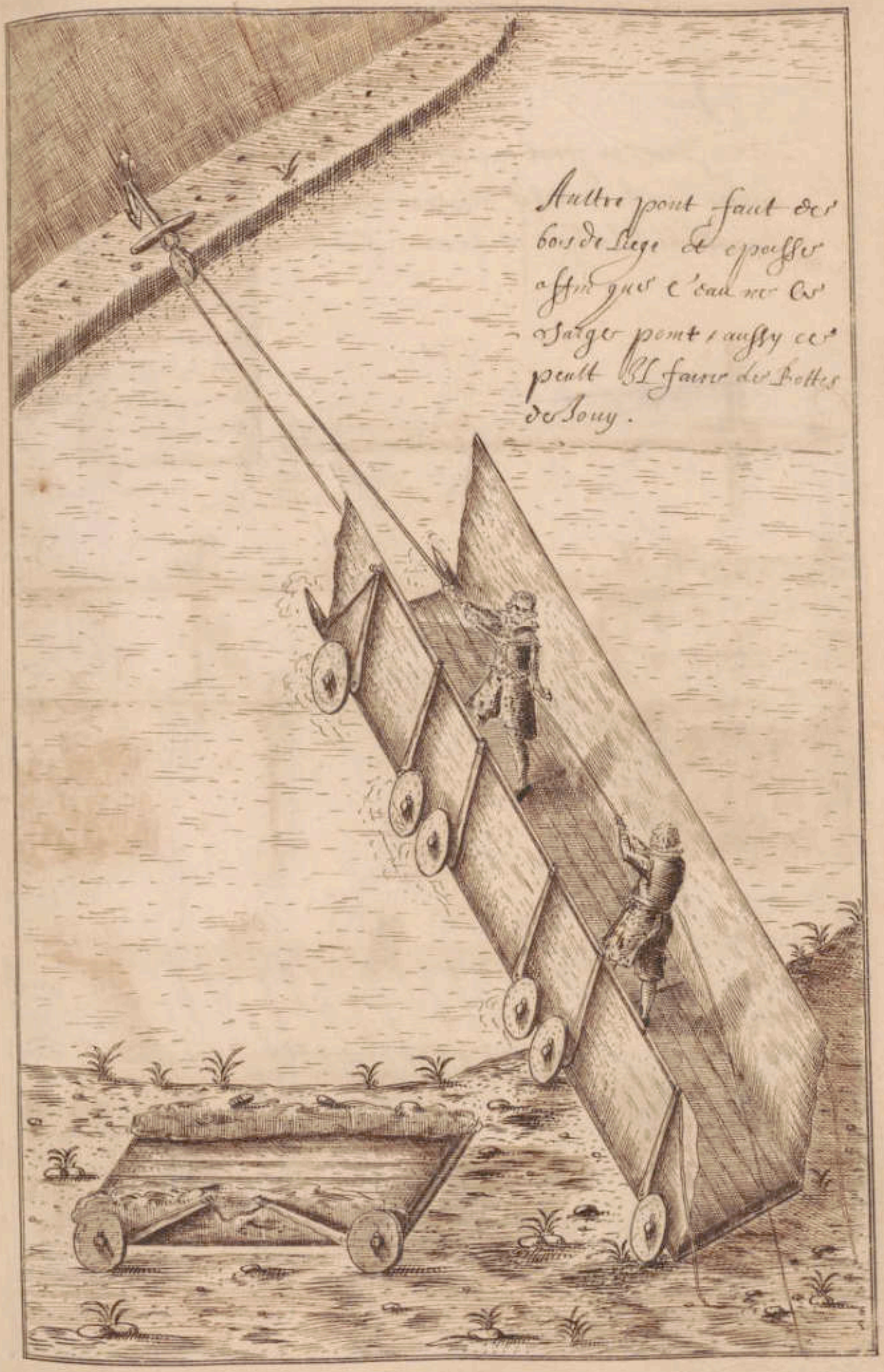
Autre pont du Pong accommodé dans de Casses de Bois bien poussé
et monté chasque trouce sur quatre Roulleaux, lequel pont
a fait bon service dans les Canaux d'Ostende.

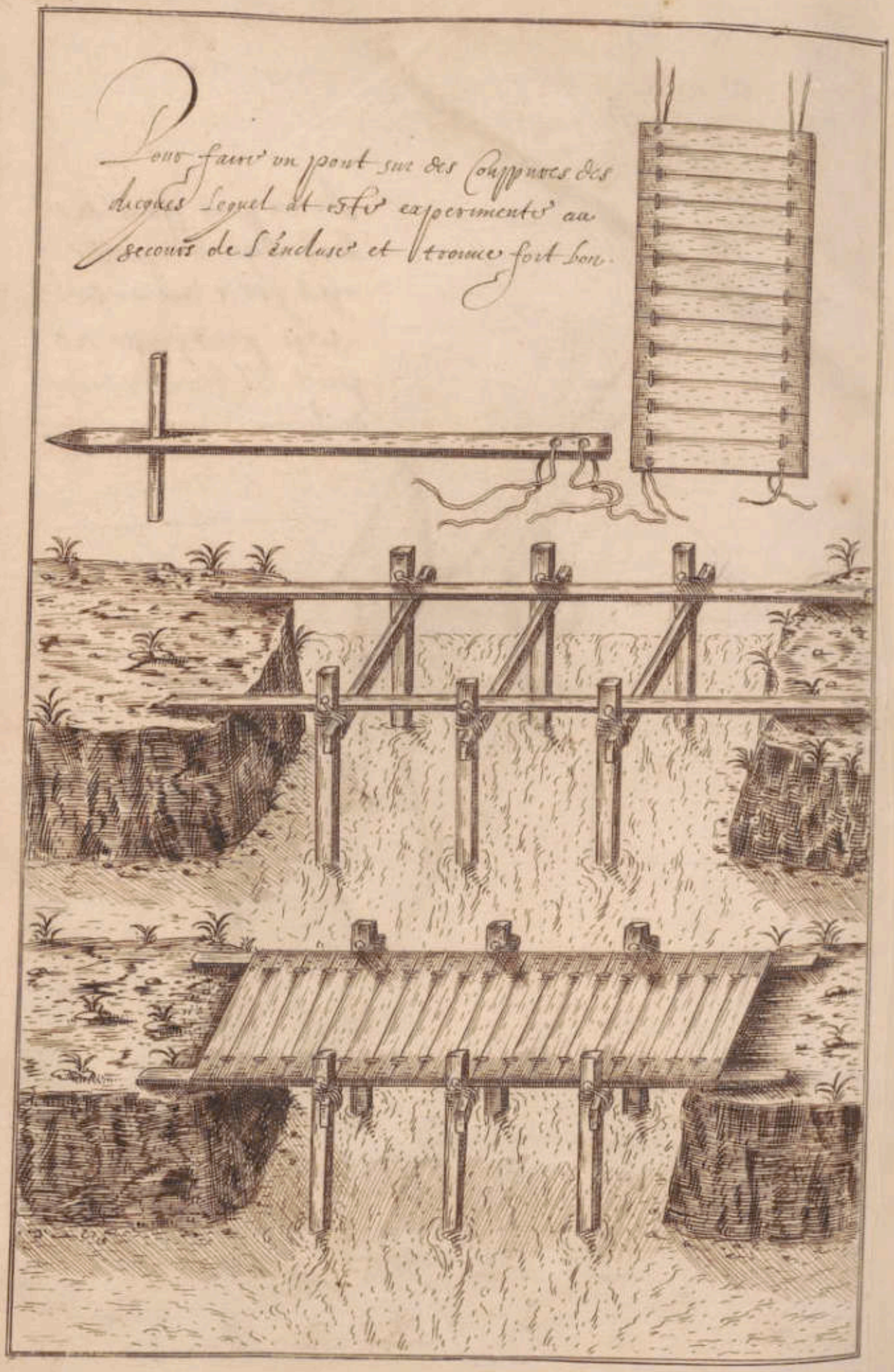




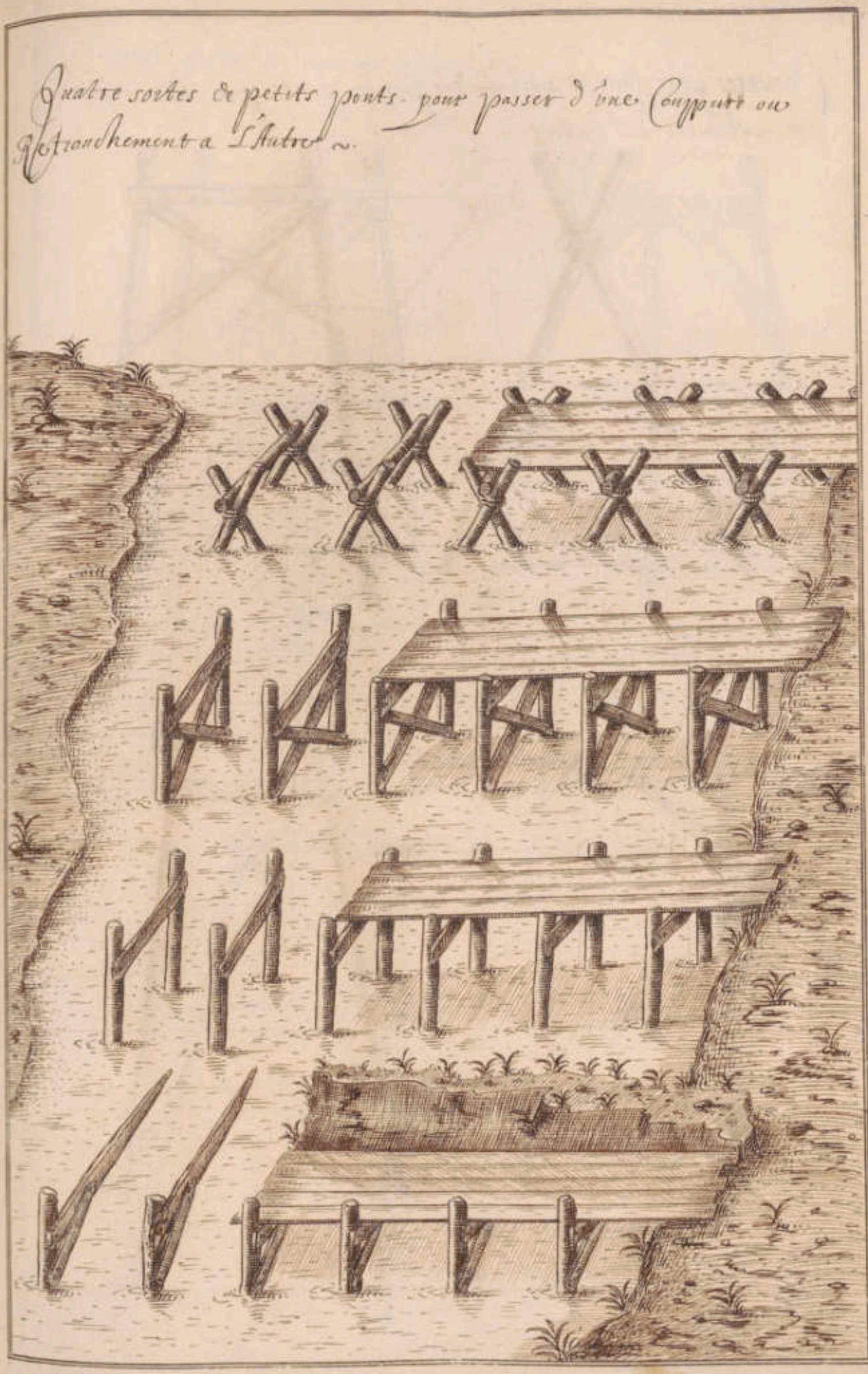




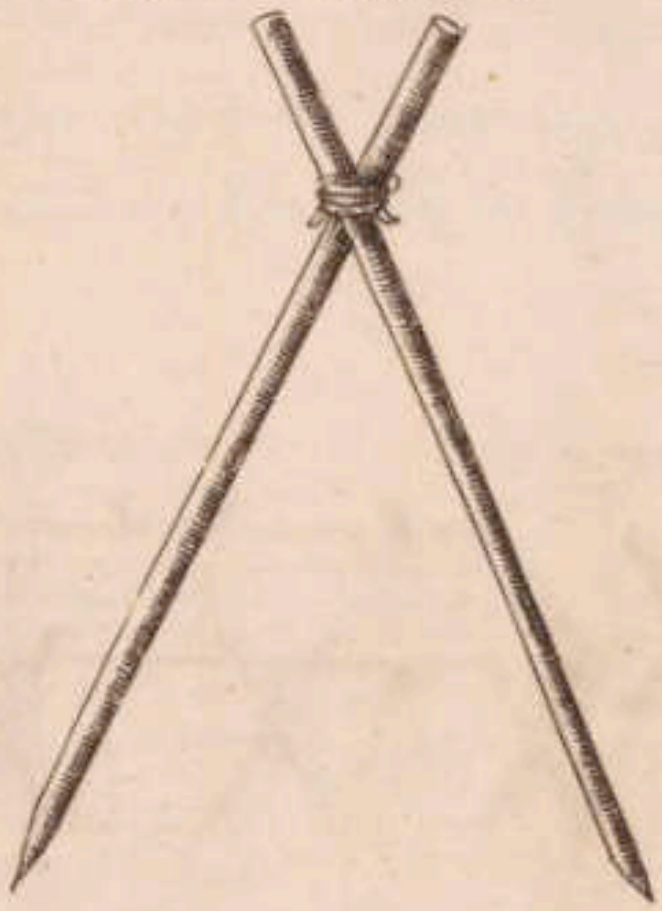


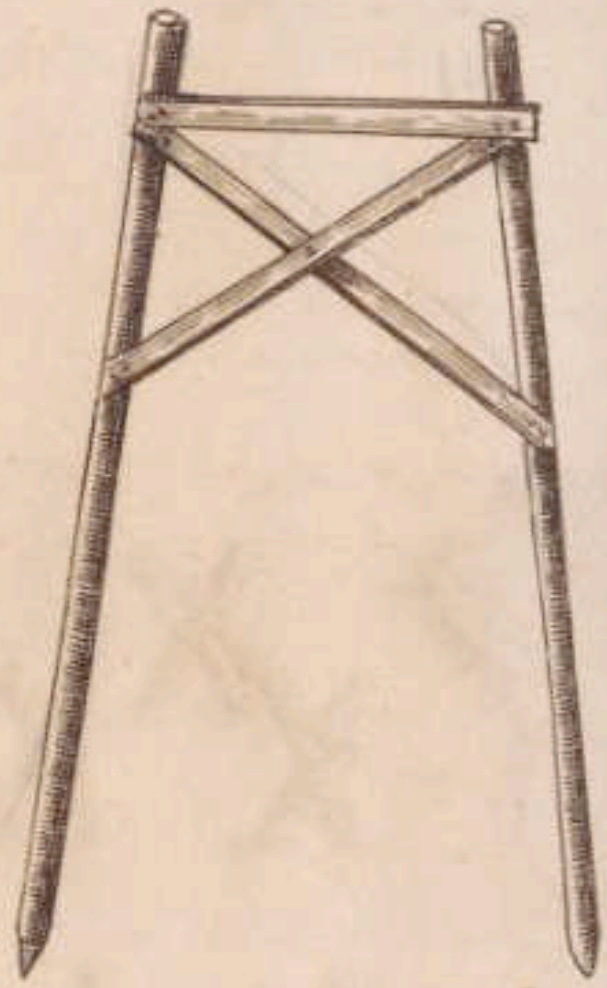


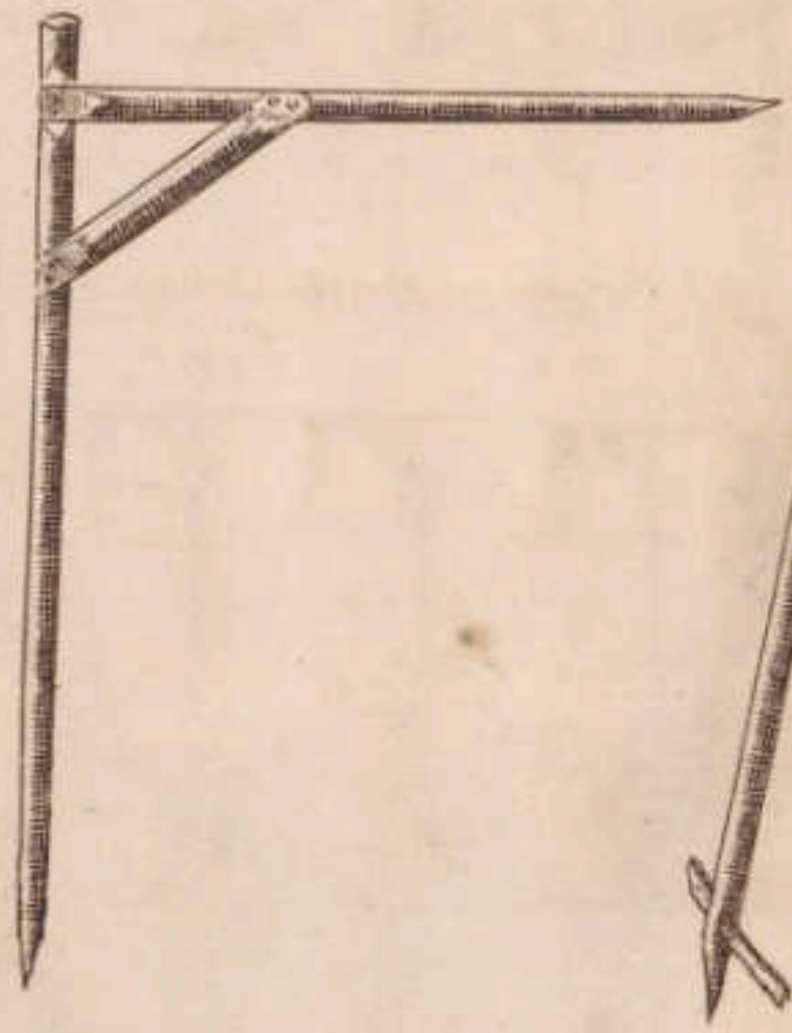
Quatre sortes de petits ponts pour passer d'une Coupure ou Retranchement a l'Autre.

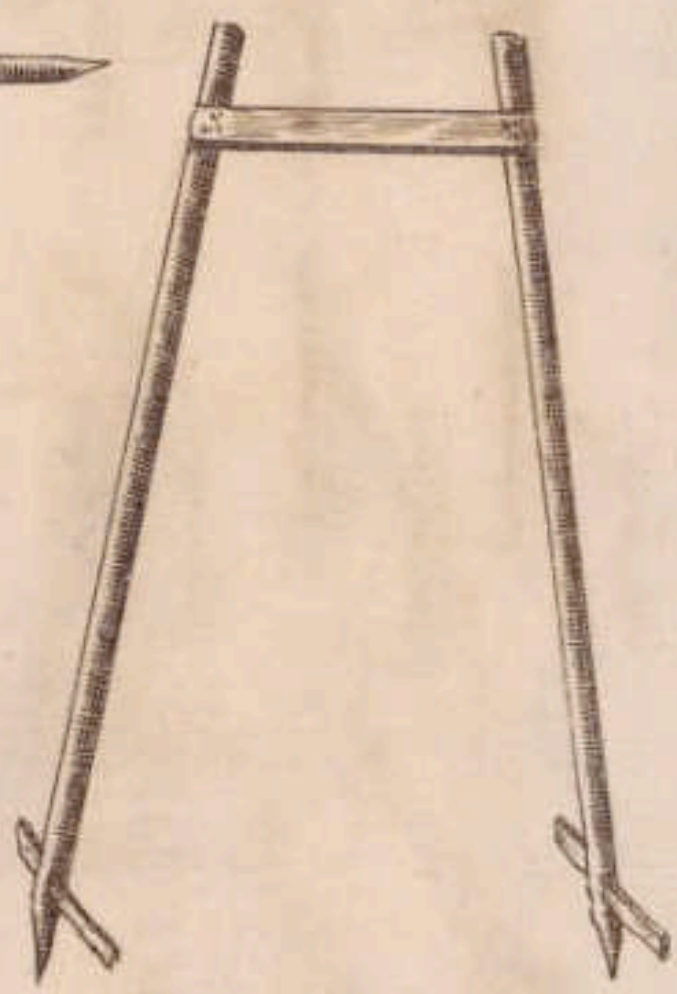


Coussures pour faire et soustenir des petits ponts pour aller d'un retranchement a l'autre.

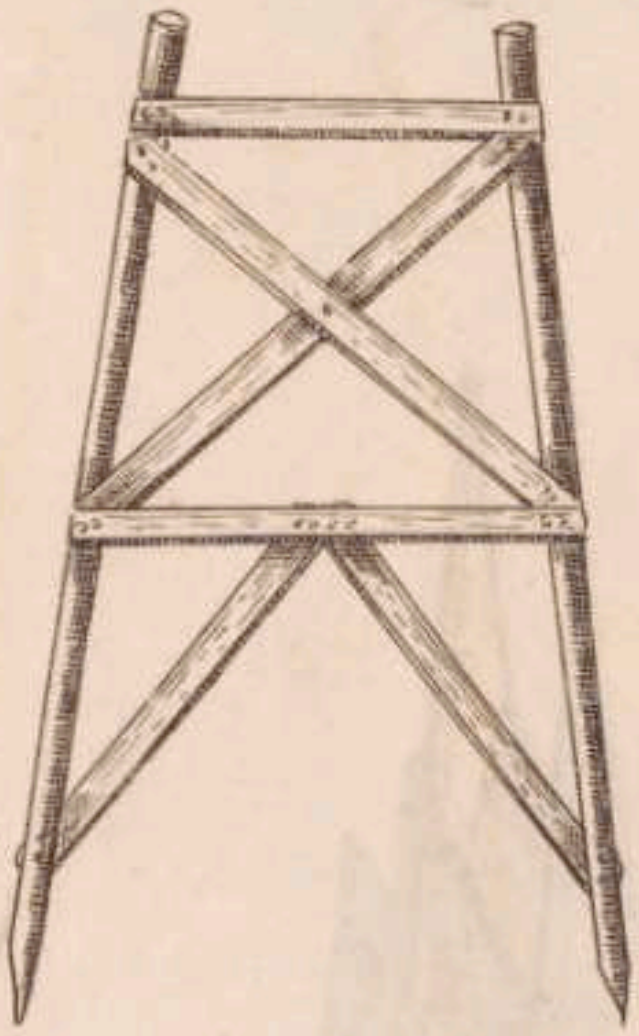


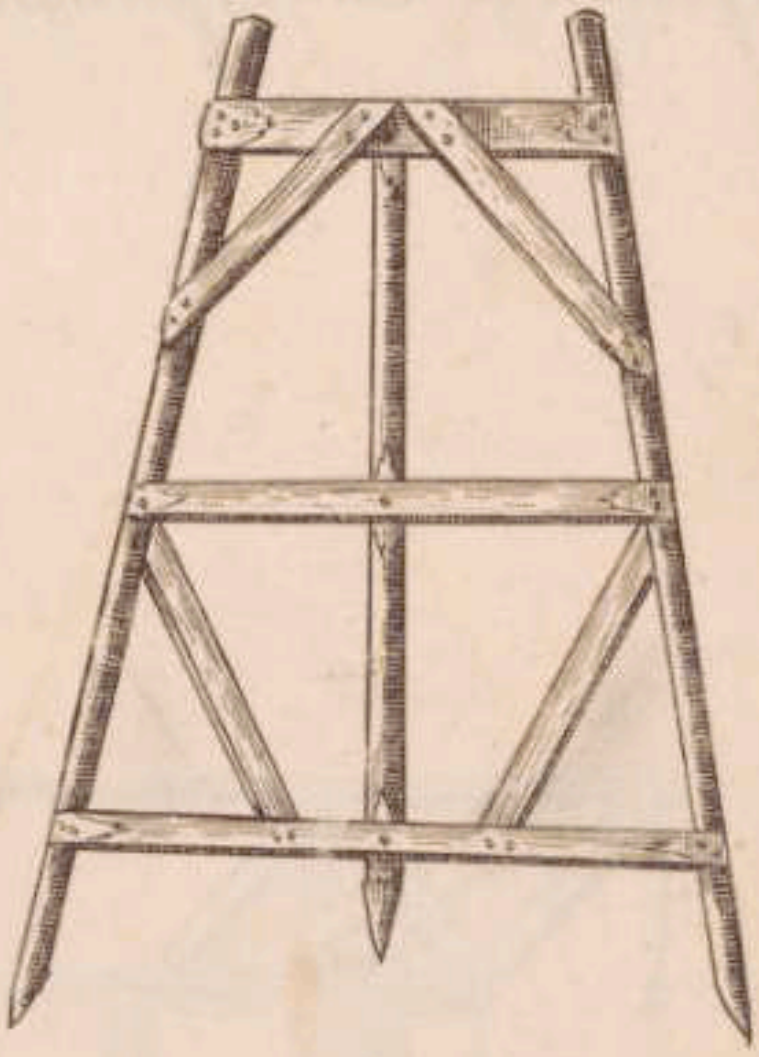




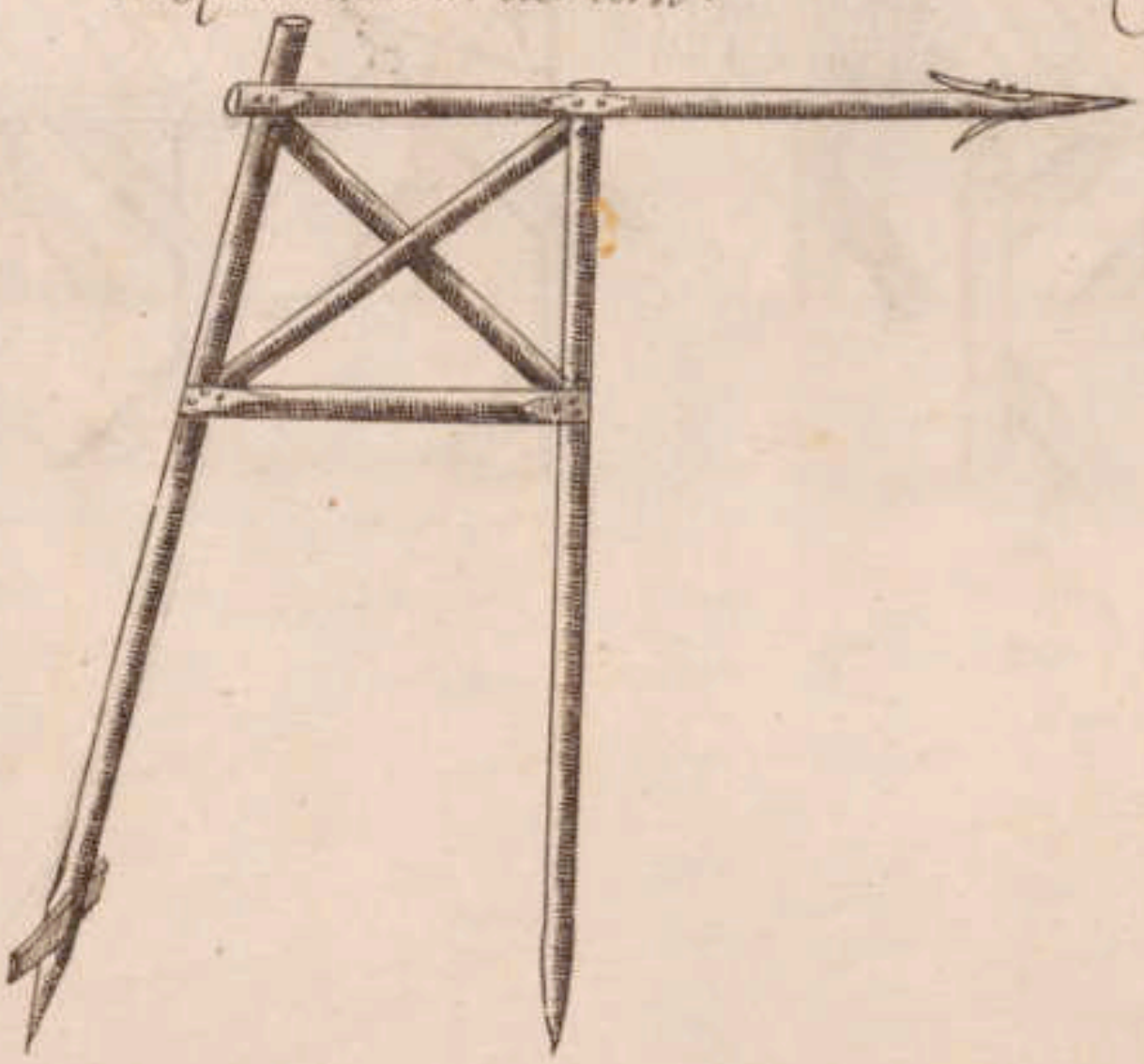


Croisures pour le mesme effet.

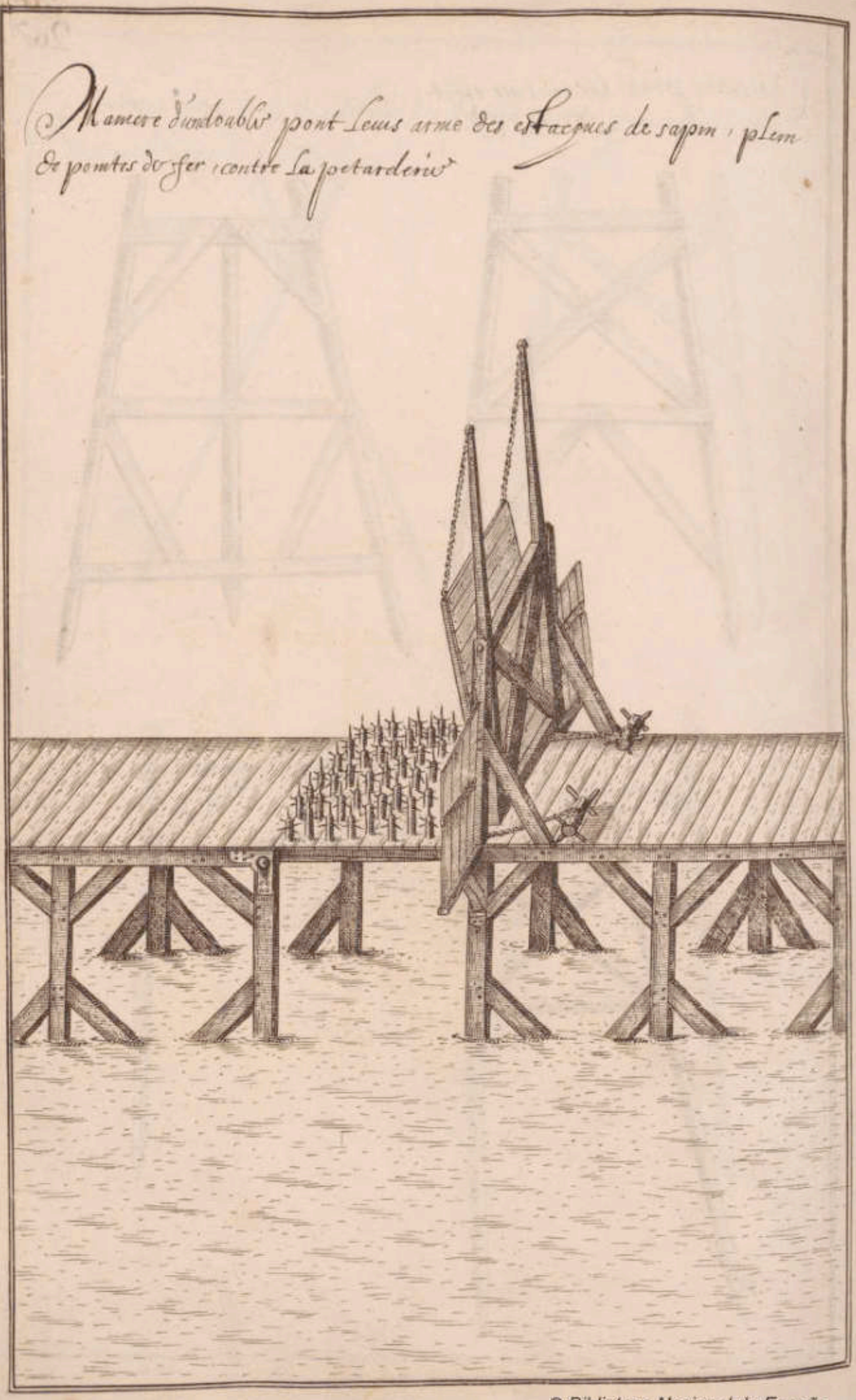




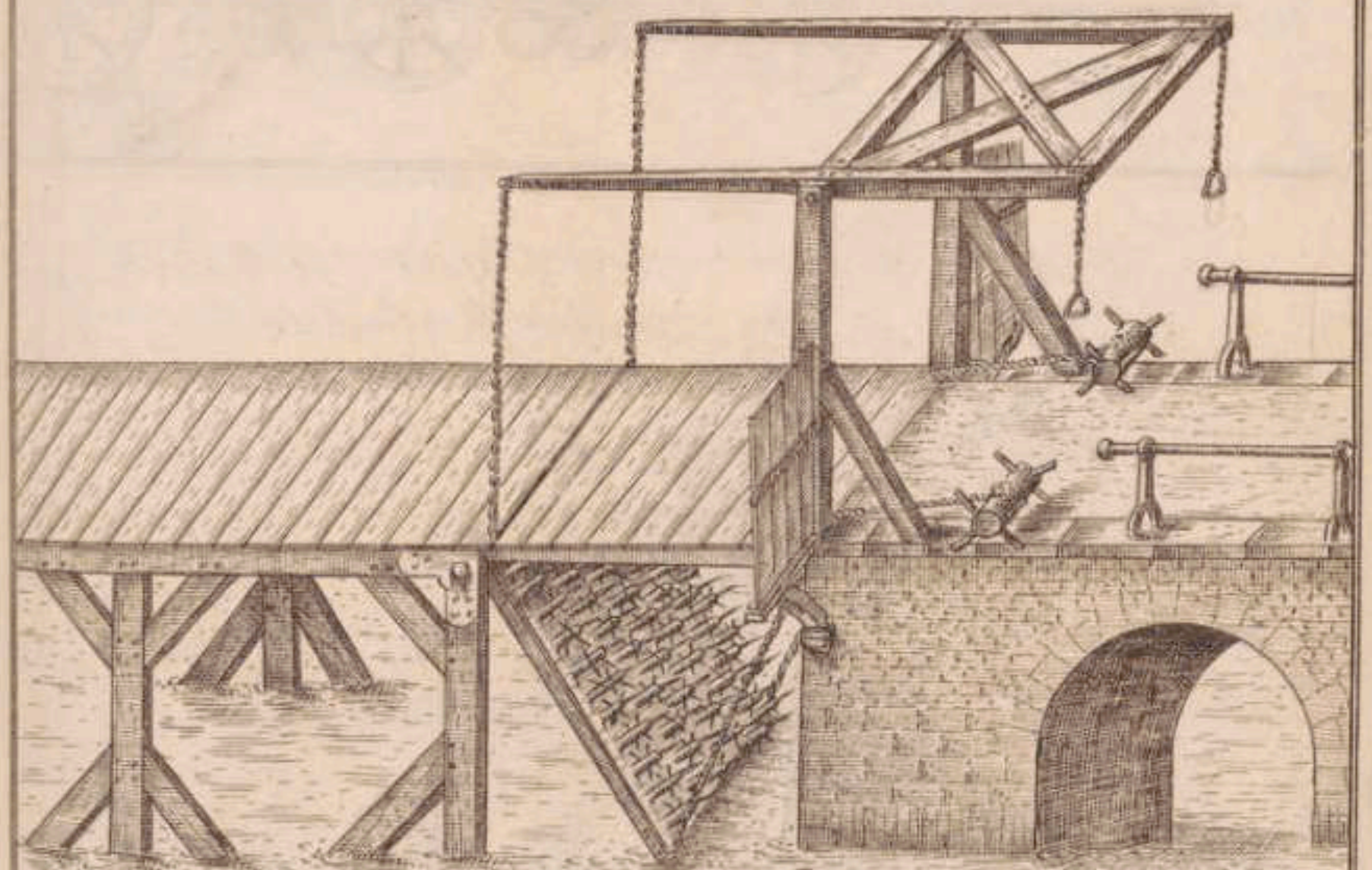
Croisure pour faire un coste dans un Rempart ou Retranchement de terre.



Manere d'un doublo pont leuis arme des estacques de sapin, plein de pointes de fer contre la petardeiro



Le mesme pont de la facon qu'il doibt estre estant abaissé.

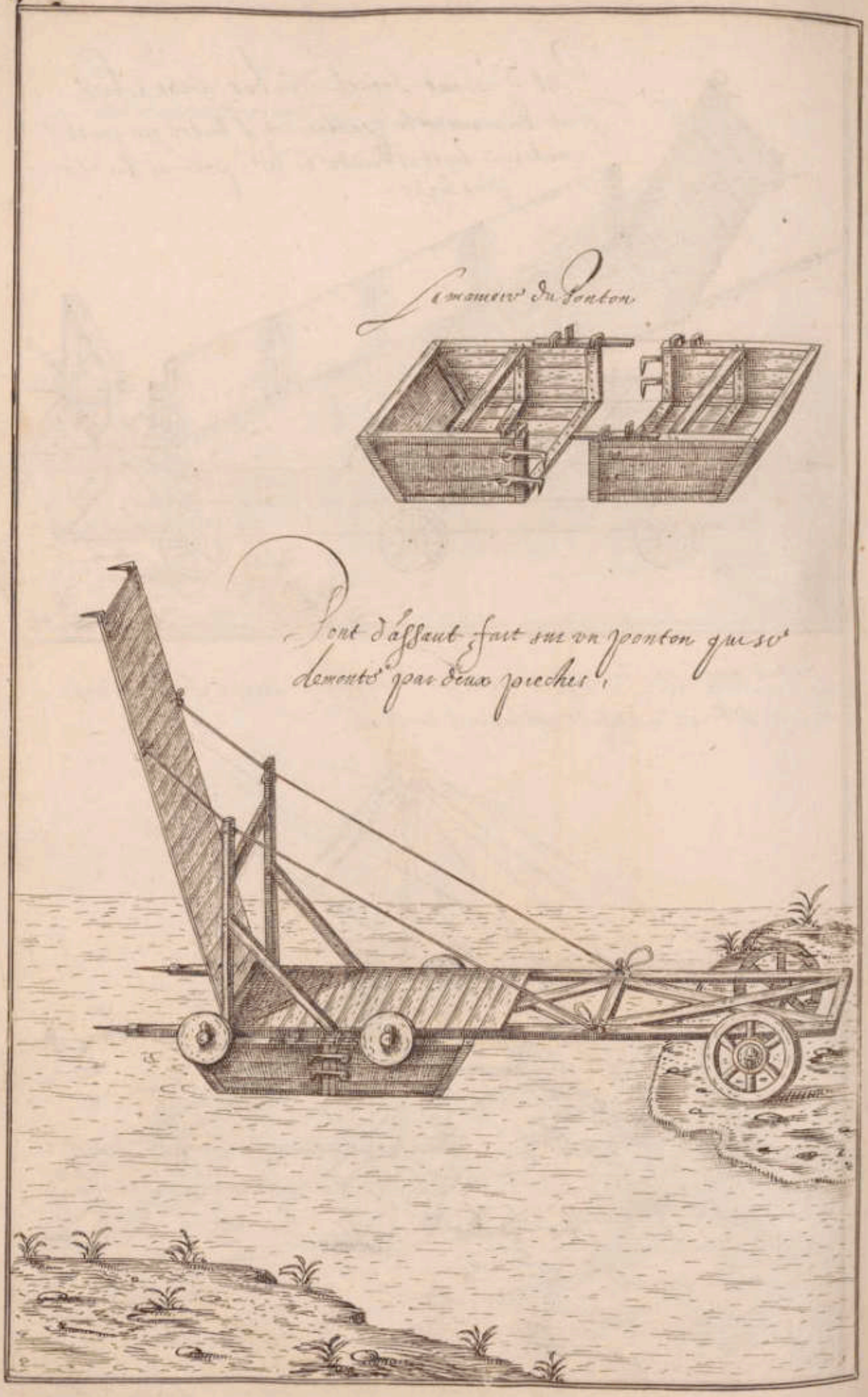


Pont d'assaut monté sur des tonneaux

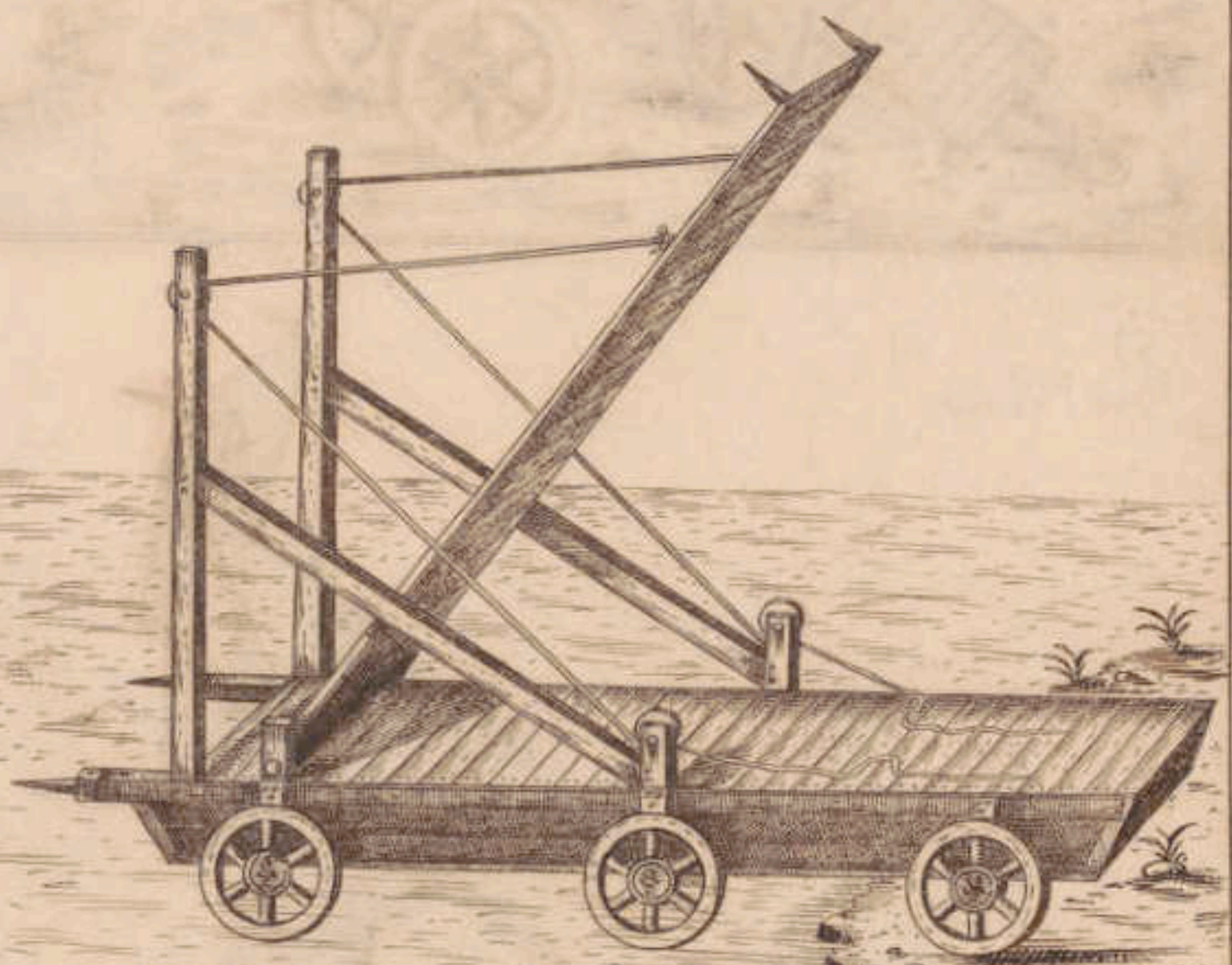
Pont d'assaut fait de mas & sapin
et Cordage et Conebas.

Pont d'assaut Legnet d'enbas doibt estre
fait en maniere de ponton. et l'autre qui passe
pardessus doibt estre de toile, pour estre tant-
plus leger.

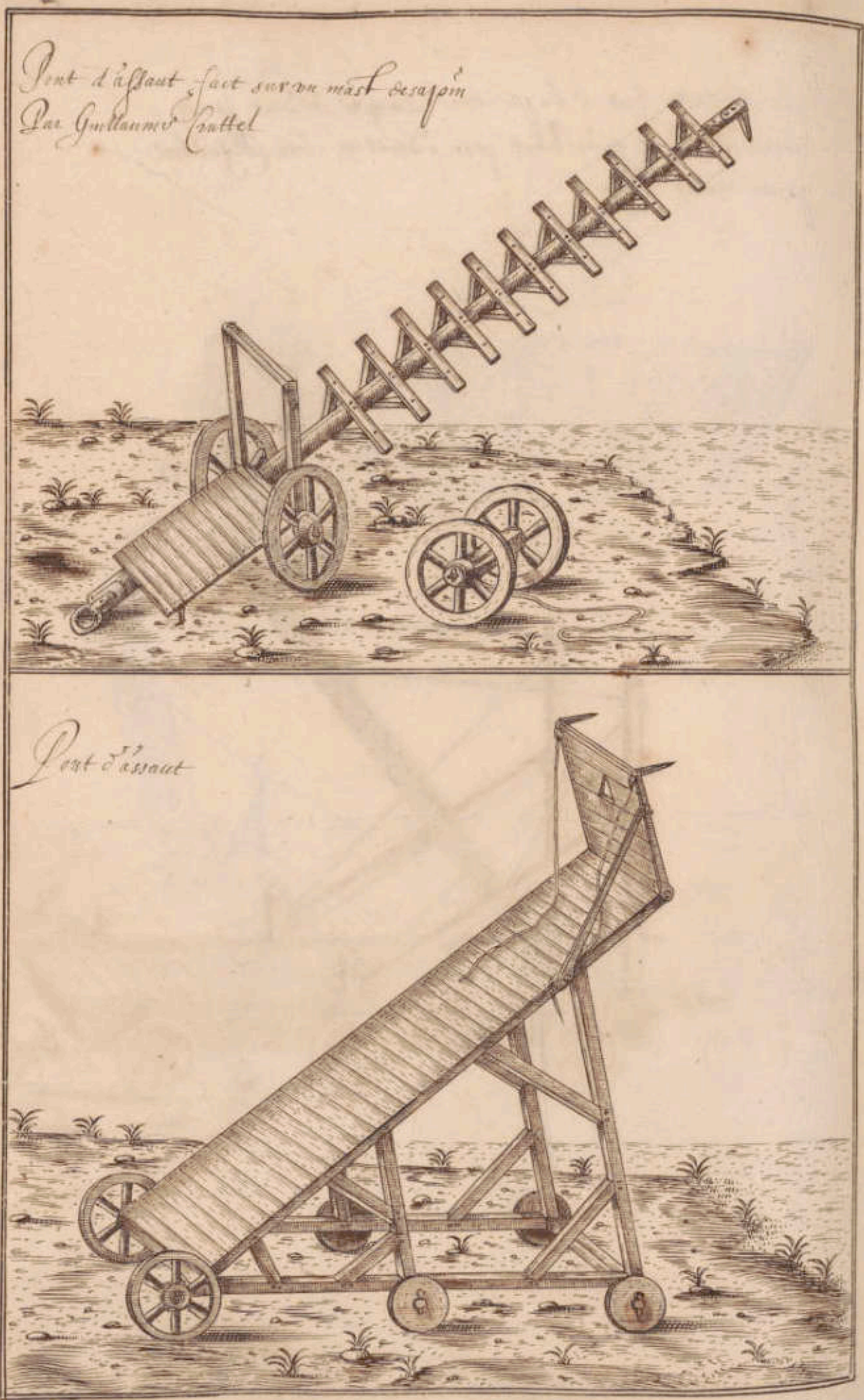
Chariot ou pont d'assaut de pompeo farragona, legnet fust fait
denant ostende. mais Je ne se sermet de Rien.



Pont d'assaut fait d'un ponton large de 5 mt pieds et longue d'autant qu'on veut par discretion bien calfeutré et poisé contre l'eau



Pont d'assaut fait sur un mast de sapin
Par Guillaume Rattel

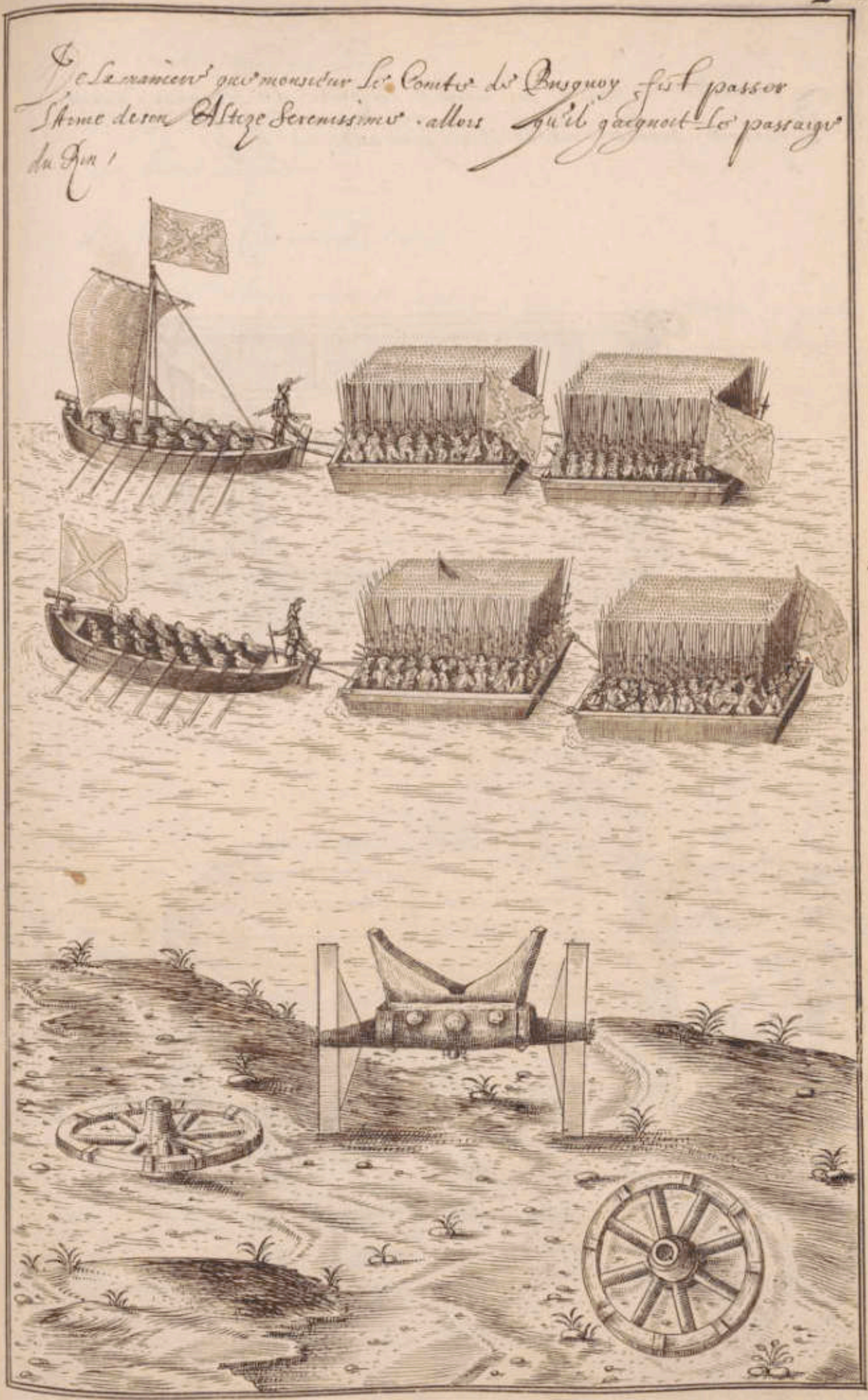


Pont d'assaut

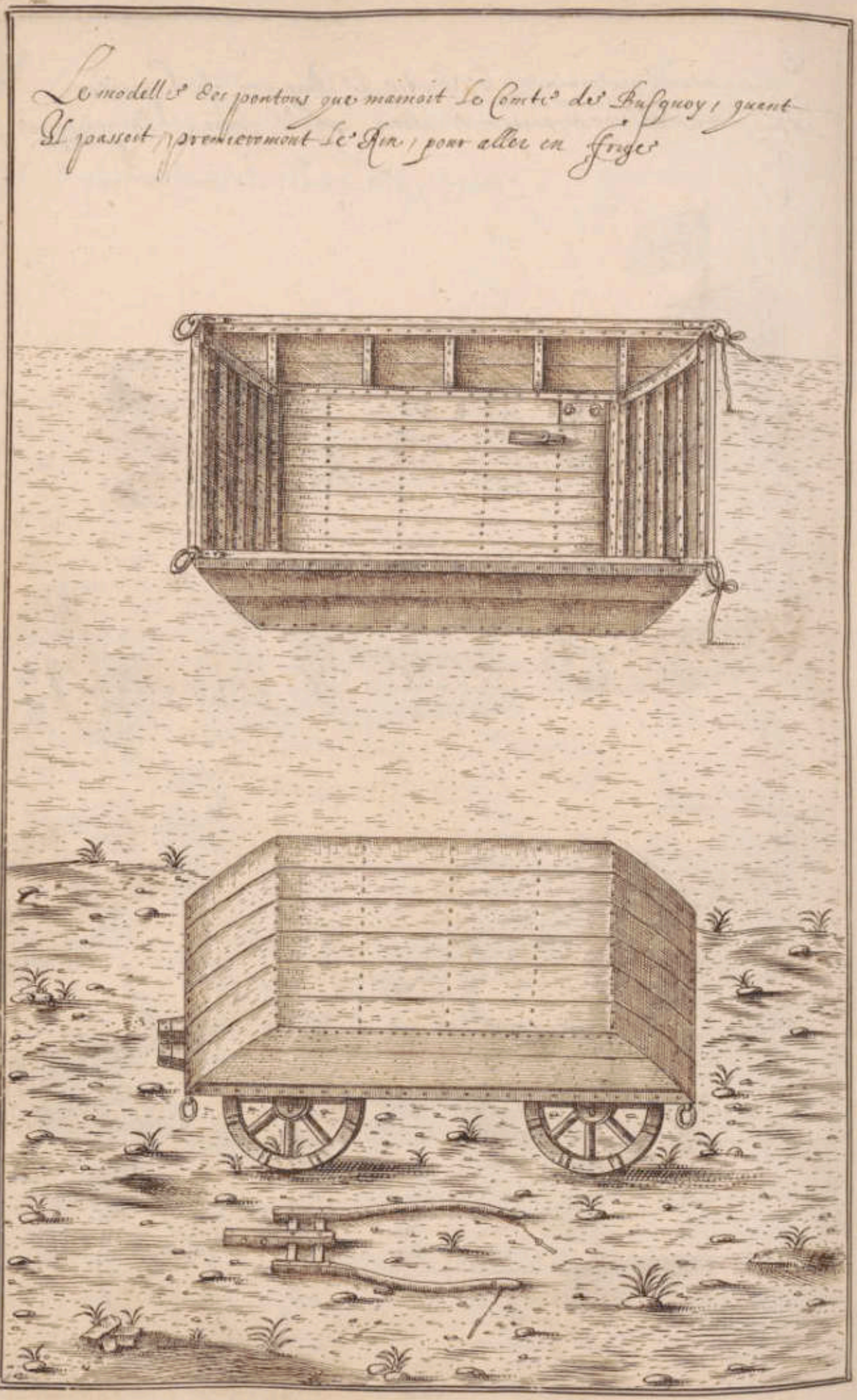
A La facon qu'il debuoit estre monte les fregattes sur le chariot pour les Amener,

B. Le front du derrier de chariot de la fregatte

Le ranceur que monsieur le Comte de Busquoy fist passer
Iteme de son Altezze Serenissime . allors qu'il gagnoit le passage
du Rin ,



Le modell de des pontons que mainoit le Comte des Busquoy, quant Il passeit premierement le Rin, pour aller en Frise



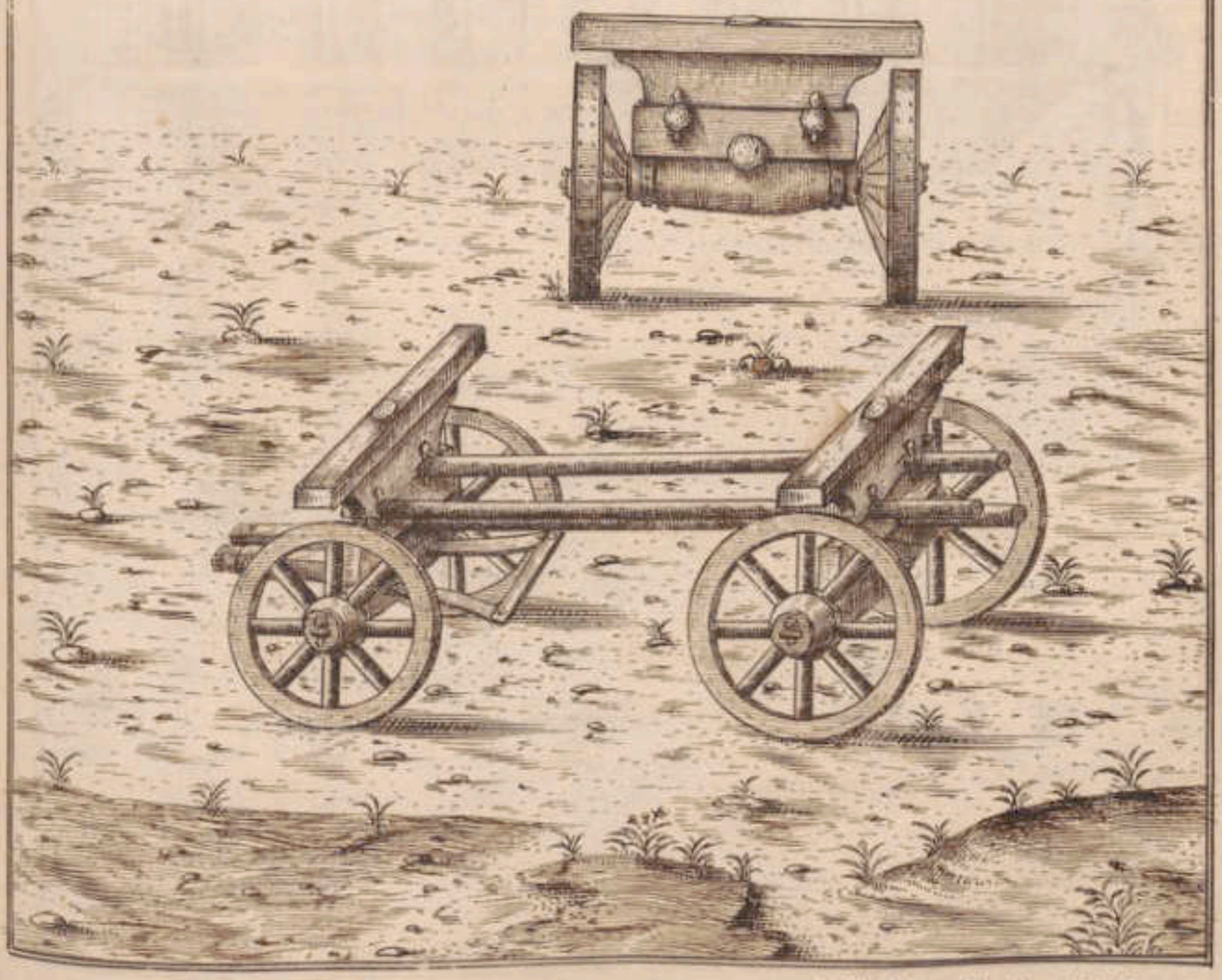
A. le ponton mis dans l'eau.

B. le ponton monté sur le Chariot

C le chariot du ponton

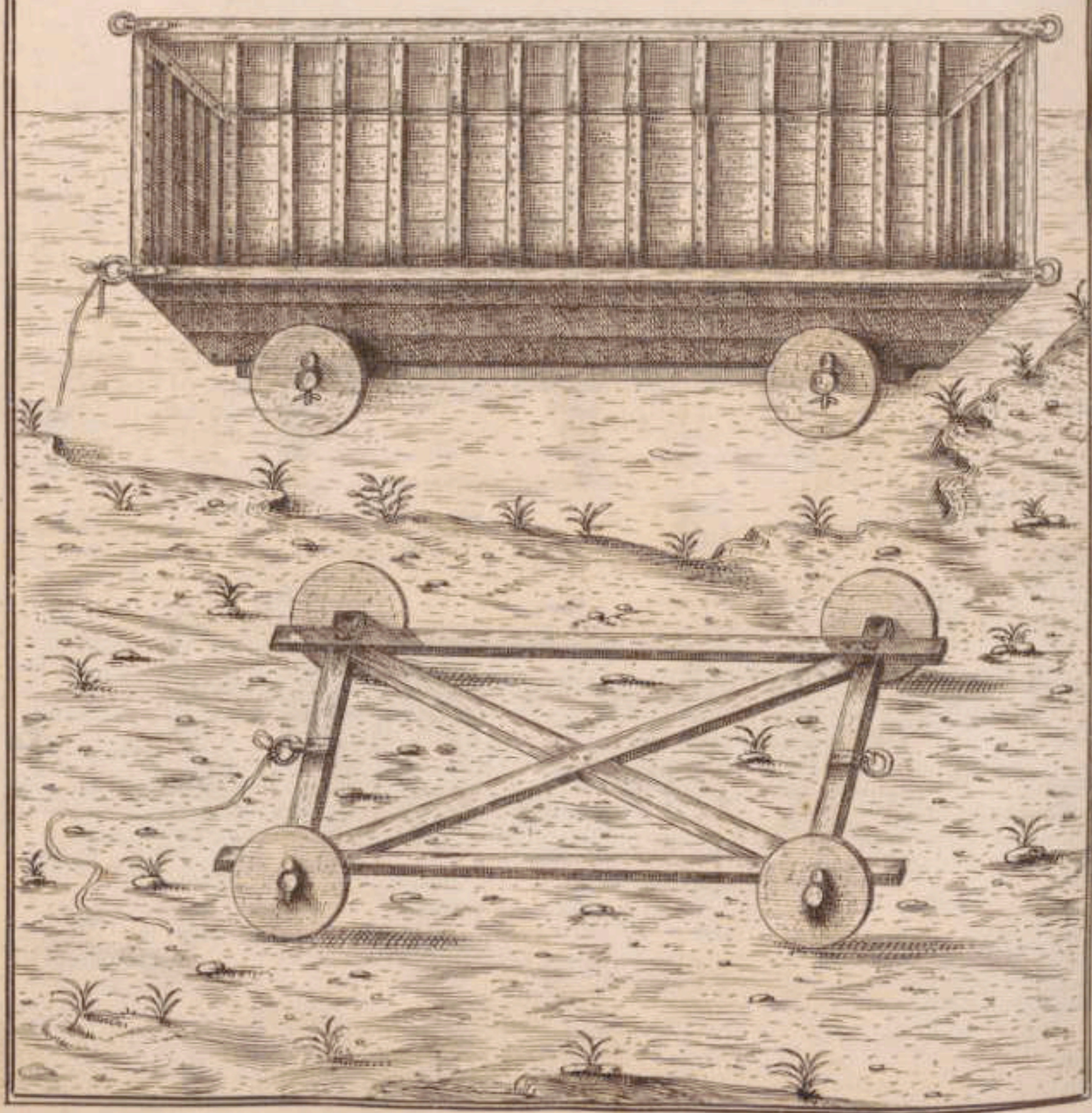
D. les front du Chariot du dernier

les pontons doibvent tenir en largeur 10 piedz et de longeur 30 piedz et de profondeur 3 piedz.

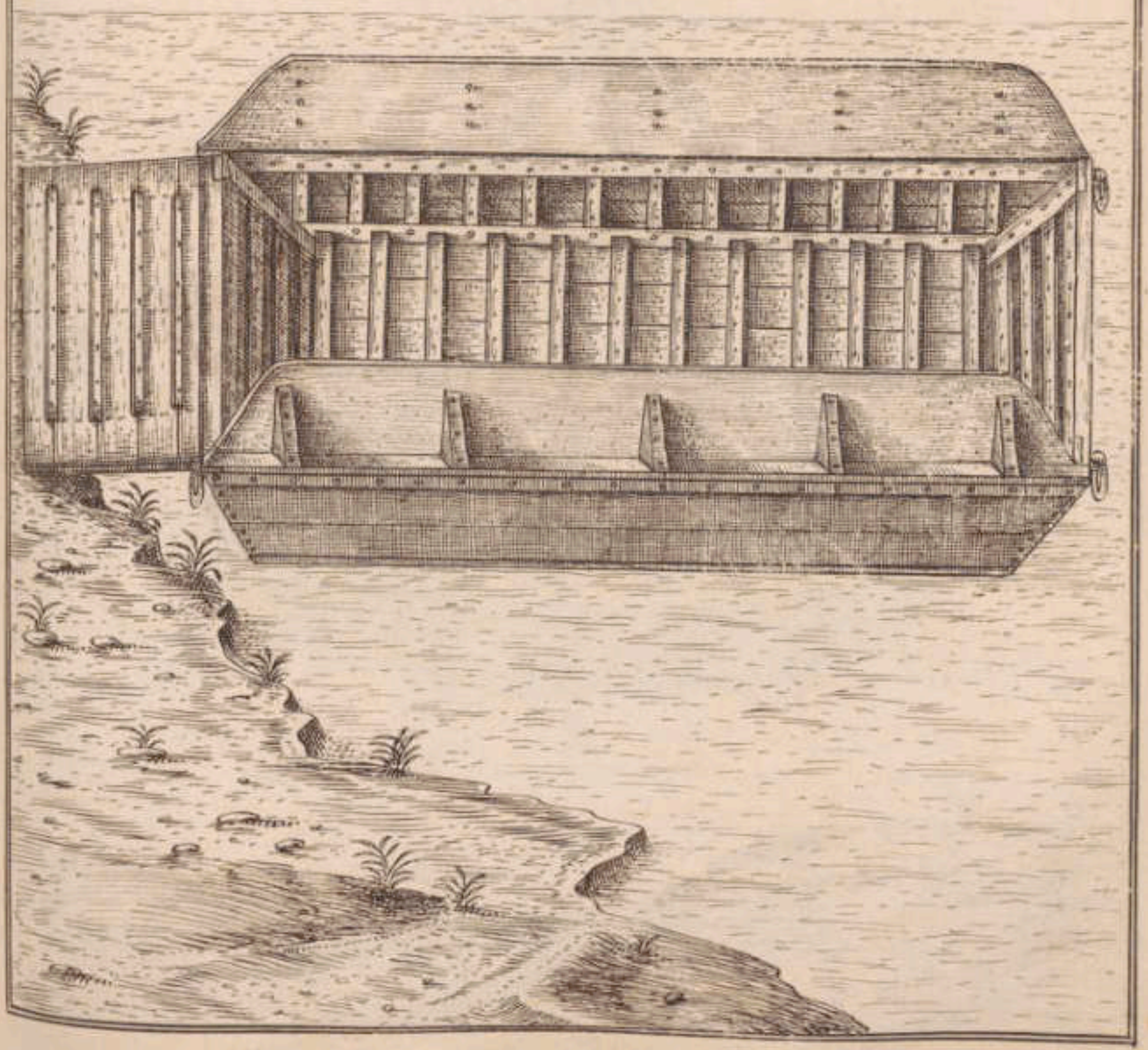


Autre sorte de ponton de guey les Hollandois avoit fait vng Pont sur le quel tout attaché les vns aux Autres sans aulle autre chose.

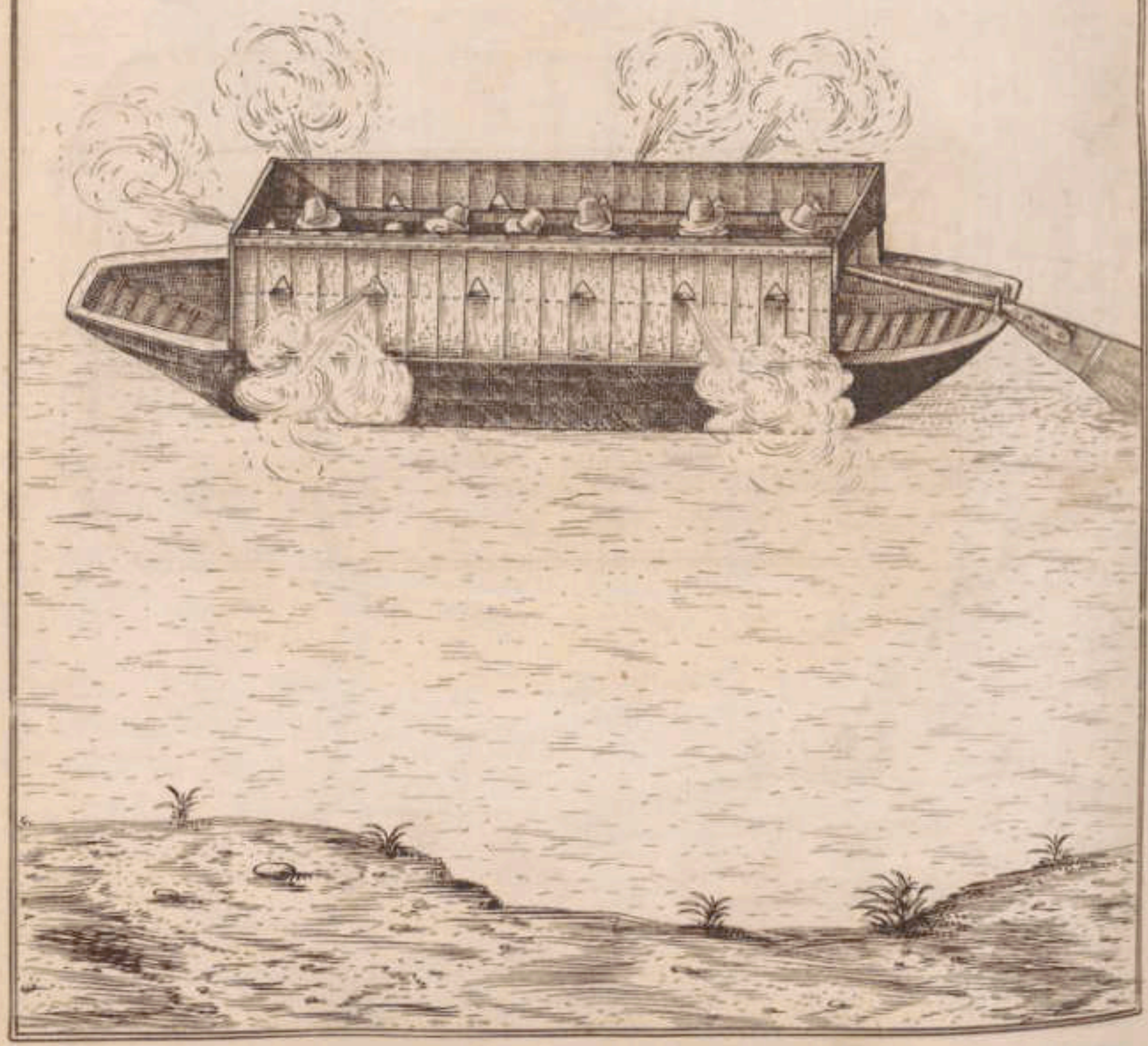
Aussy qu'ant lez le veullent mettre dans l'eau. Il le mettent avecq se presente Instrument a quatre Roues et apres l'ancre mis dans l'eau retirent ledict Instrument.



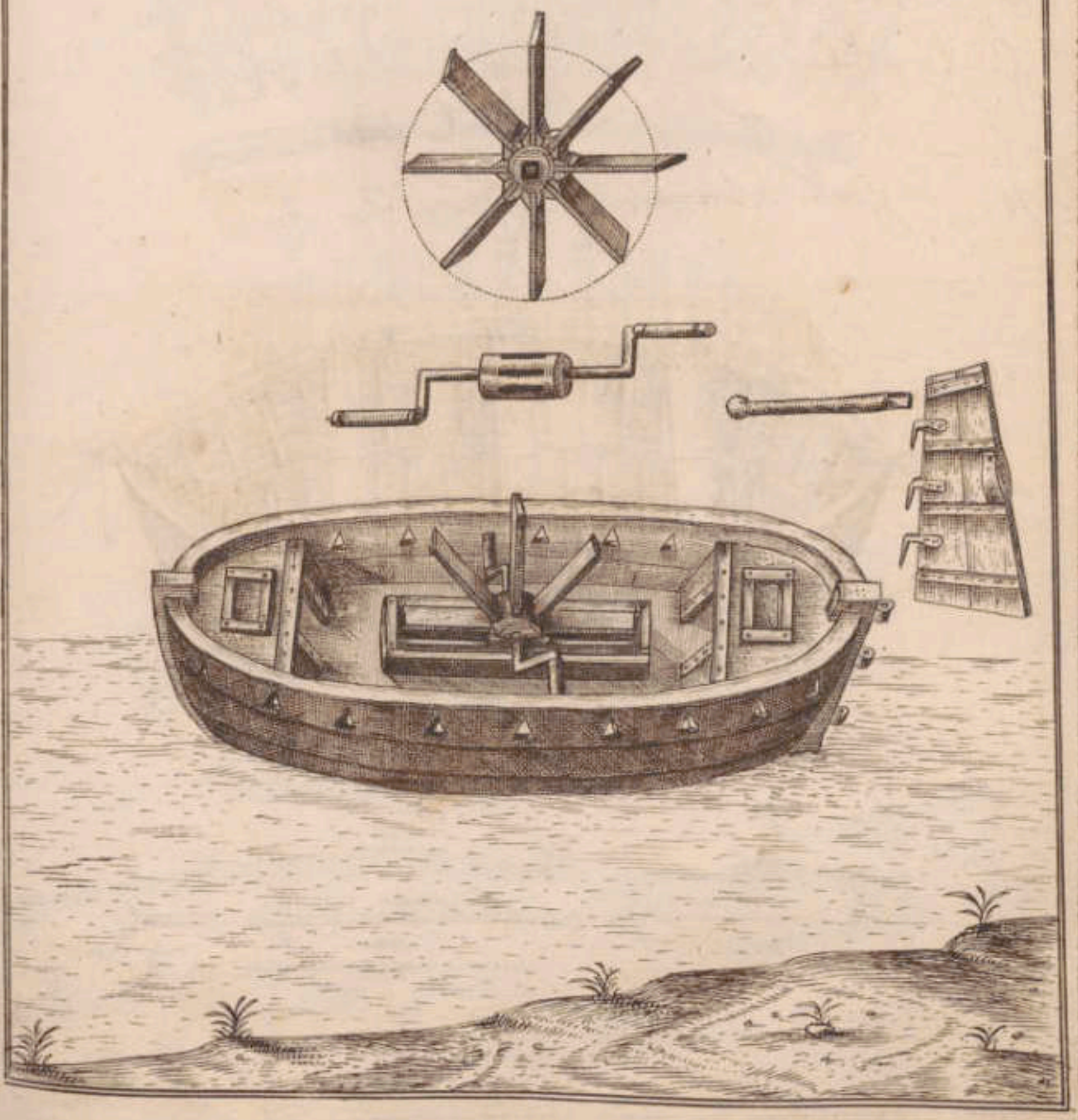
Ponton fort grand dont quoy les Hollandois s'en ont seruy sur les Fin pour amener leur Cauallerie



Vne Barque armé de tablons a la proeme plein de mousquettures pour aualler vne Riuiere en temps de necessité ou d'Anger



Une maniere de faire un Barque d'entreprise, laquelle l'on fait Remuer par le dedans et on y peult mettre selon la grandeur qu'on veult Cent ou deux Cens Hommes. et couurir par dessus de paille, fom ou fagots, ou Autre matiere qu'on veult.



Bargues de cuyre Boilly propre pour entreprises par ~~mer~~ on & peult demonter et ouurir dans un sacq, pour pouoir estre decouuert

A. Le bois d'en Sault ~~demonte~~ demonté en trois pieches.

B. Le Coste d'un bout a l'autre de petites pieches de bois carrees, et attache sur des sengles de Beual.

C. Le bois d'en bas demonté par trois pieches

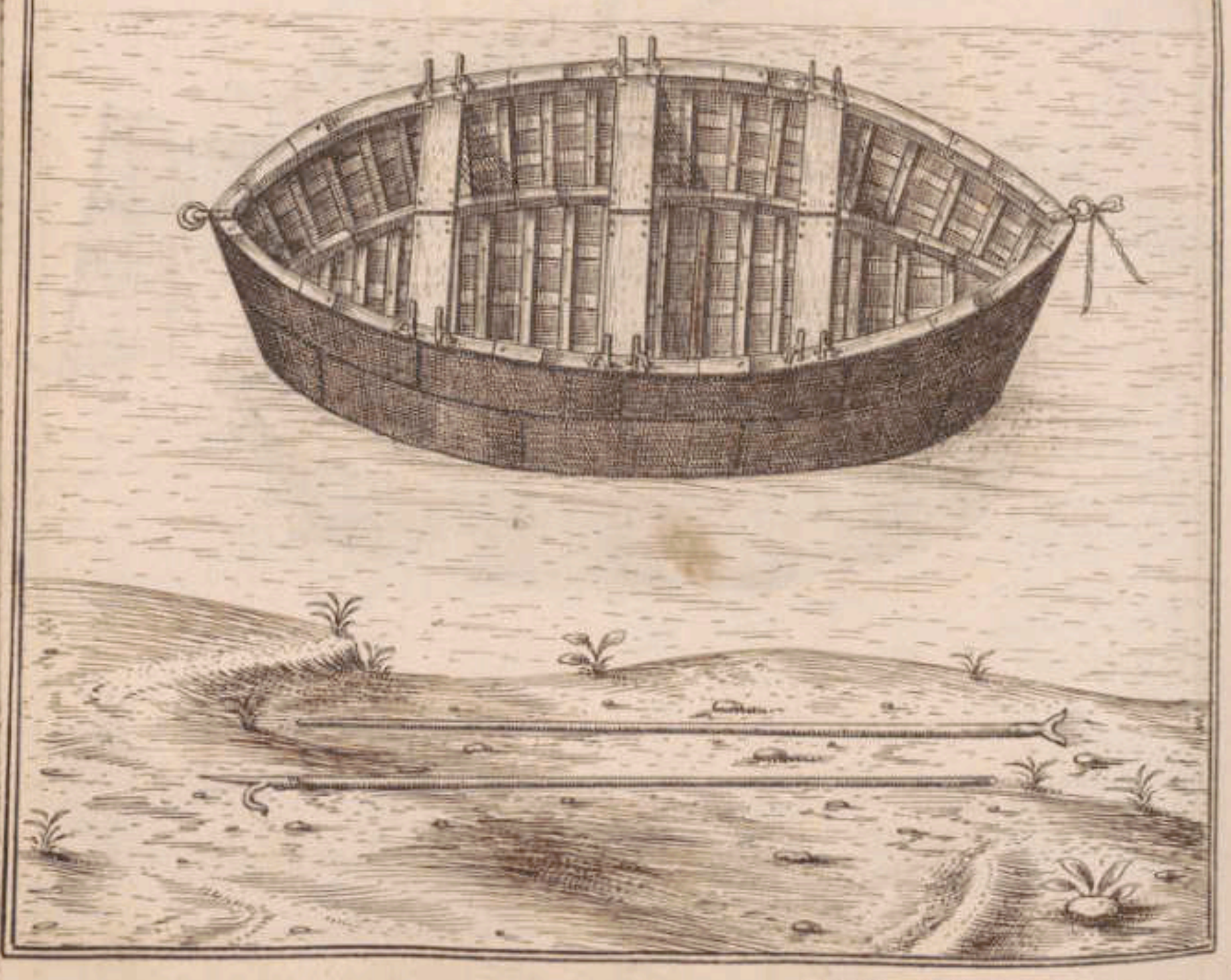
D. Le banc pour tenir la barcque tendue et pour s'asseoir dessus pour Remer

E. Le dessoubz en plis du banc

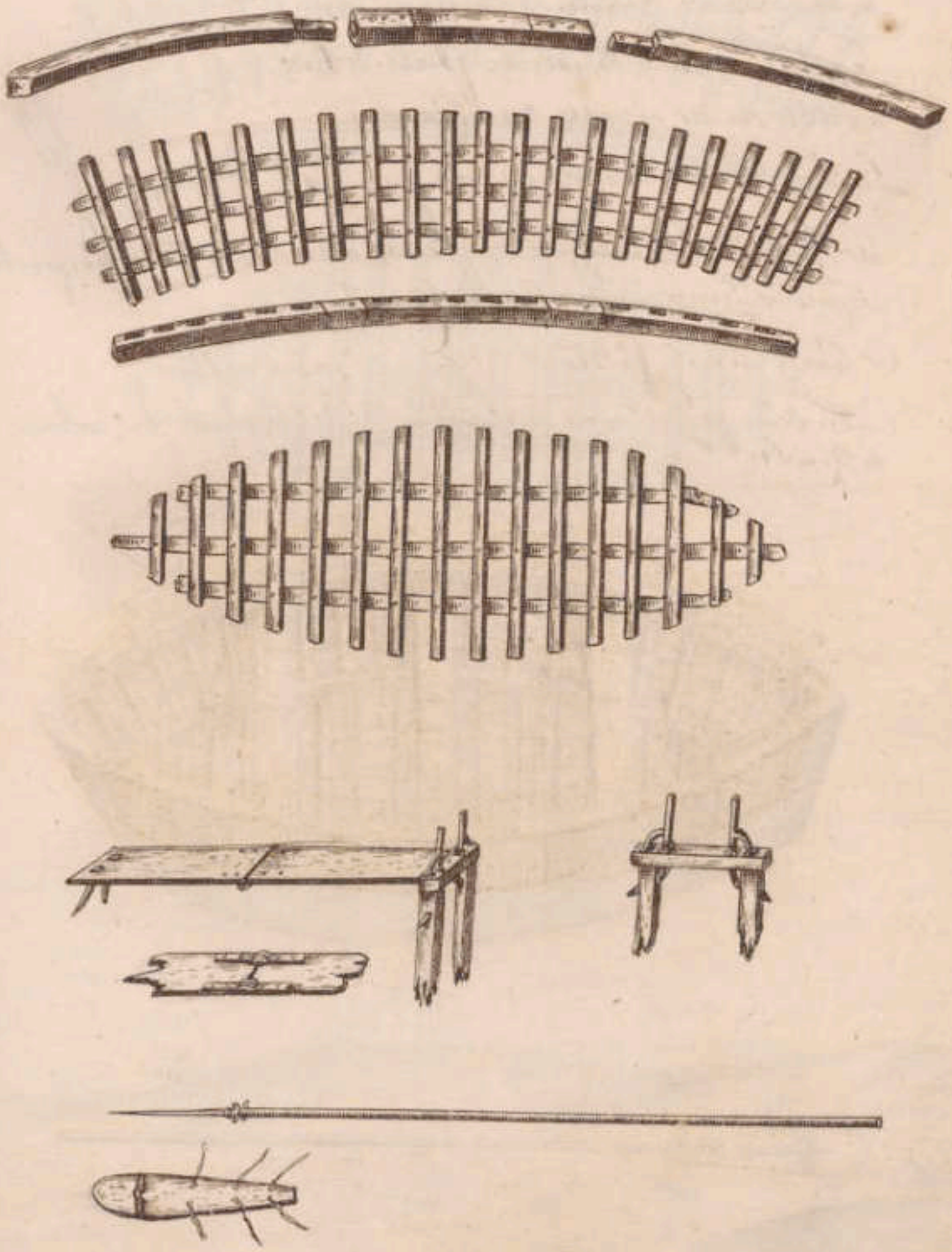
F. Le soustien du banc et sien pour loger la Remes

G. La demy pieque,

H. La feuille de bois pour lyer a la pieque pour Remer

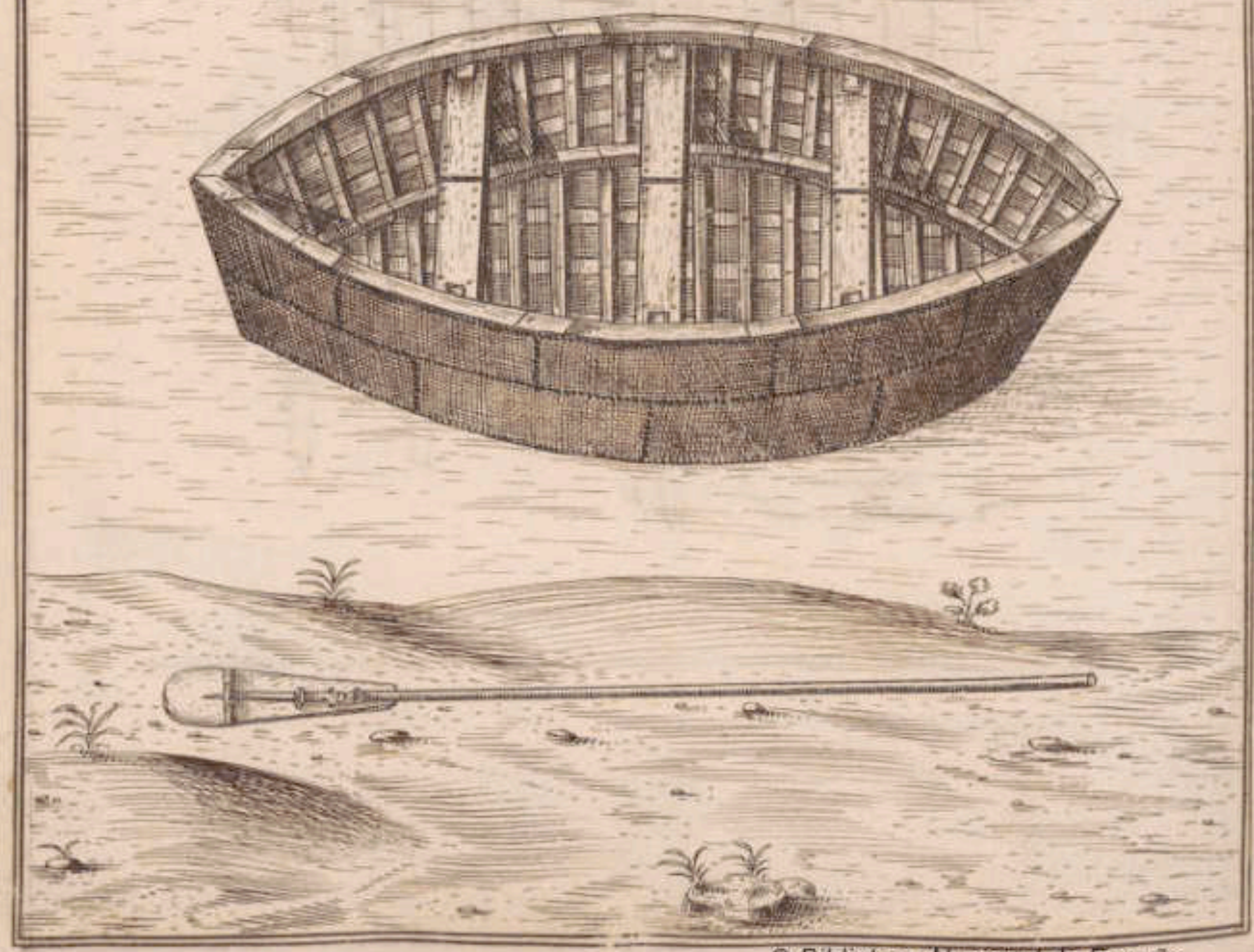


Allors qu'on veut aller a quelques entreprises il faut
Commettre quatre maconniers pour monter l'estement chasques
Barques.

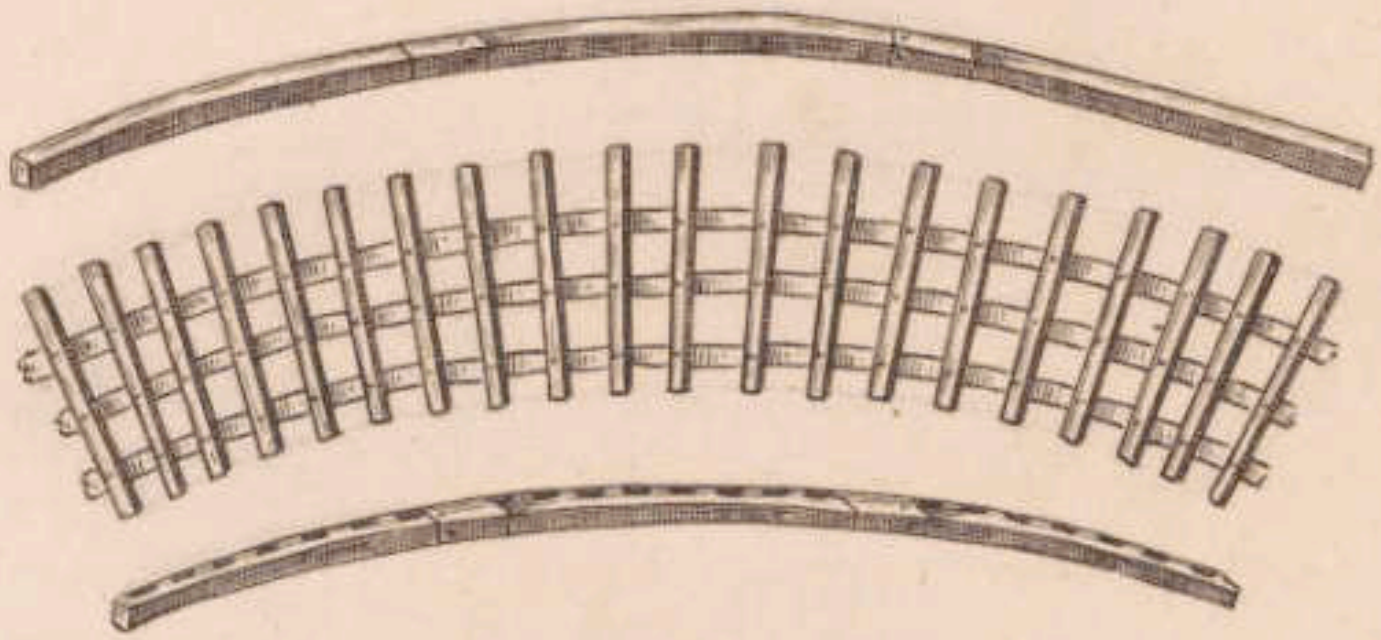


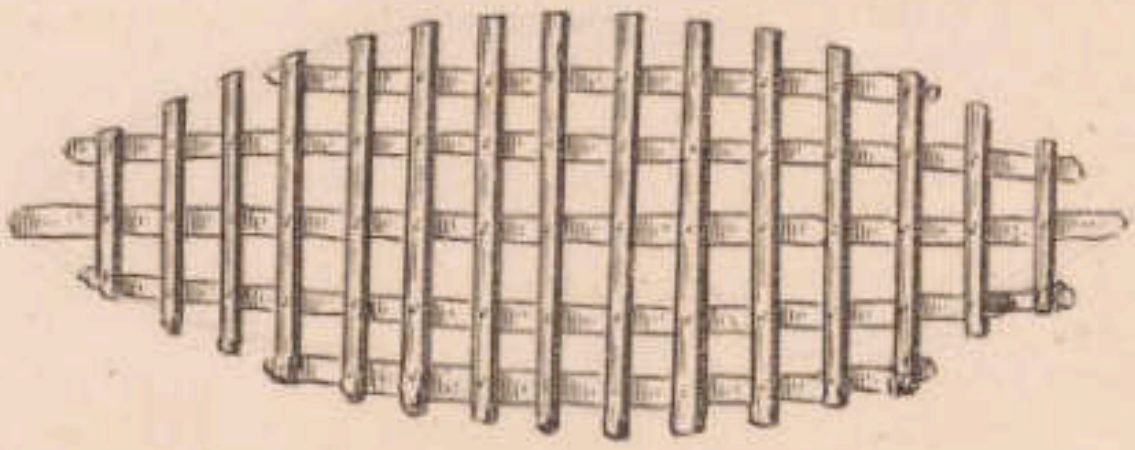
Bargne de cuyre Bouilly bon et propre pour mettre dans un Sacq, apres estre demonte

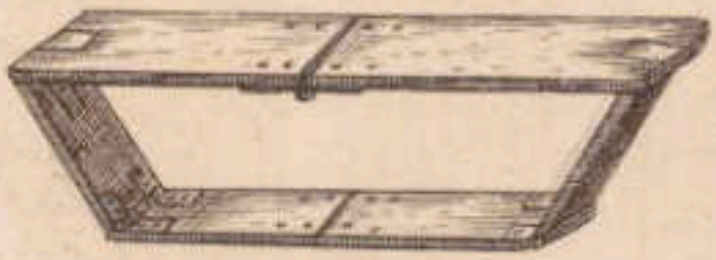
1. Le bois dendault demonte en trois pieces
2. Le costé en soustien de petite piece de Bois attache sur des sengles des Cheuaulx.
3. Le Bois den bas demonte en trois pieches
4. Ce sont de Bateau fait de petits battons sur leur proportion et mesure comme sur sengles de Cheual,
5. Ce Bancq Iegnel soustient ce bareque en son entier
6. Une demy pieque auecq une feuille de bois attache en lieu de Rame.

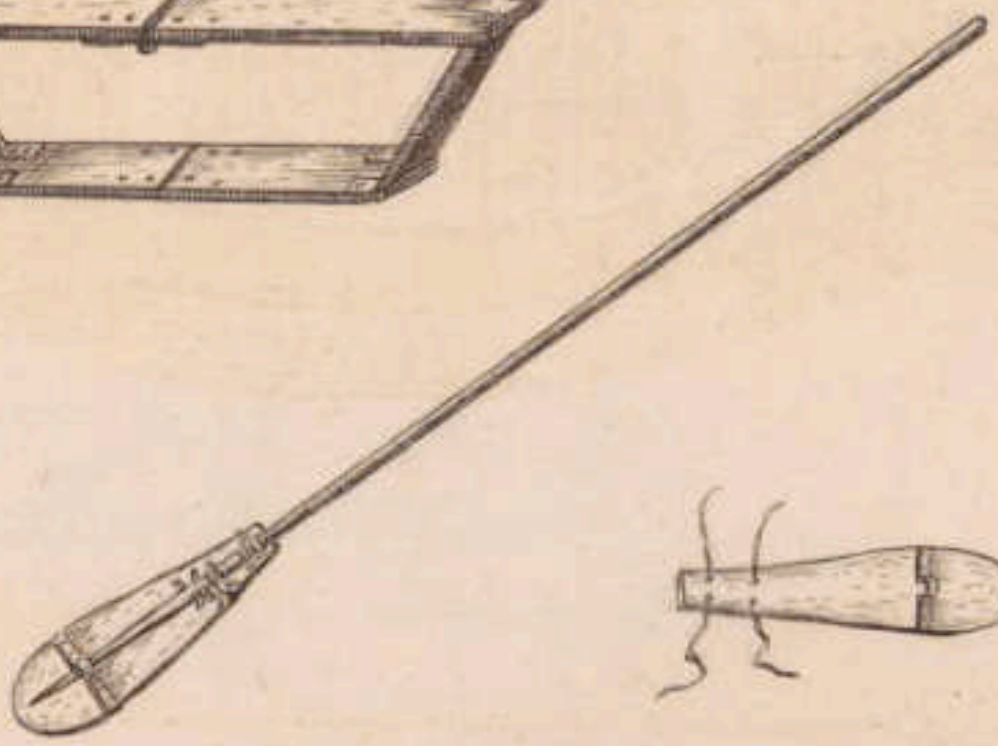


Quant on veult allier a quelque entreposer, il faut ordonner quatre
quattebots entendues pour monter a la Dette chascune Barque



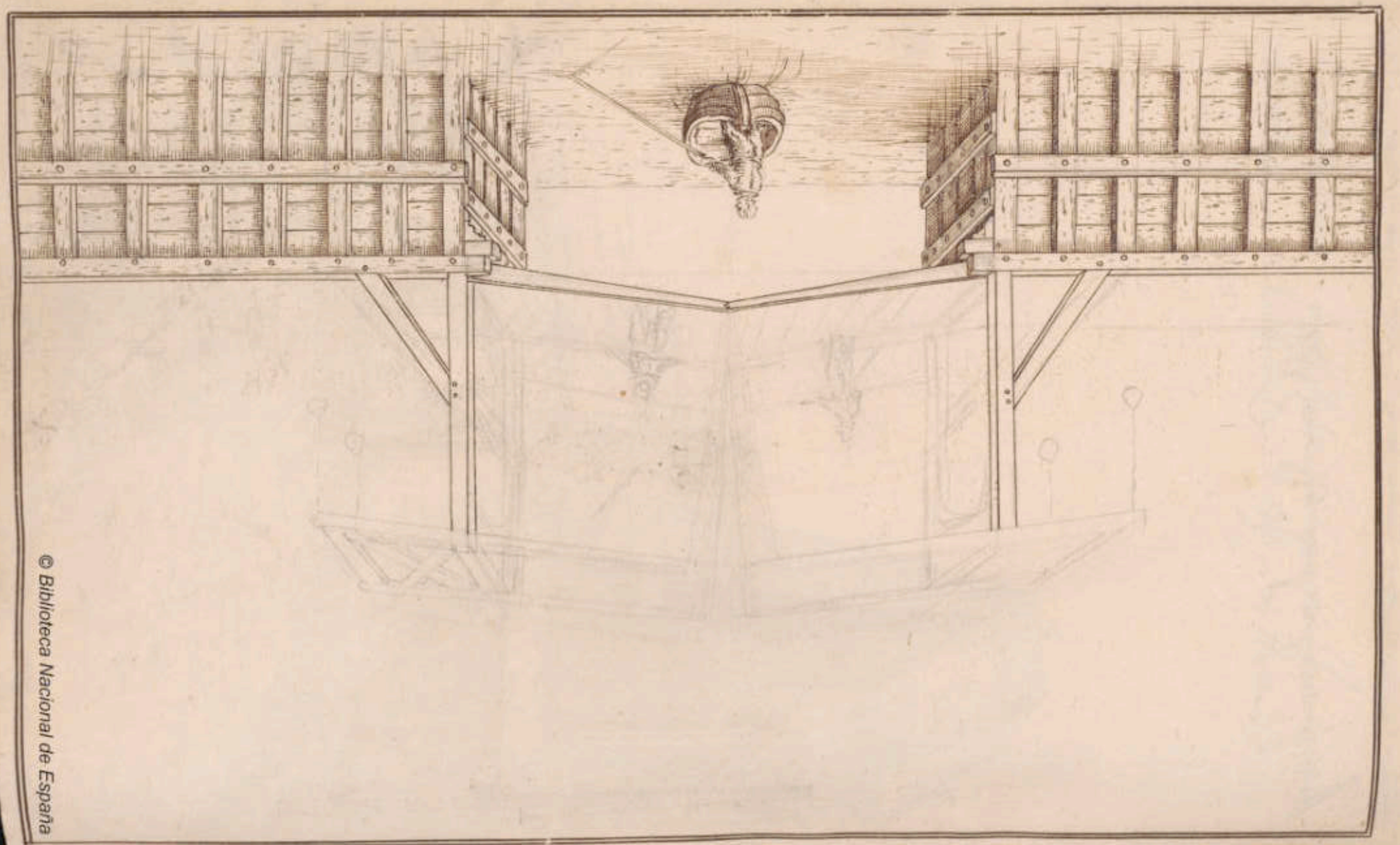


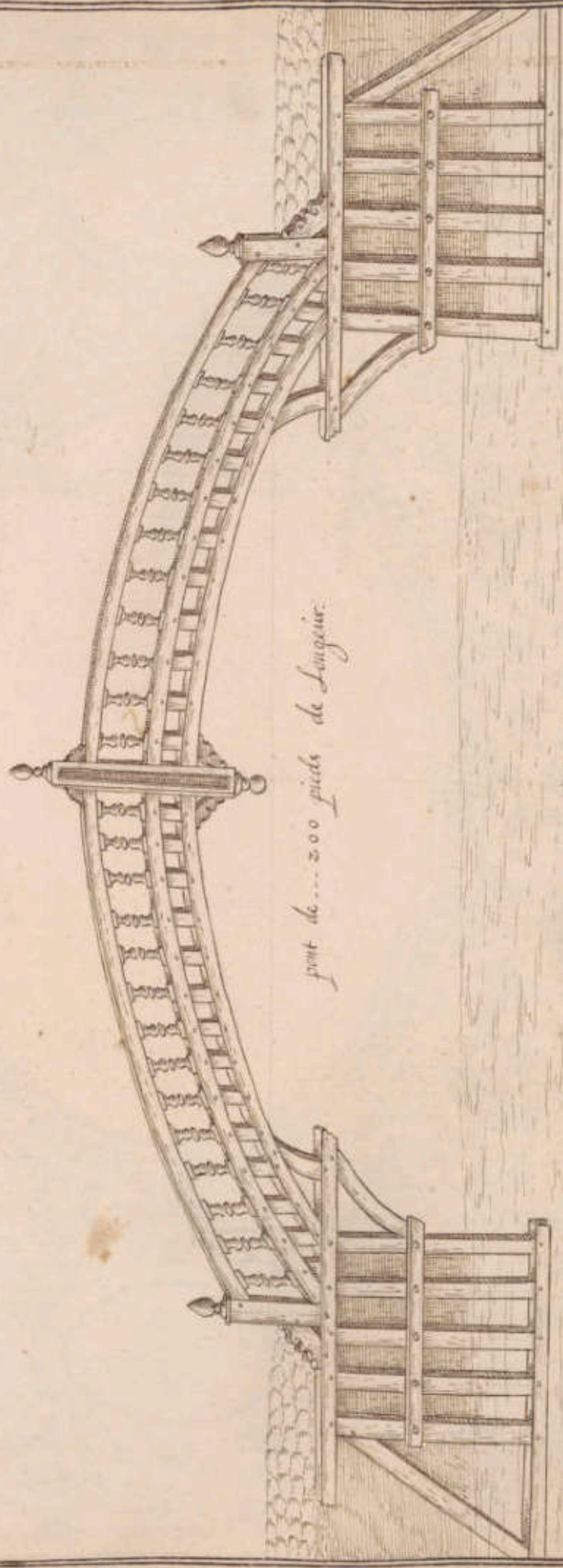


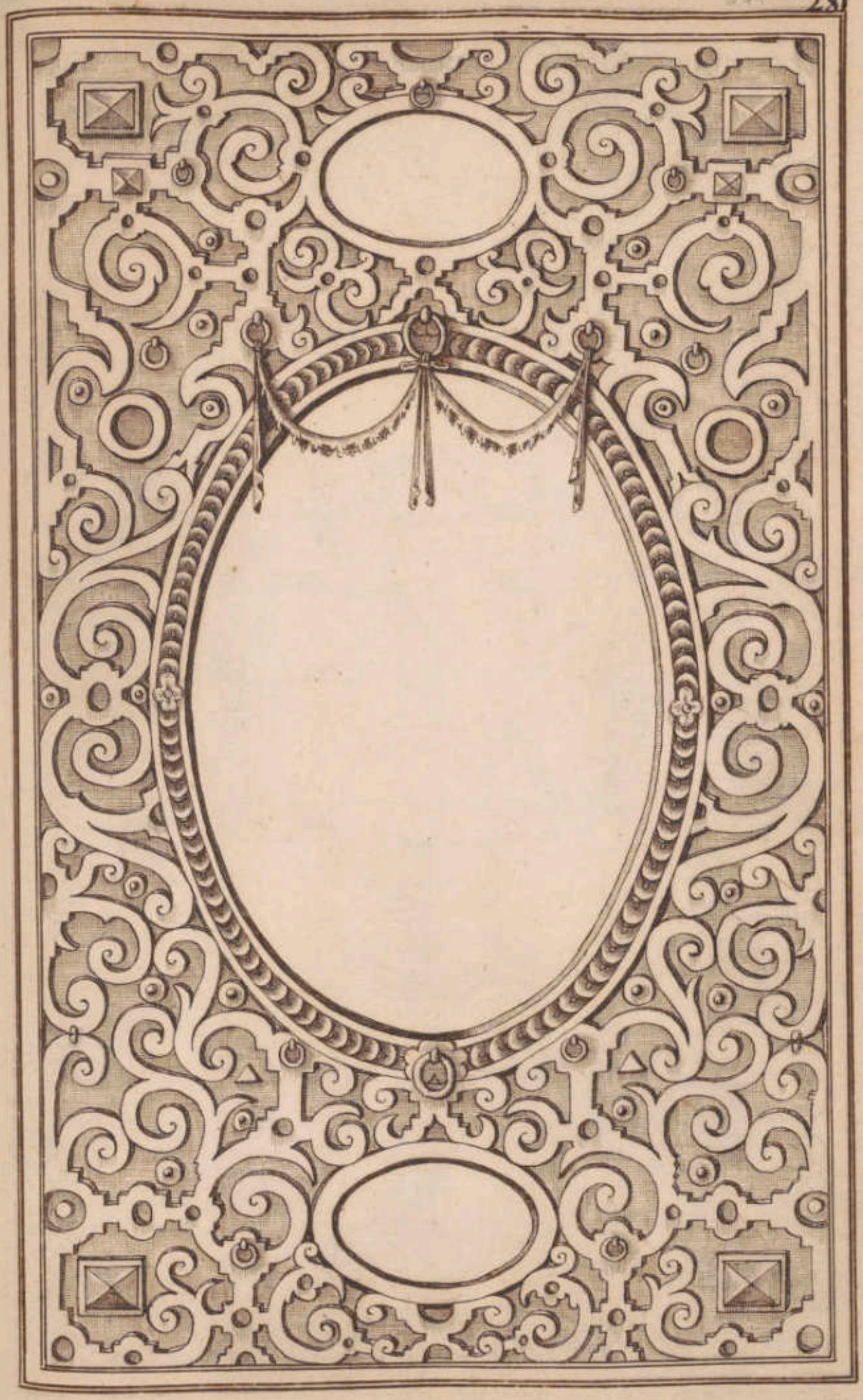


La facon pour faire un pont double pour passer Sparrots a Une Redoubte ou tranchement. A l'usage des Hollandois.

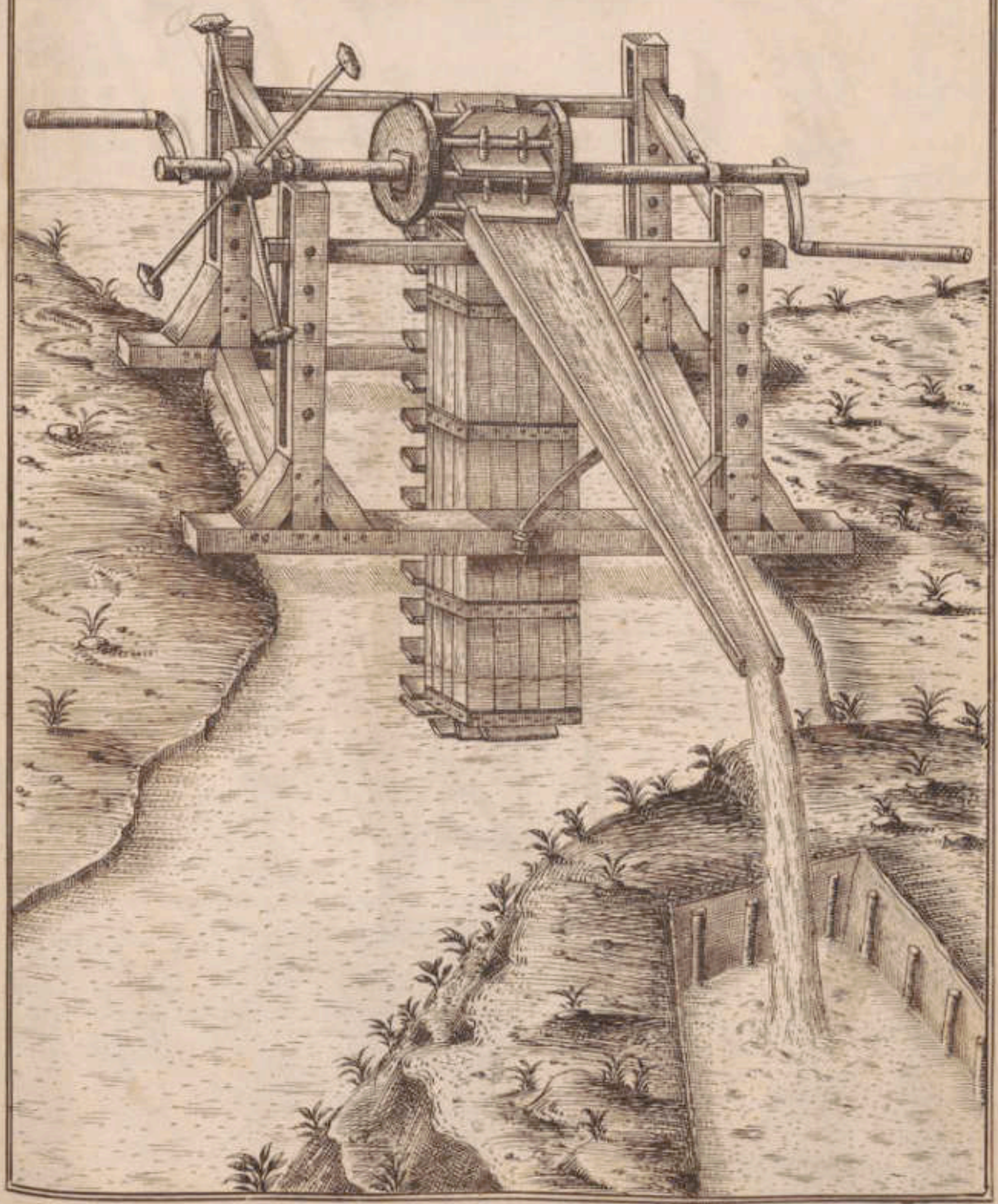
Autre pont simple pour le meme effet.

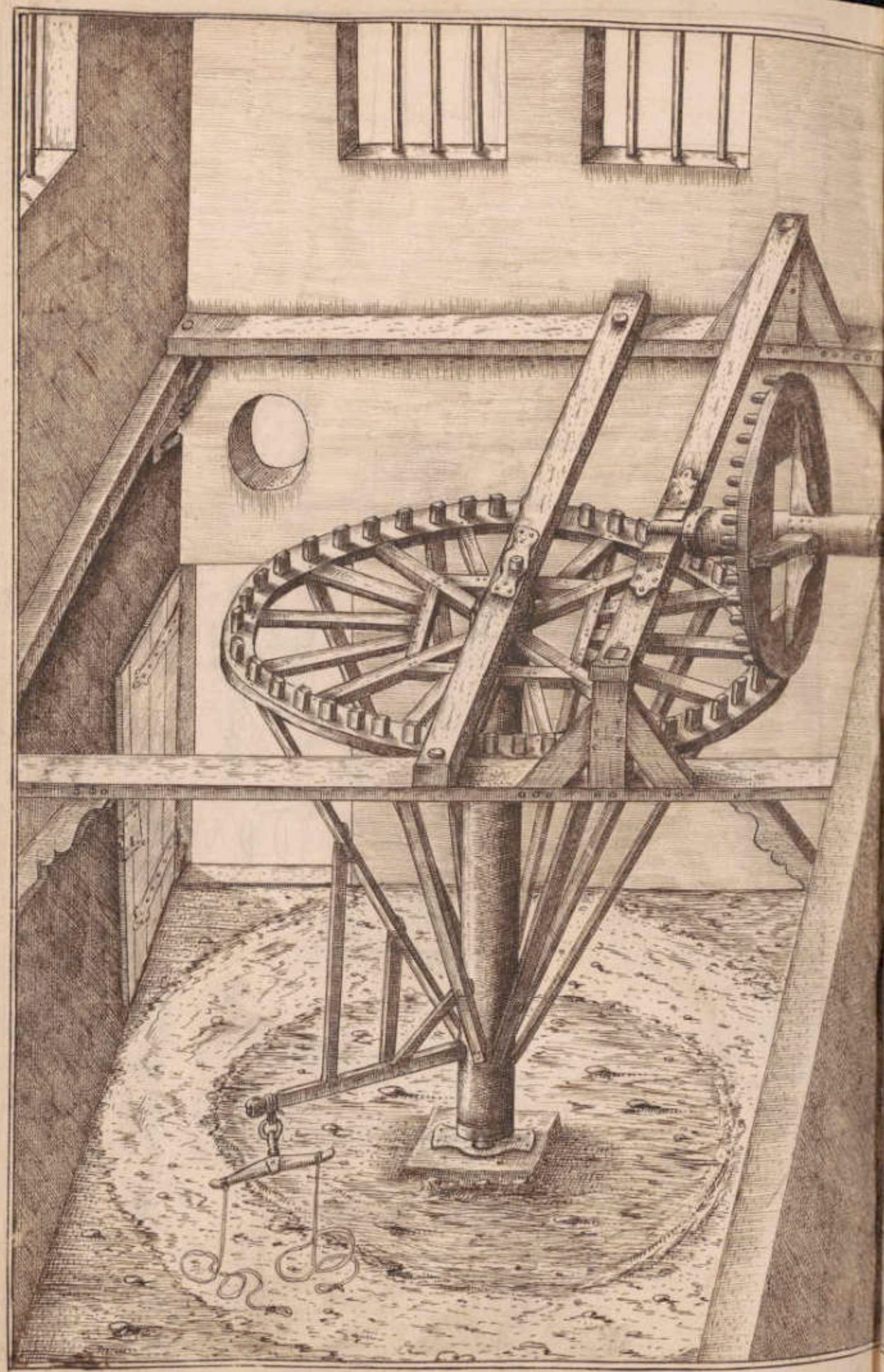




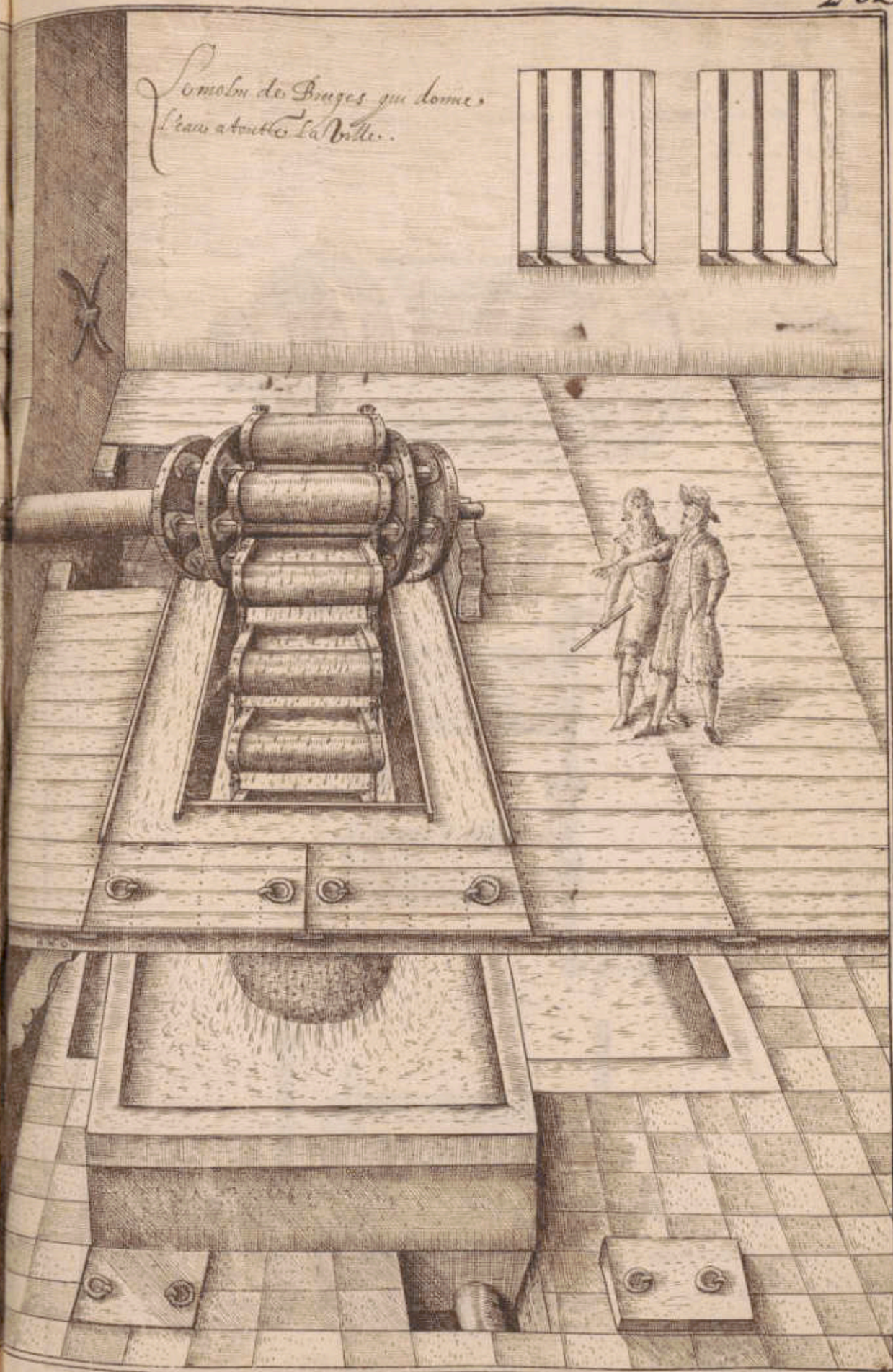


Le molin a l'eau de Mulet pour faire monter les eaux ou qu'on desire,

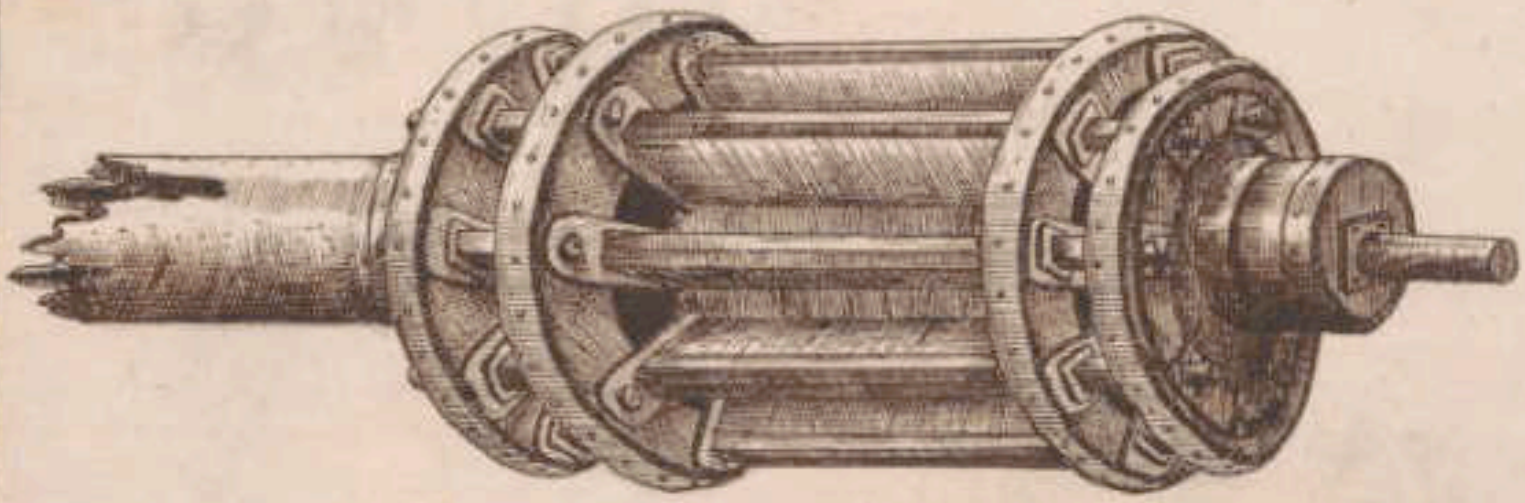




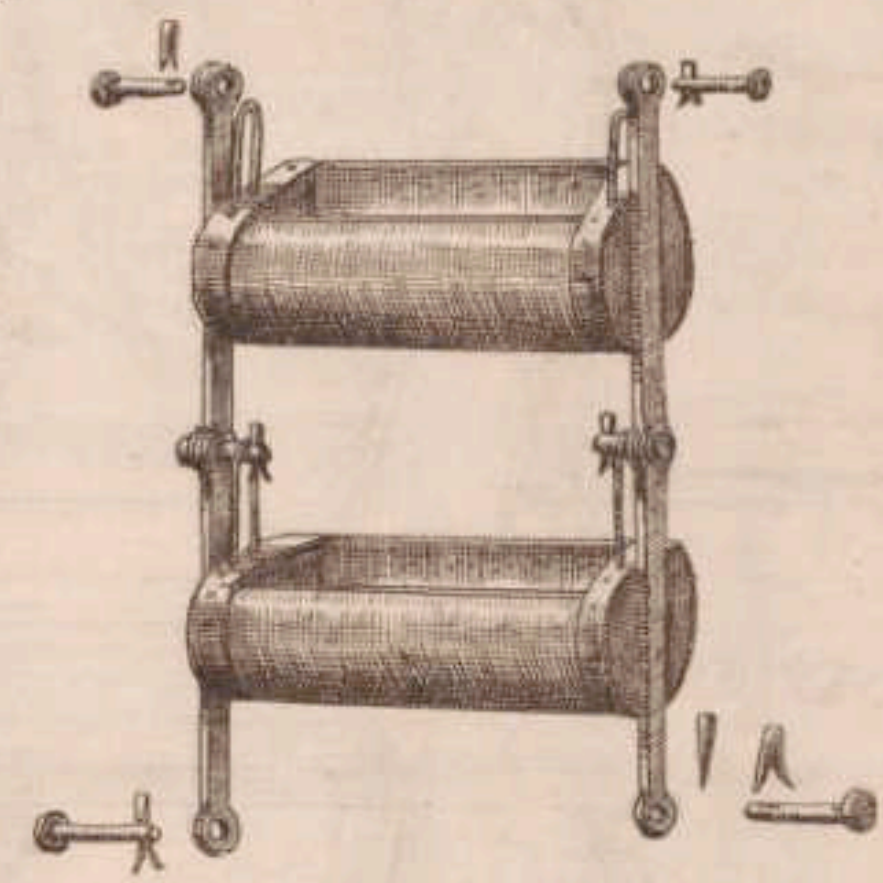
Le molin de Bruges qui donne l'eau a toute la Ville.

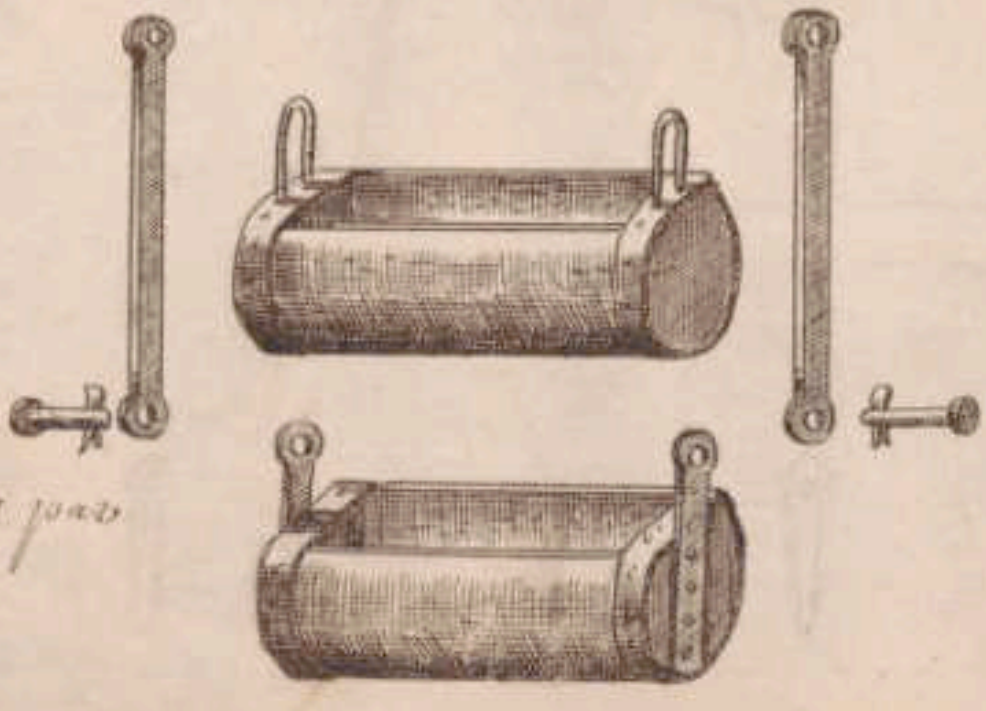


La lanterne, en quoy tournent les bacques, et lequel recoit et separe l'eau

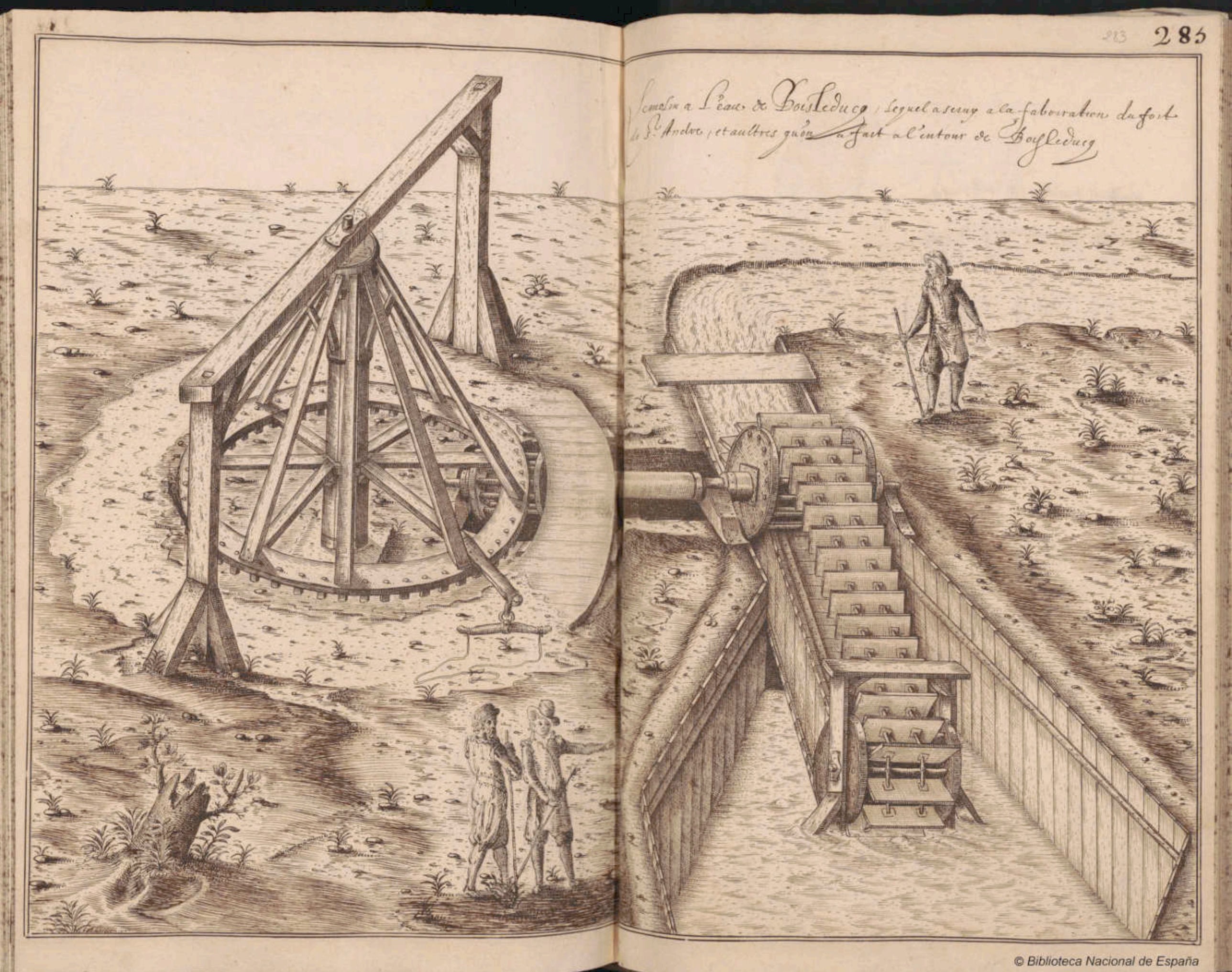


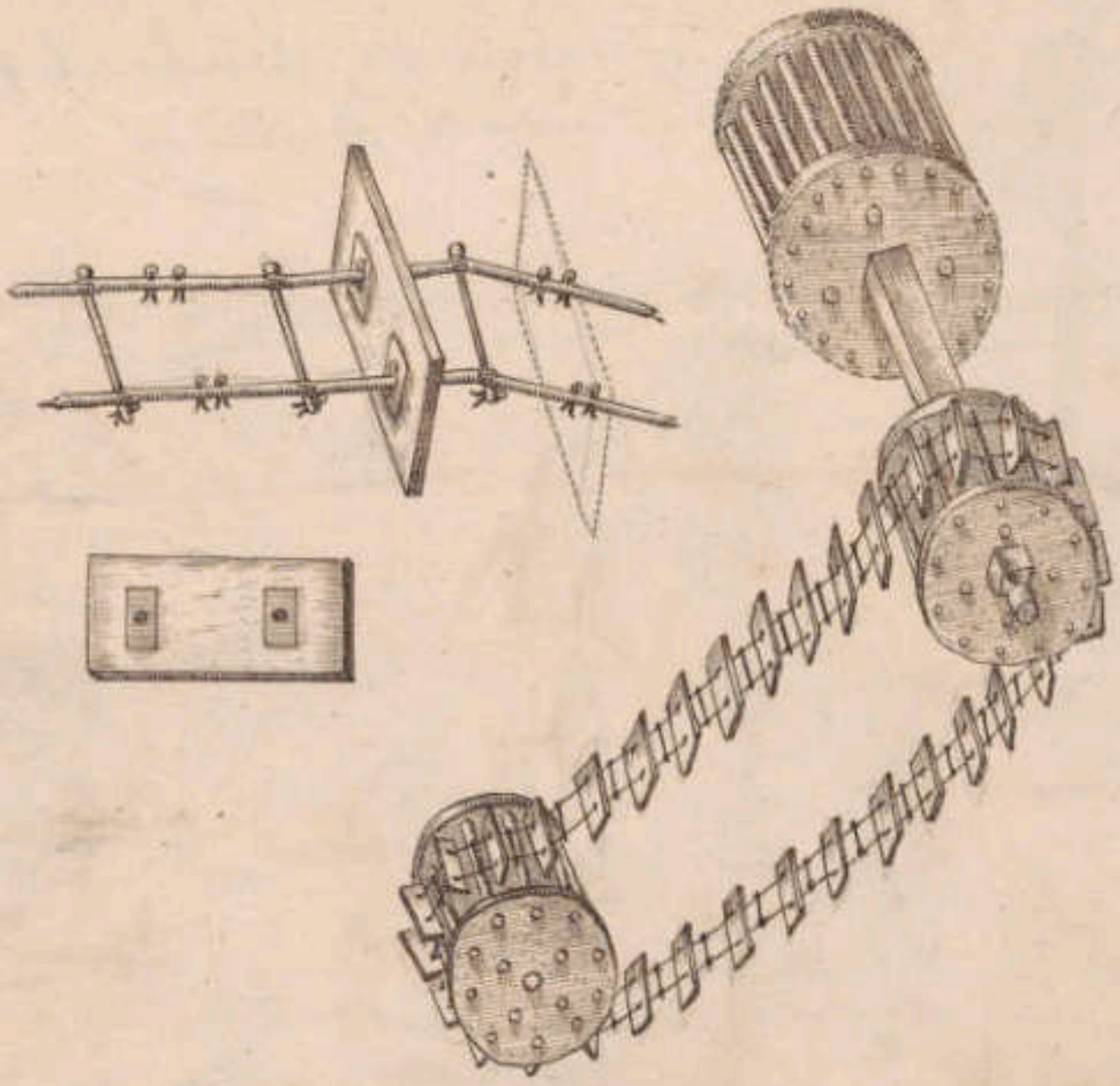
Les Bacques attache ensemble

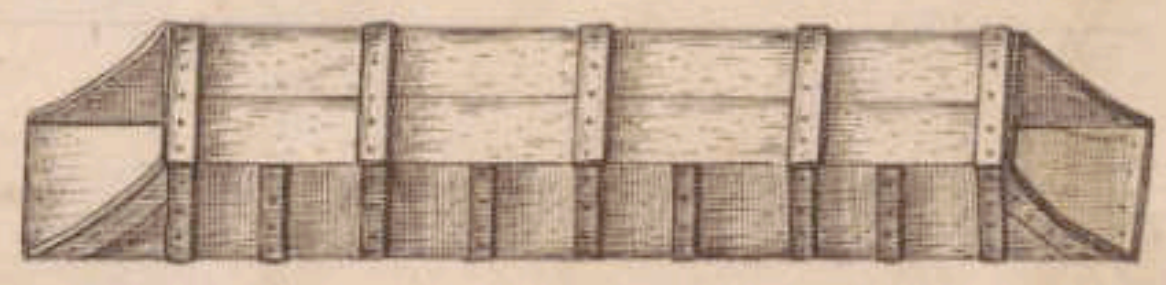


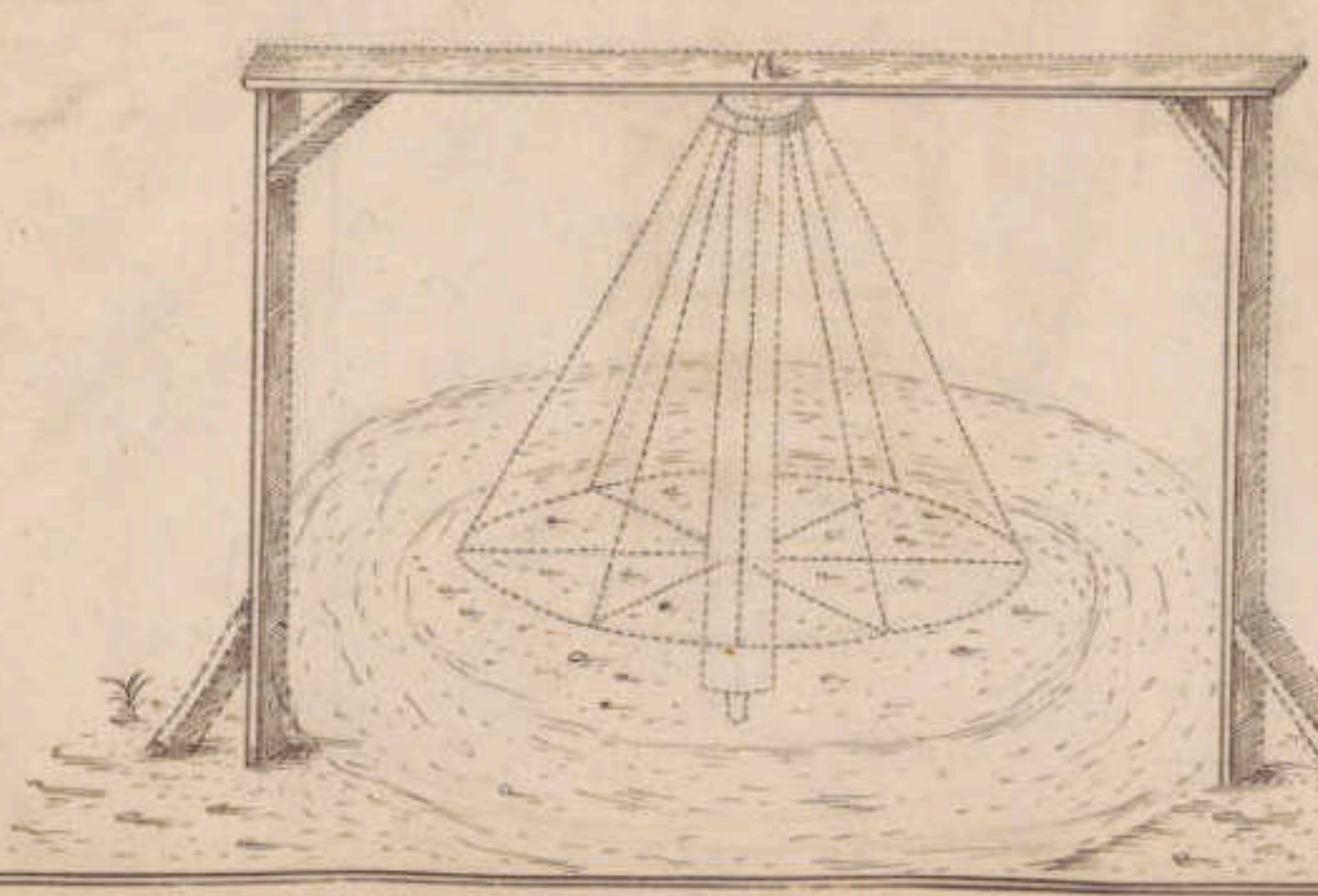


Les Bacques demontes par pieches ..









A. La Lanterne en quoy va la grande Roue

B. Les deux Lanternes en quoy va le mouvement des planches qui attirent l'eau.

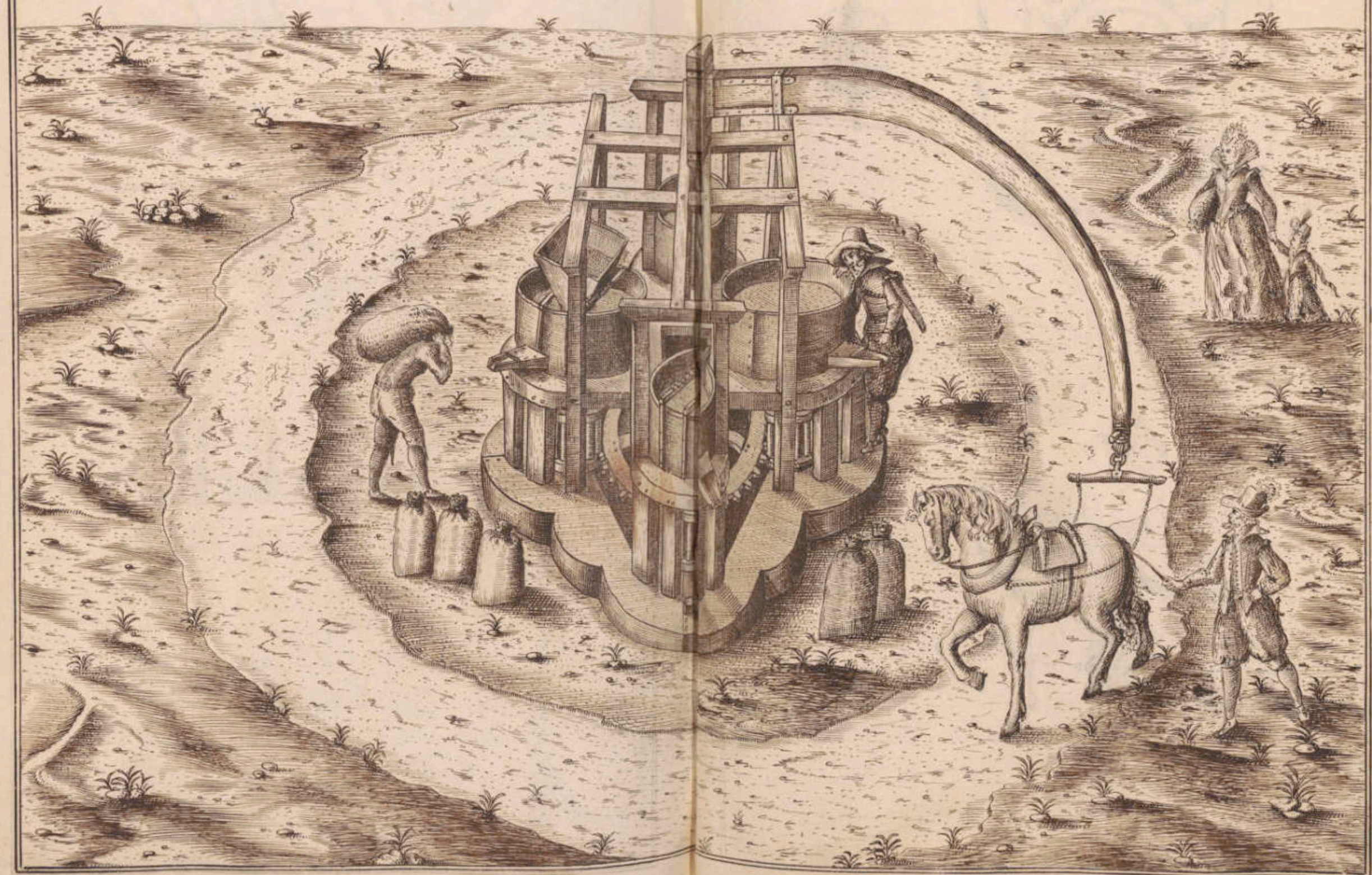
C. Le mouvement des planches en gran.

D. Le maniere que les planches doivent estre.

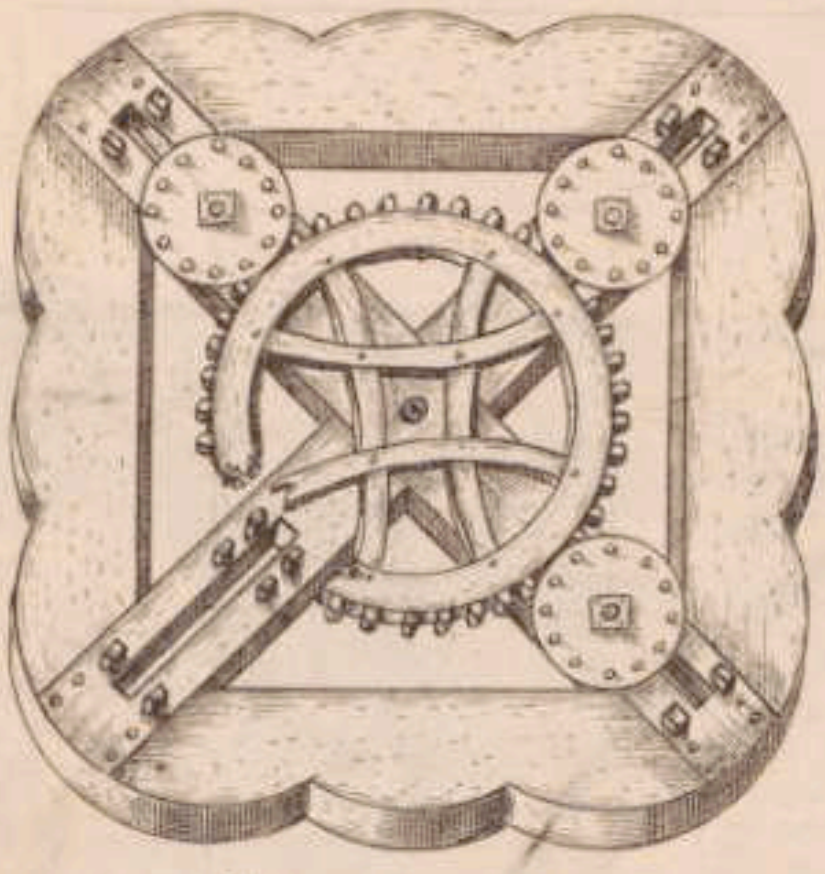
E. La Casse ou Canal en quoy les planches ont leur Conduite.

F. La grande Roue que fait aller tout les molin. et mouvements.

Le moulin que at esté gaigné dans la ville de Ransbeck

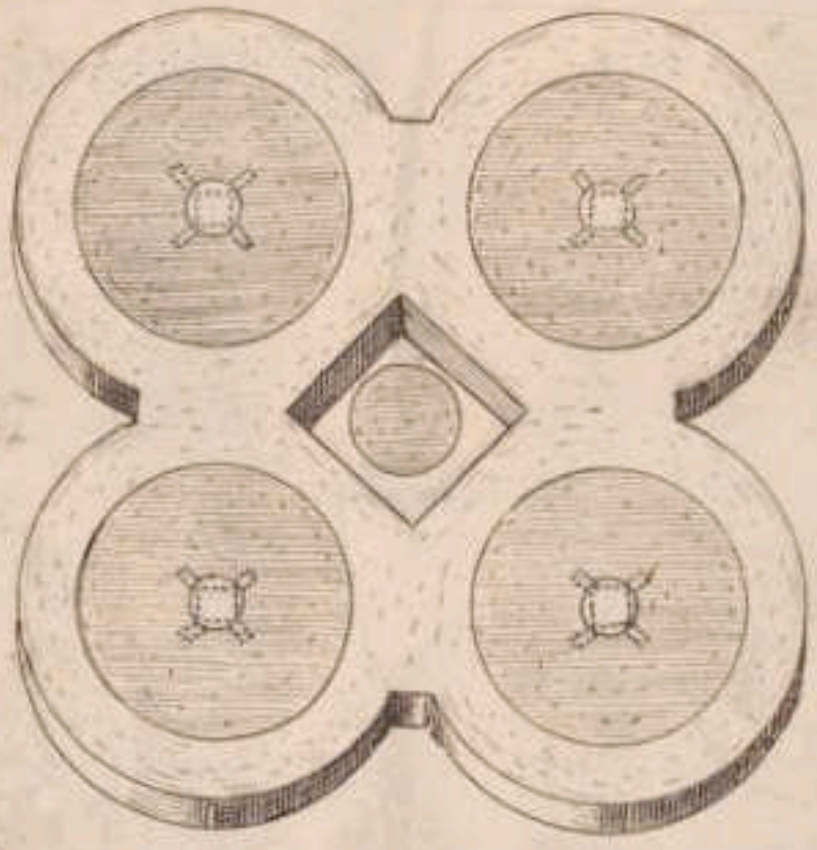


Le premier estage du fond au pied du molin

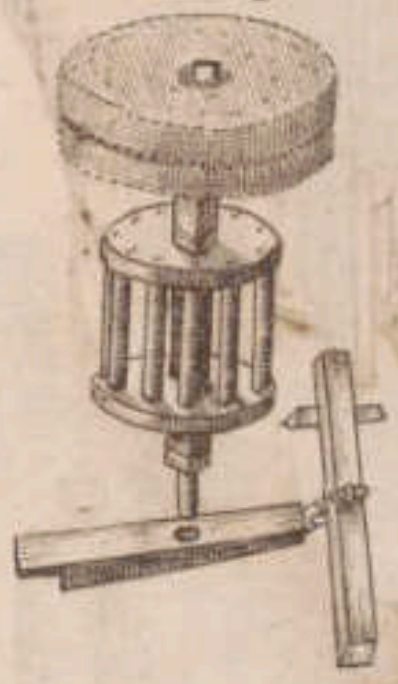


La lanterne

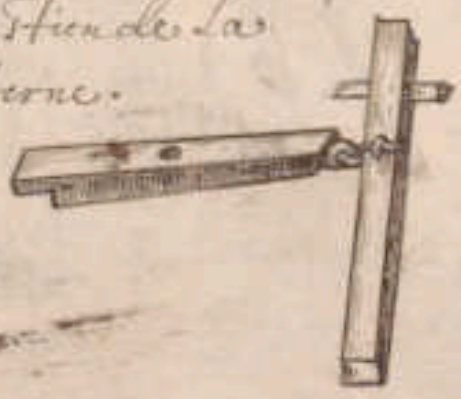
Le seconde estage ou sont les meules.

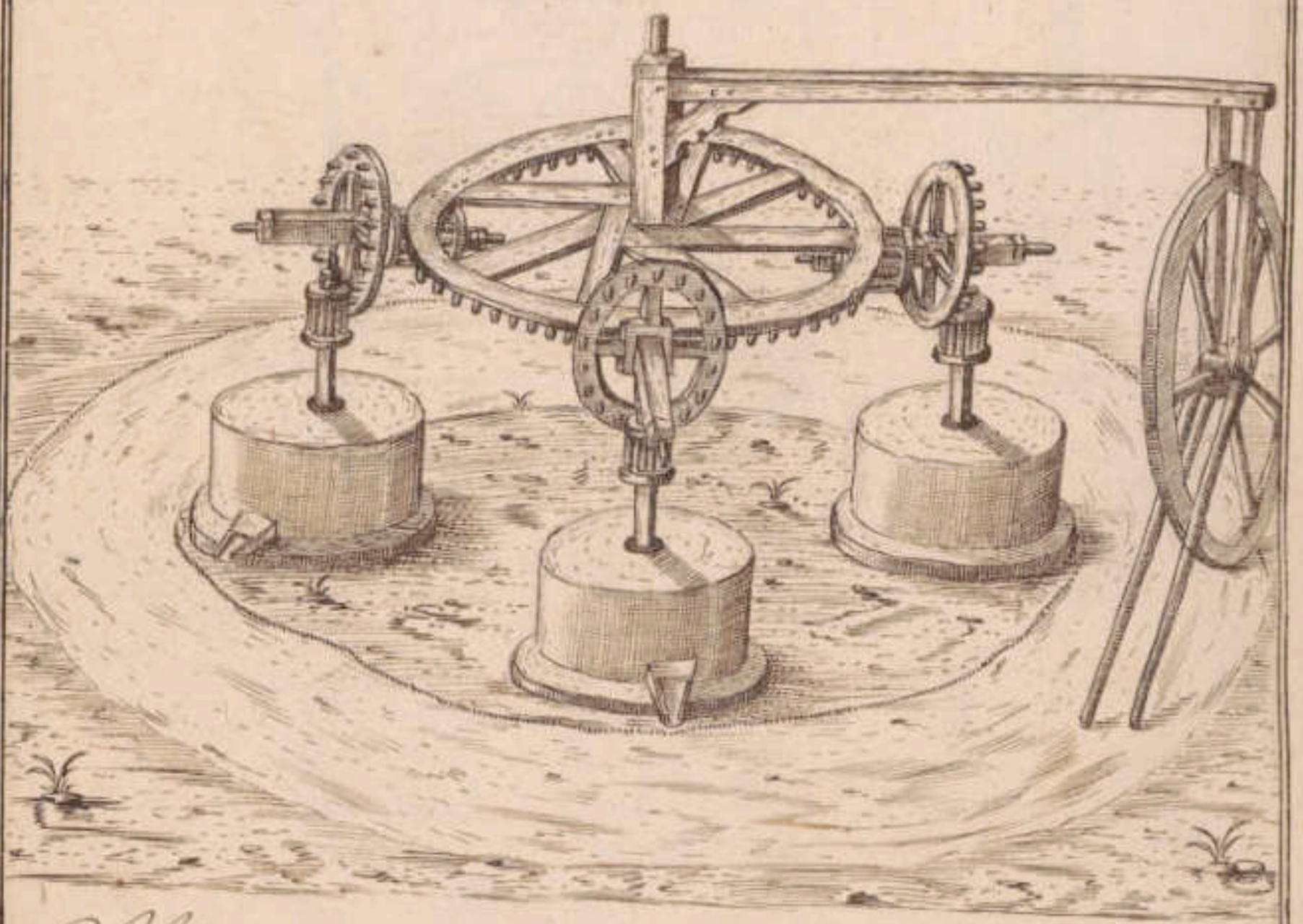


La lanterne avec ses meules

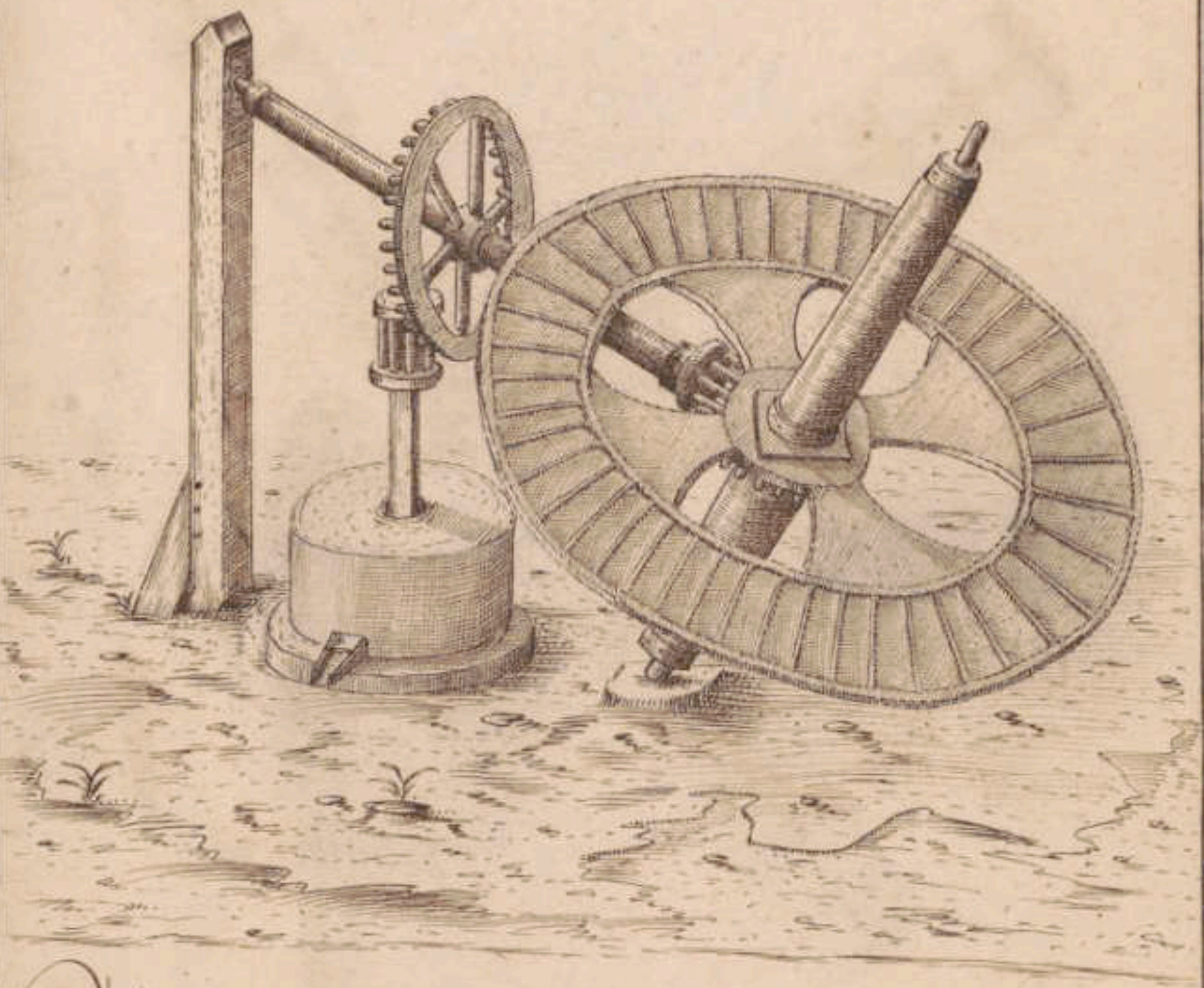


Le sonstien de la lanterne.

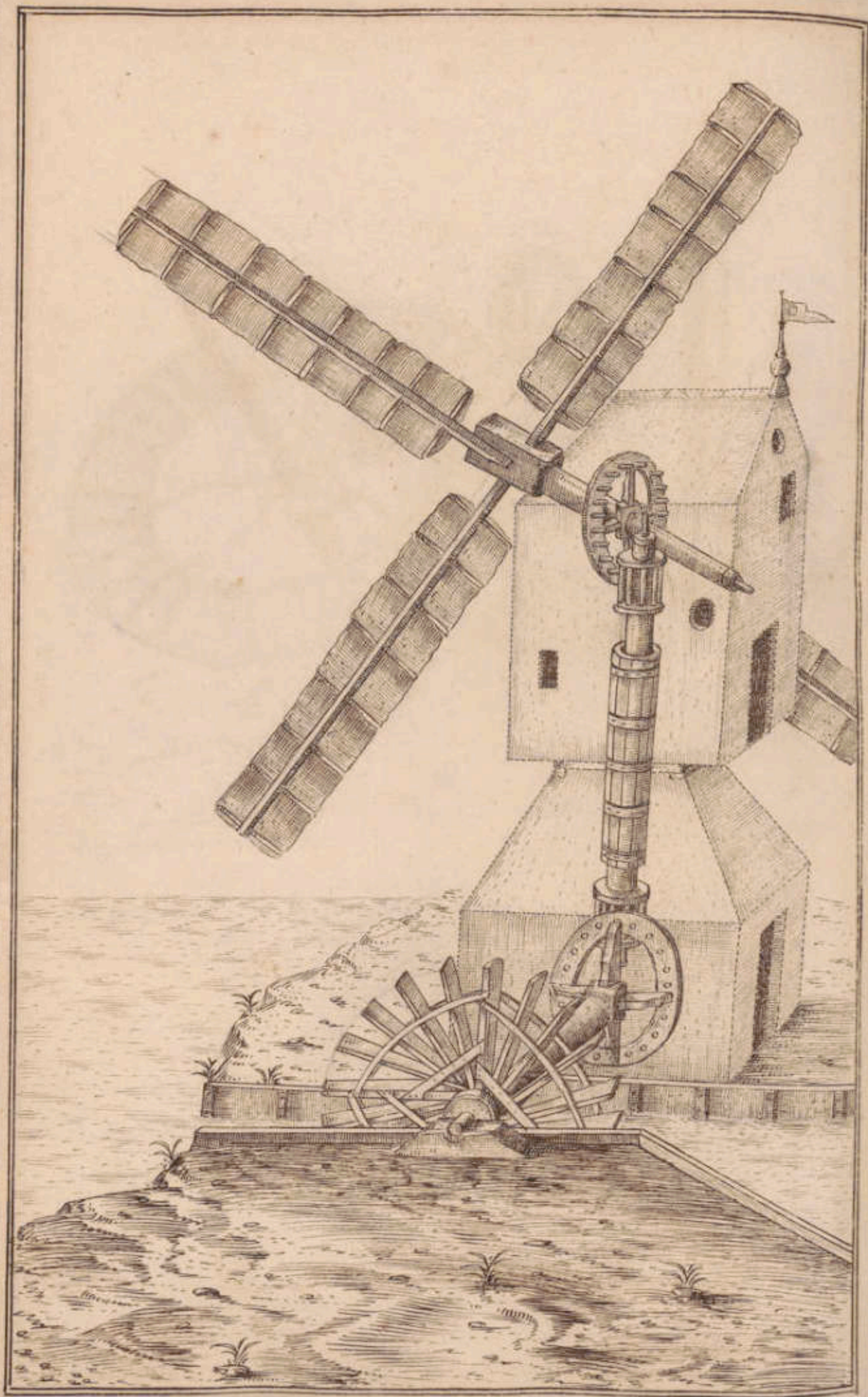


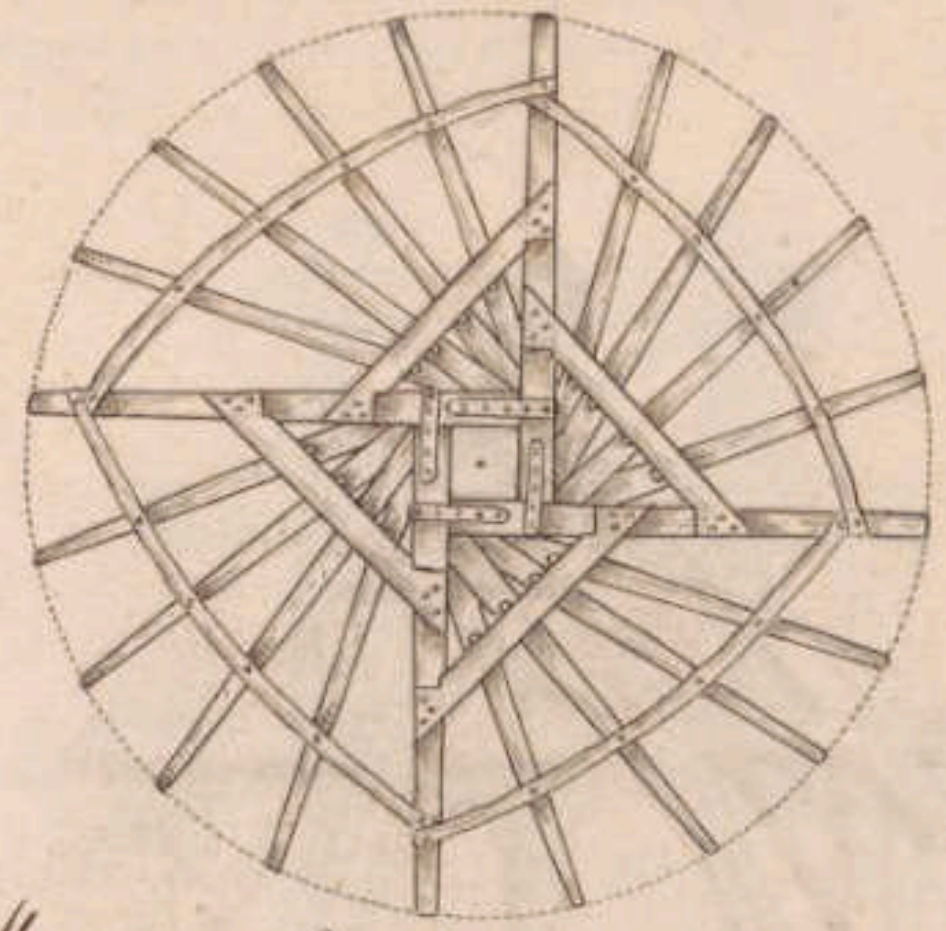


Molin a trois meules pour mondre du gram Avec vn Cheval. propre pour les places assiegées

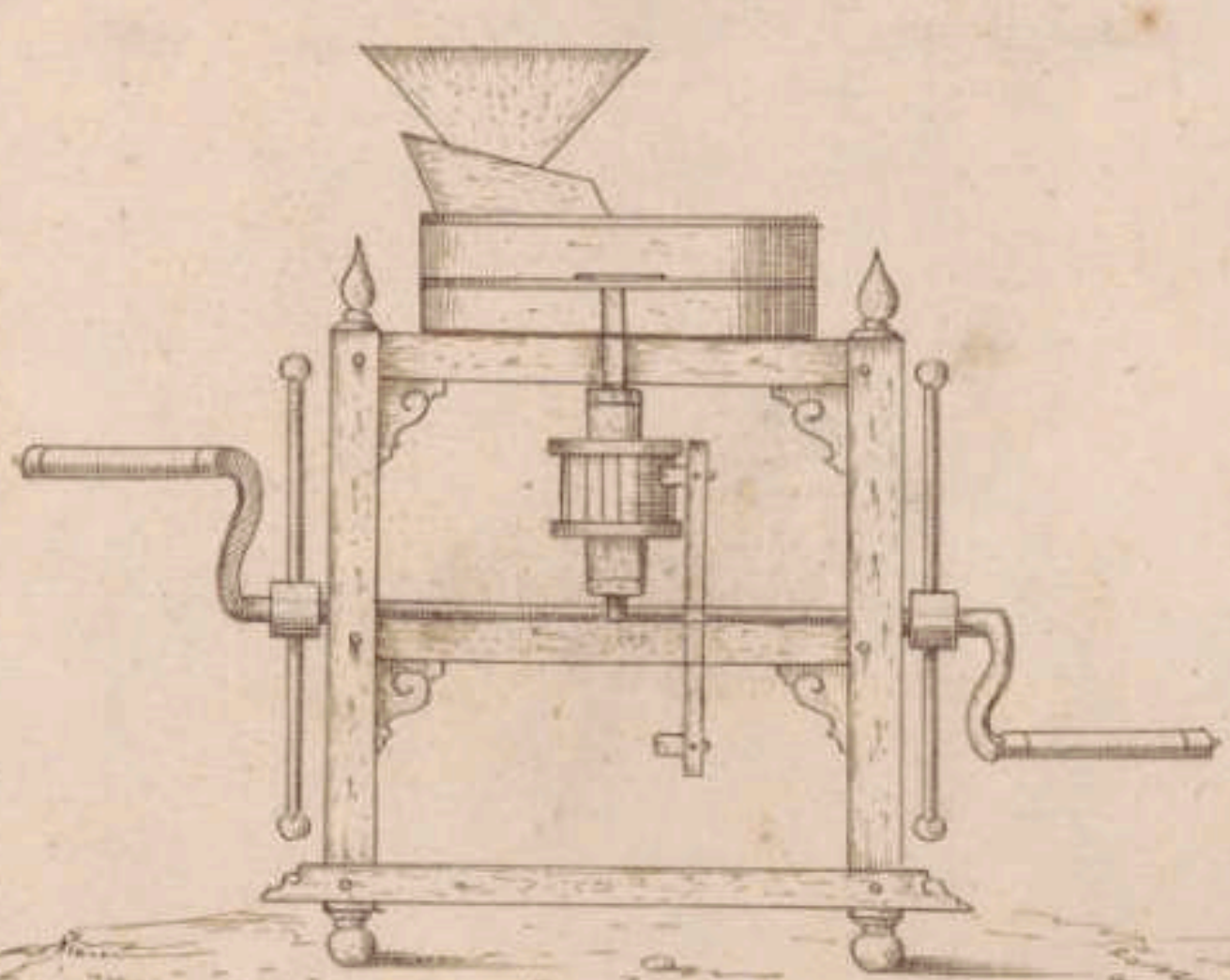


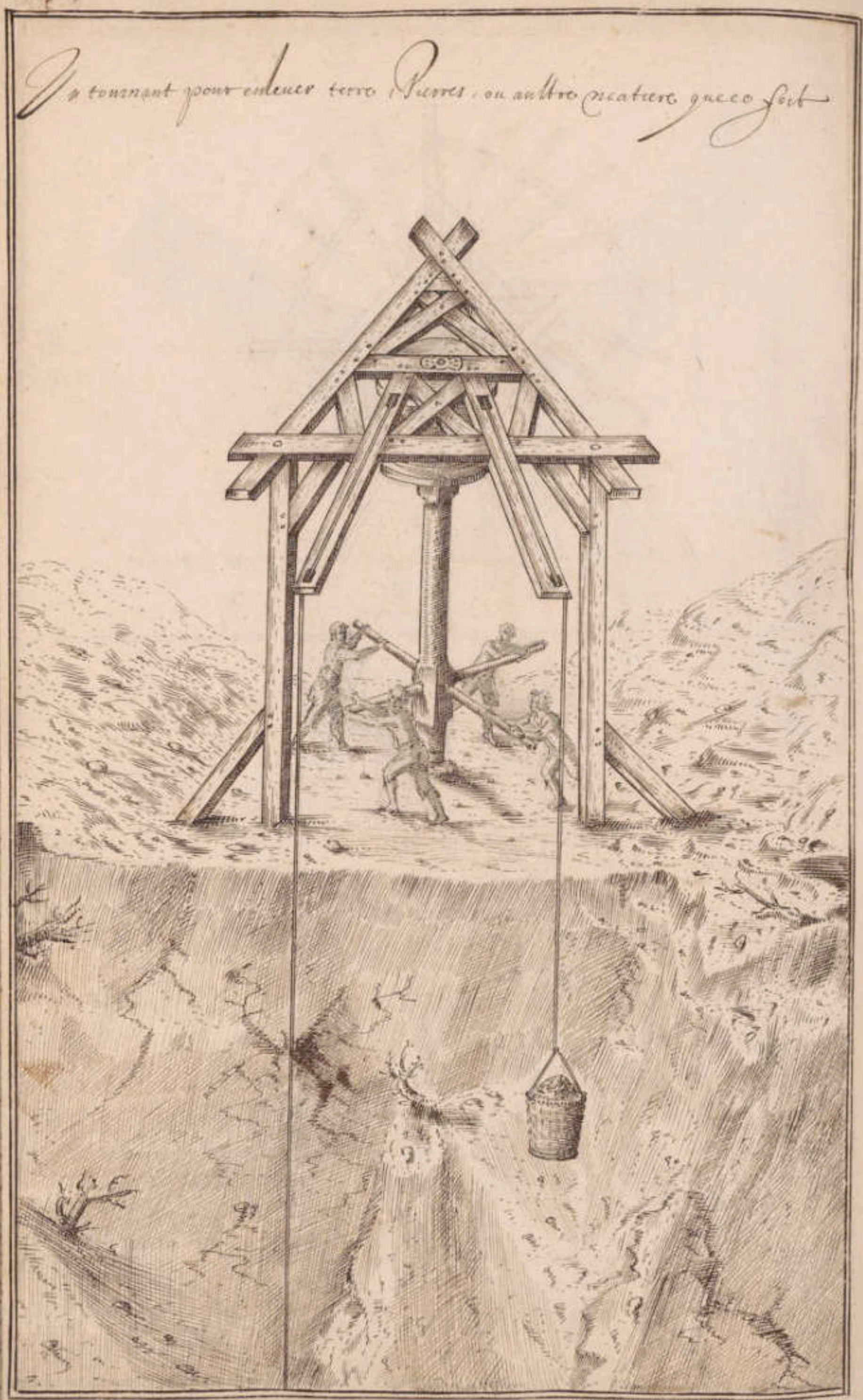
Molin a une moule pour faire mouder avec un Beuf.



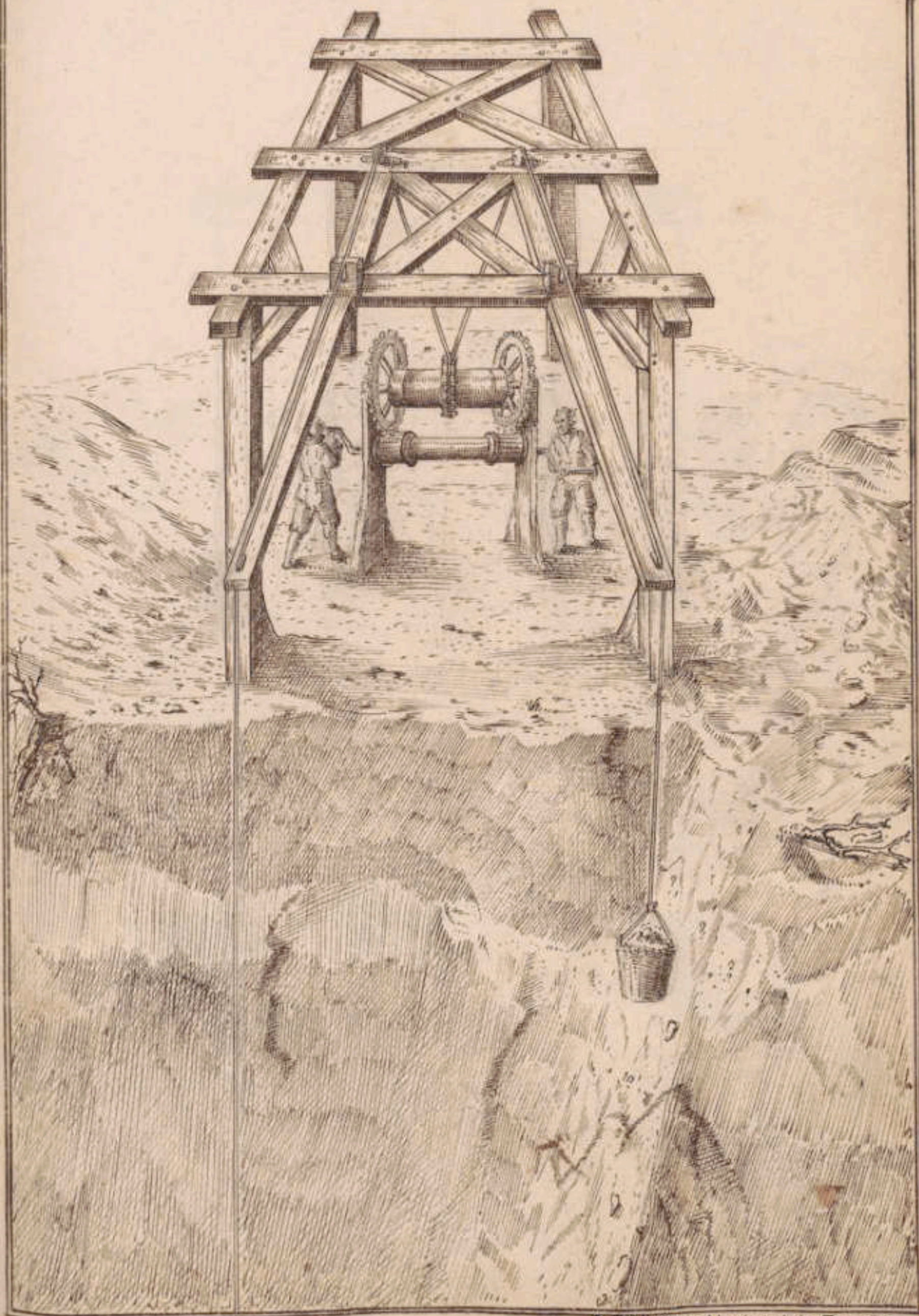


Molen de Holland de gruy se suchent lanz poldres ; et pays Inwonde

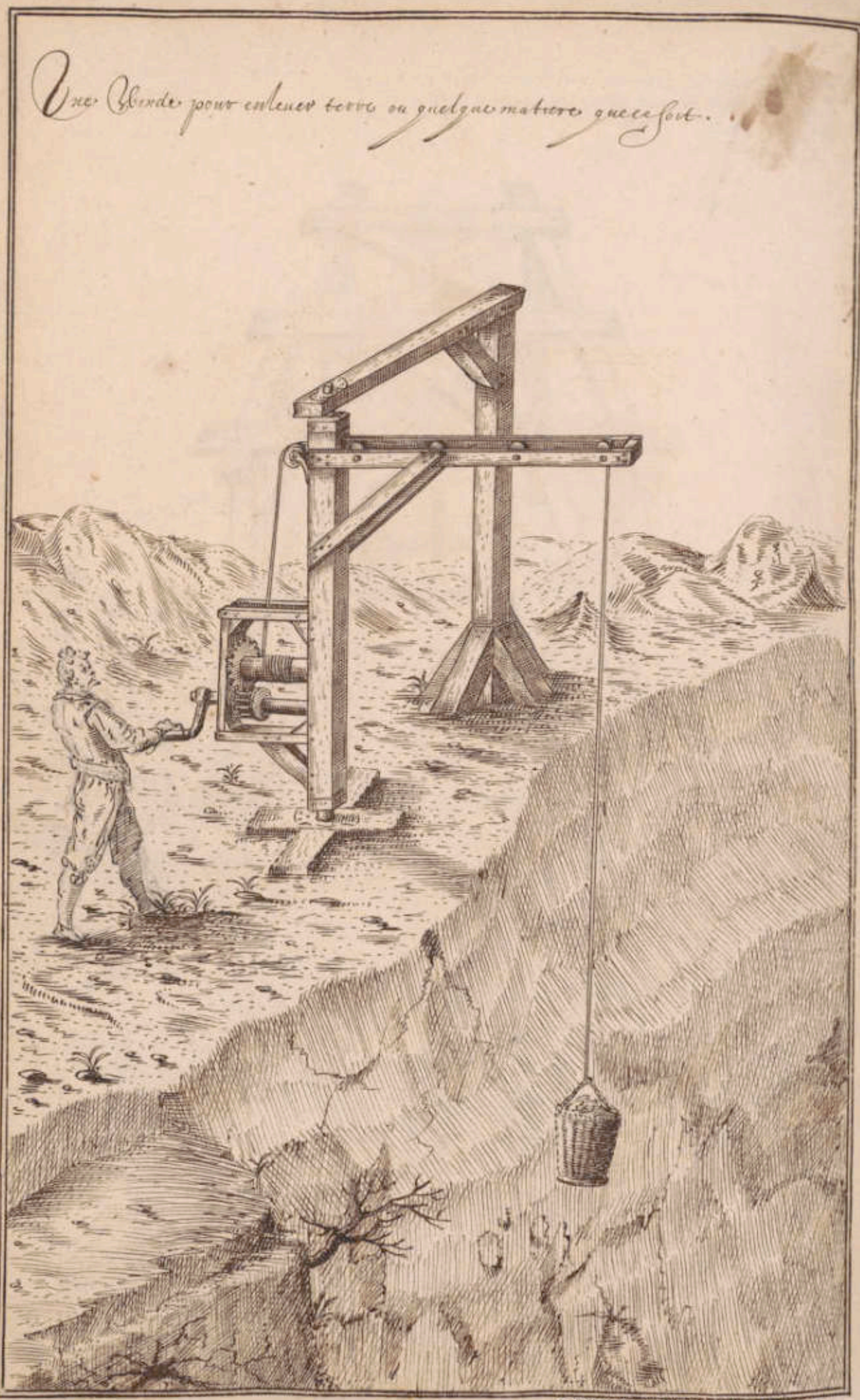




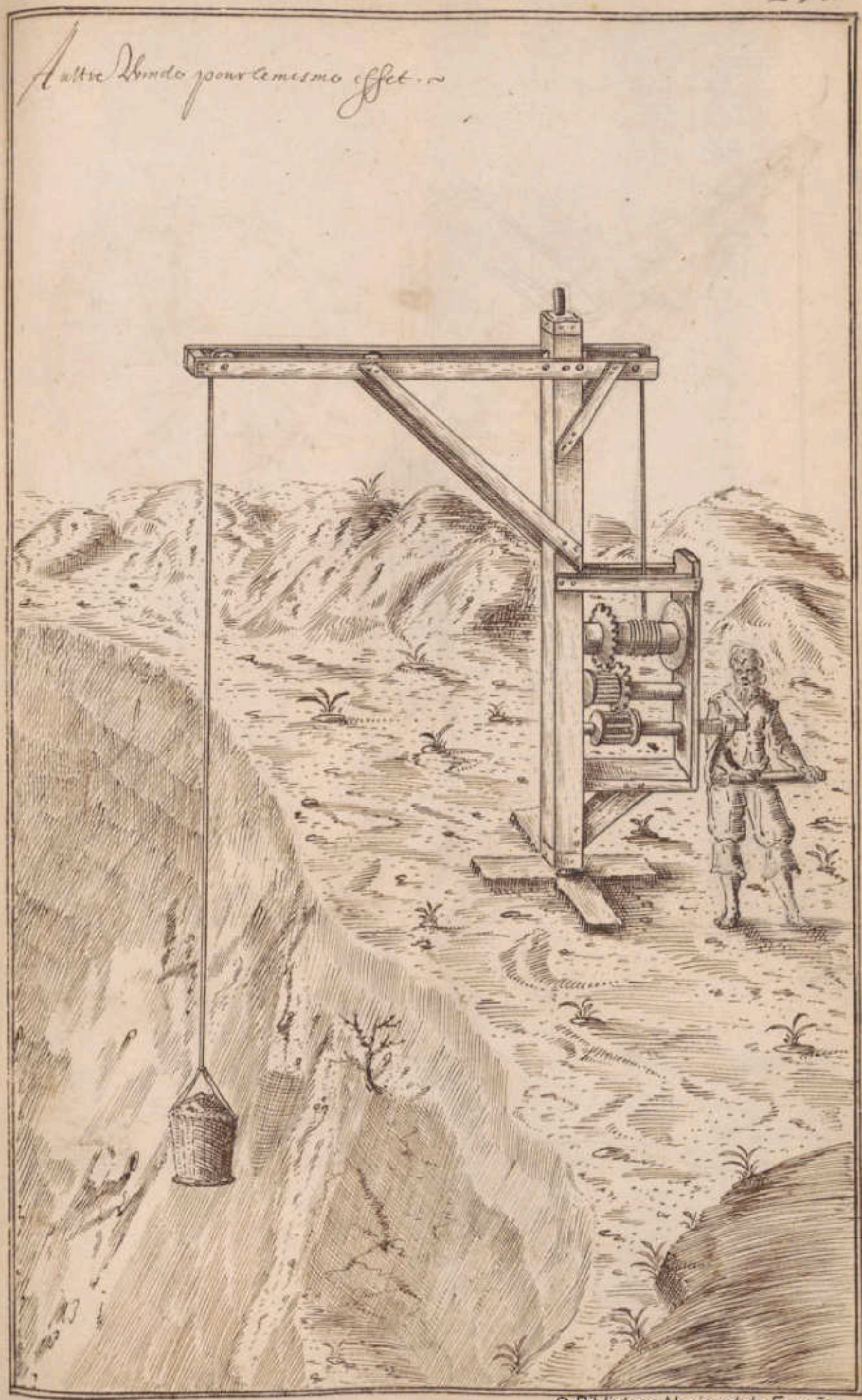
A Altre tournant pour le mesme effet.



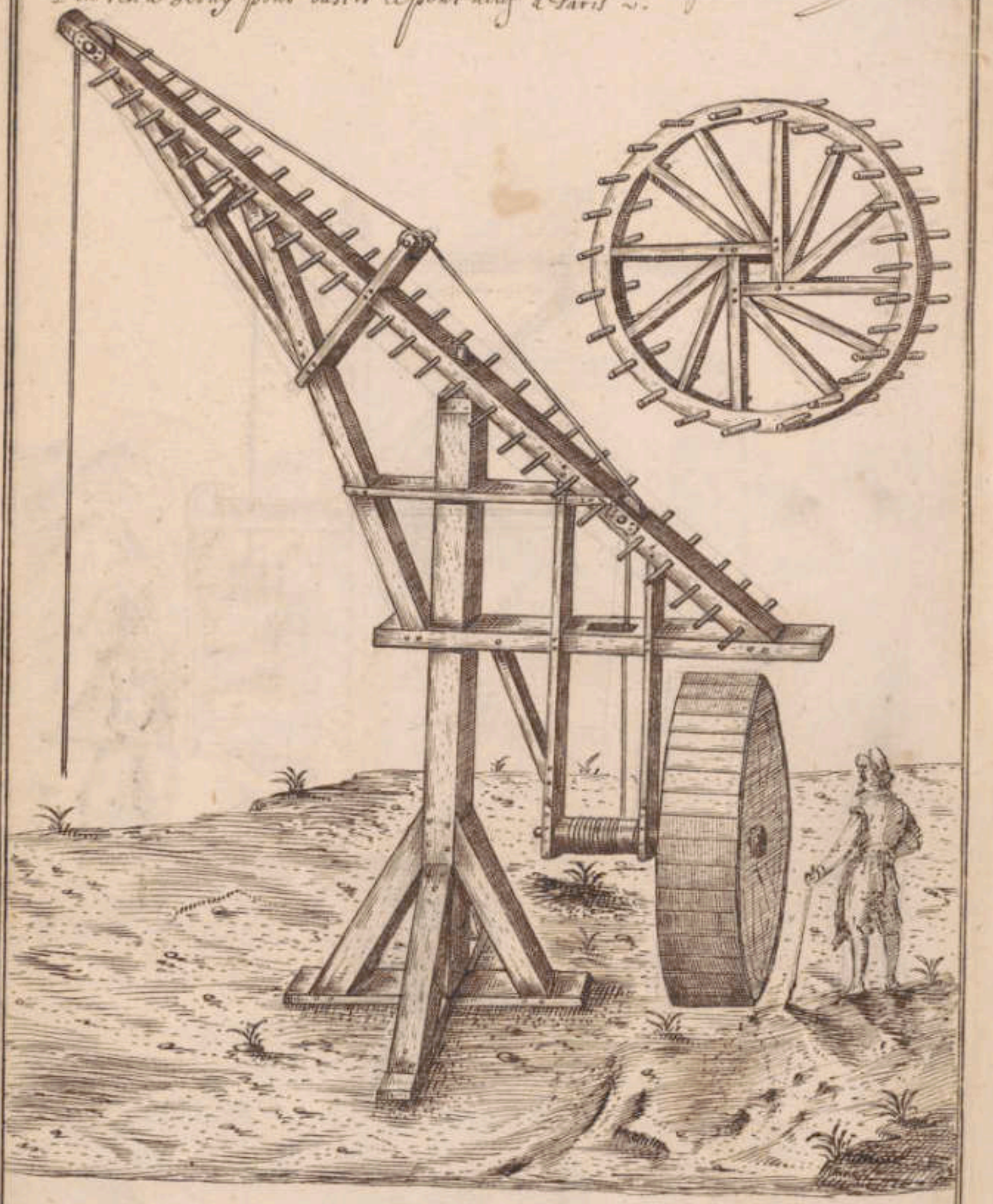
Une Bonde pour enlever terre ou quelque matiere que ce soit.

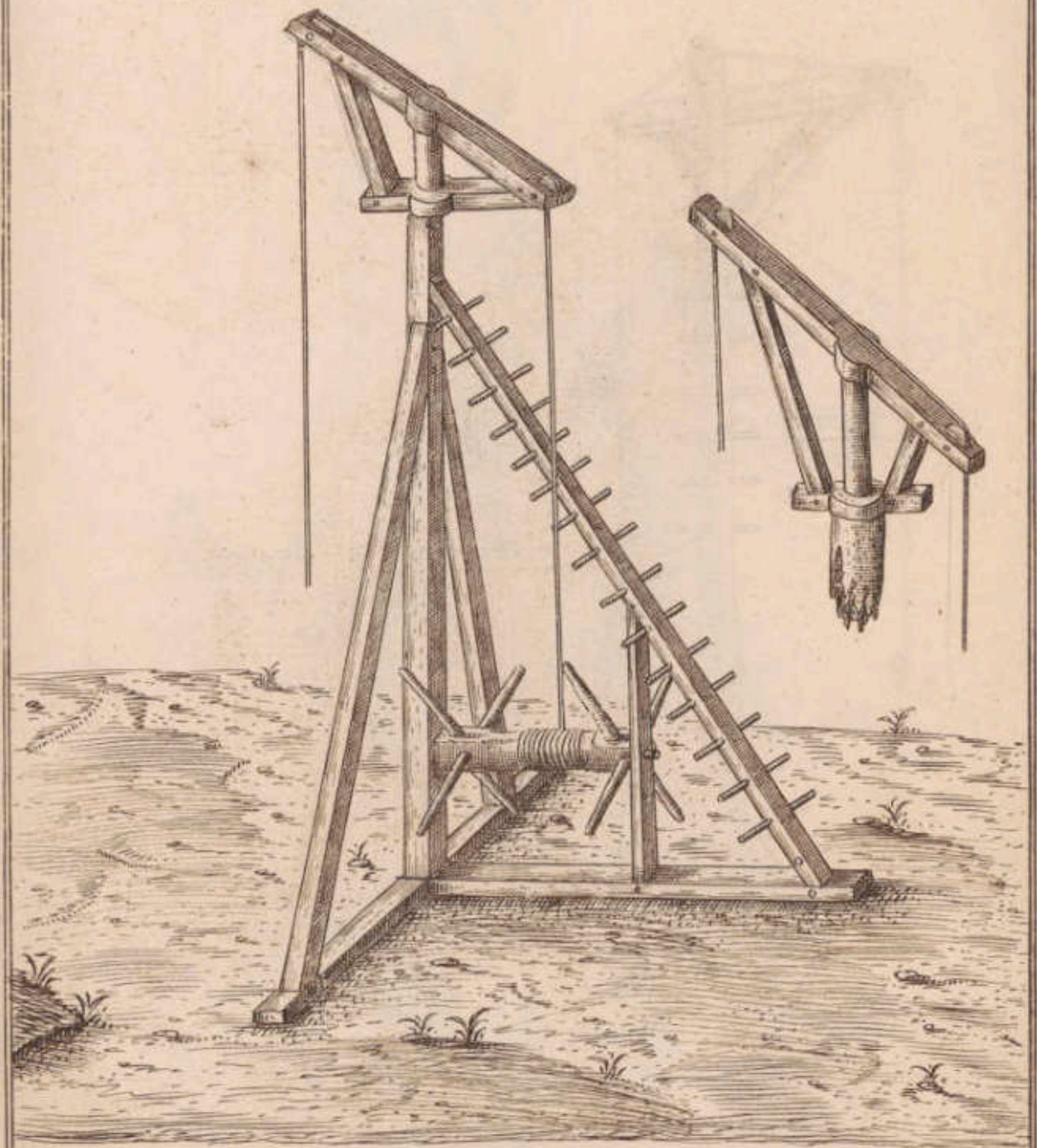


Autre Abindo pour le mesmo effet.



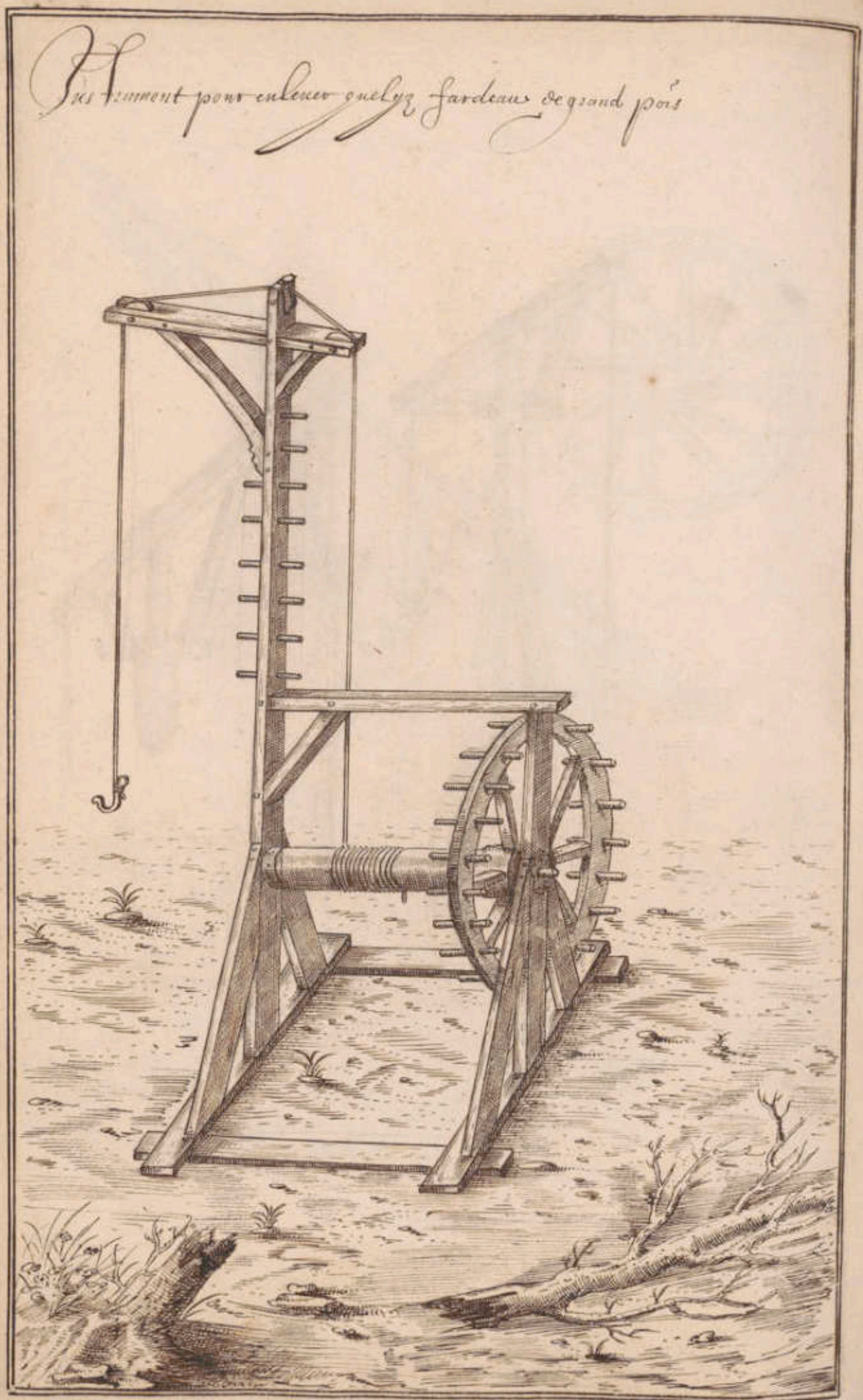
Grame pour enlever des grandes pierres en autres choses pesantes, duquel l'on s'est seruy pour bastir le pont neuf a Paris.



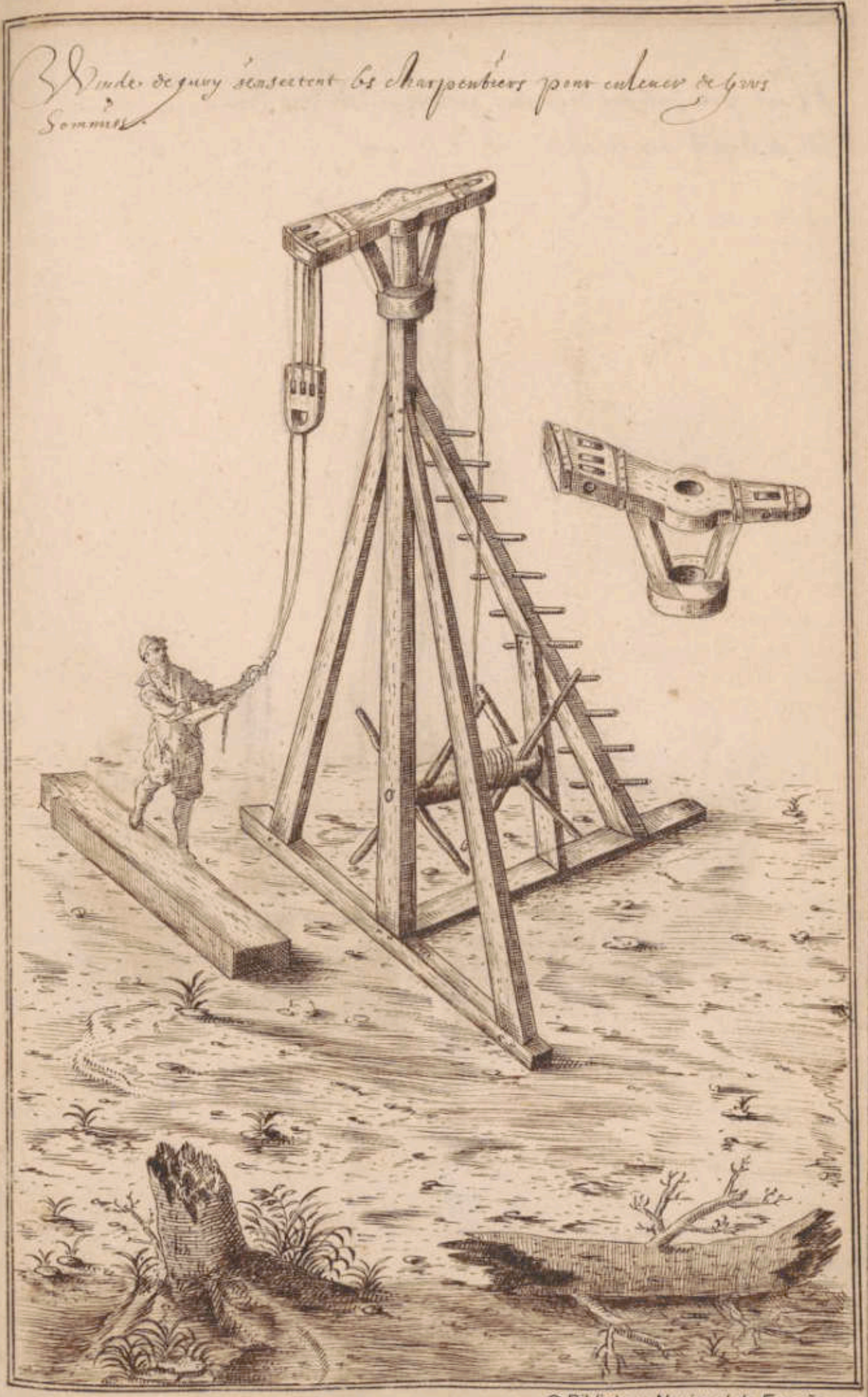


Grue pour enlever grosses pierres et sommiers . 1

Instrumento pour enlever quelqz fardeaux de grand pois

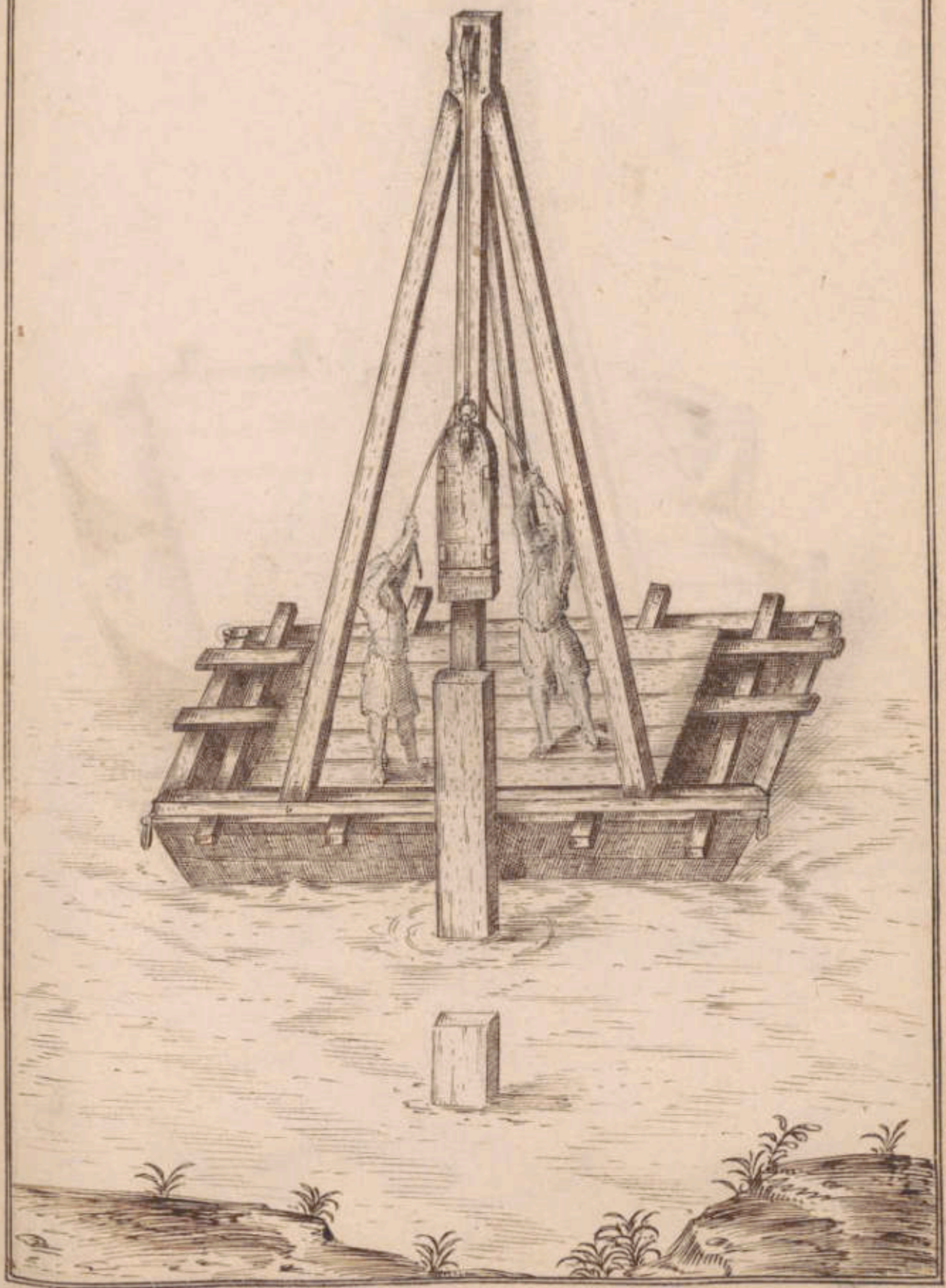


Vnde de guay ésaccent les charpentiers pour enlever de gros sommes.

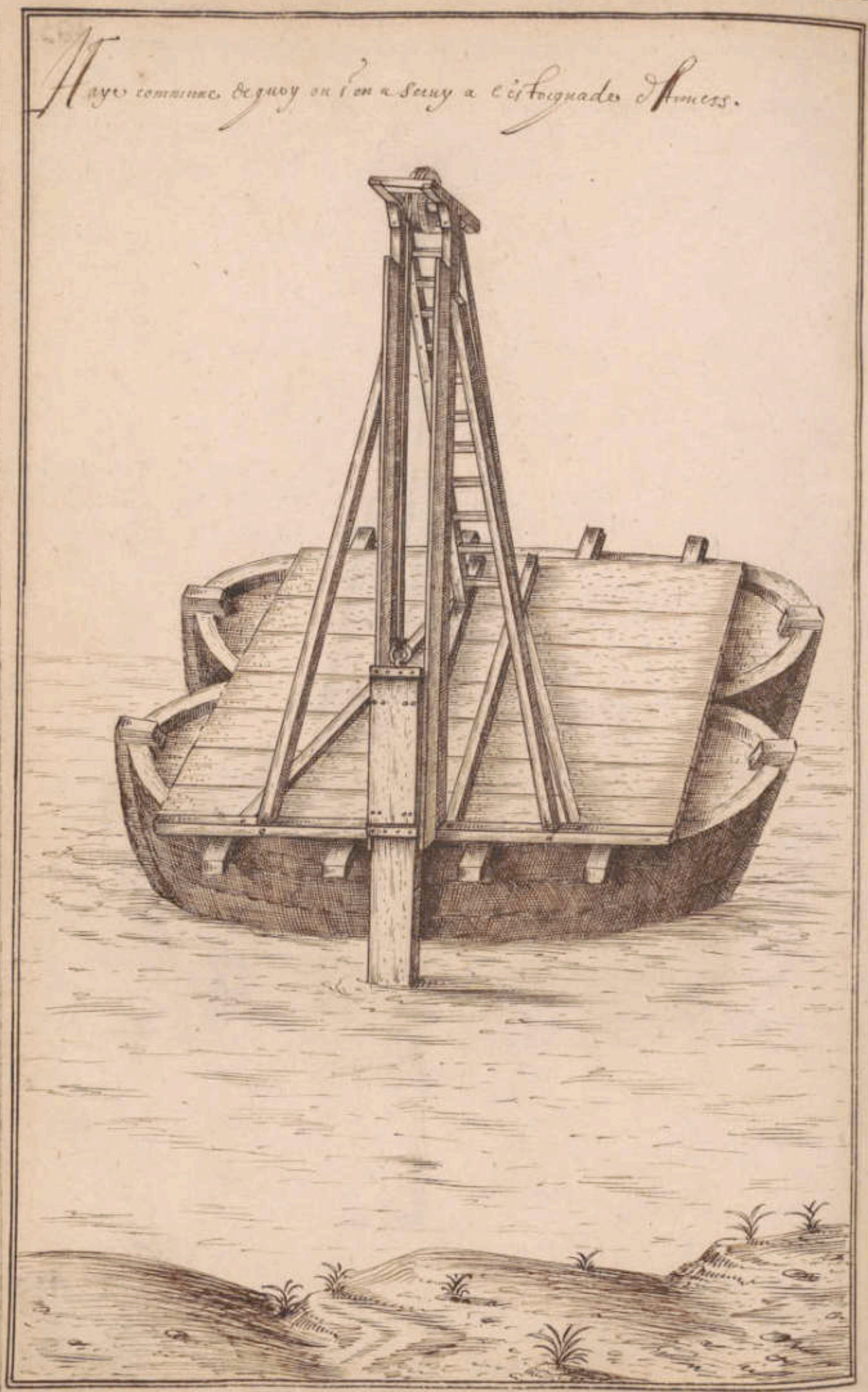


Haye pour pelotter de grosses goillots ou estagnes dans l'eau. de quoy l'on se seruoit sur le Pon.

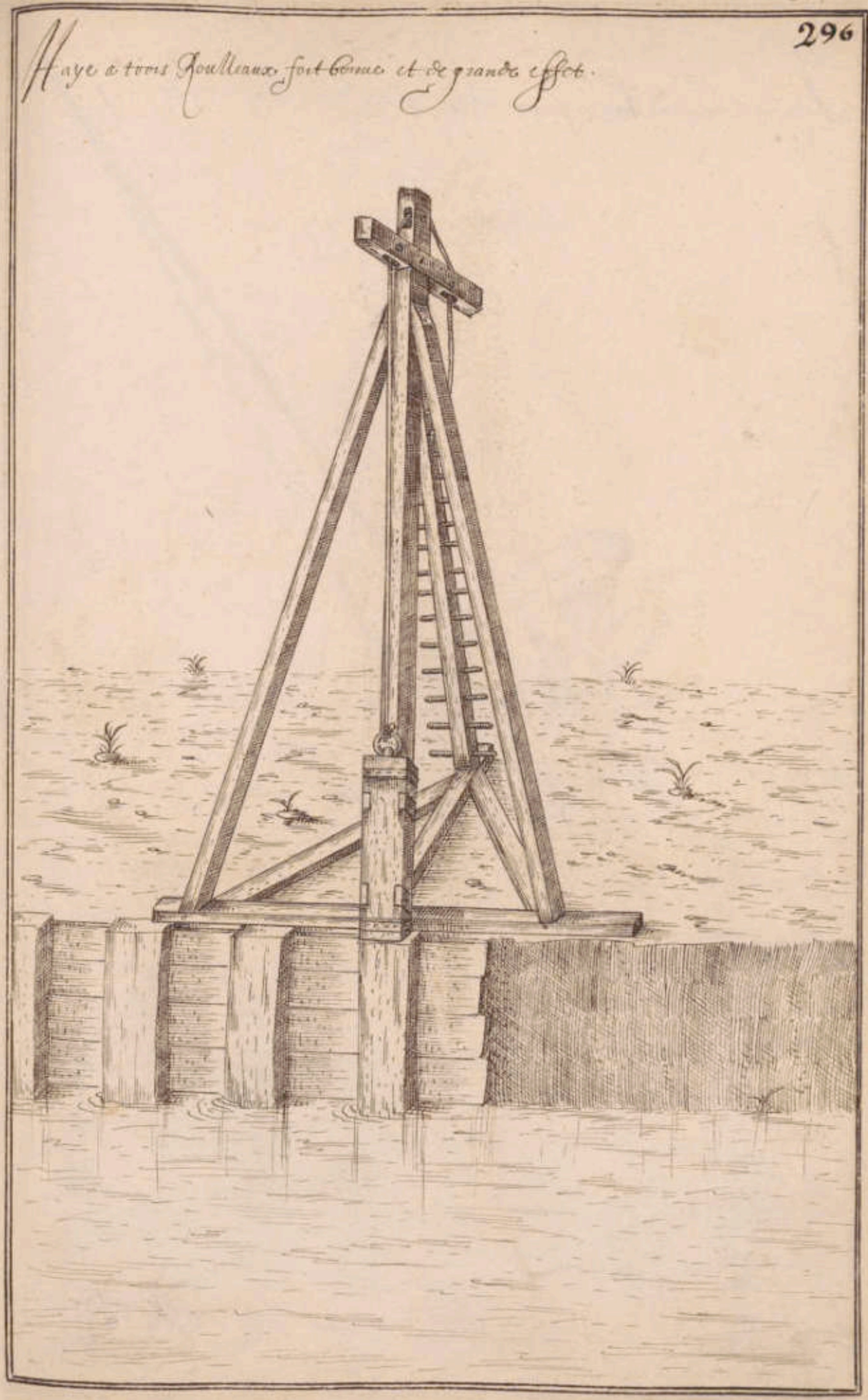
Autre manere de Haye pour le mesme effet.

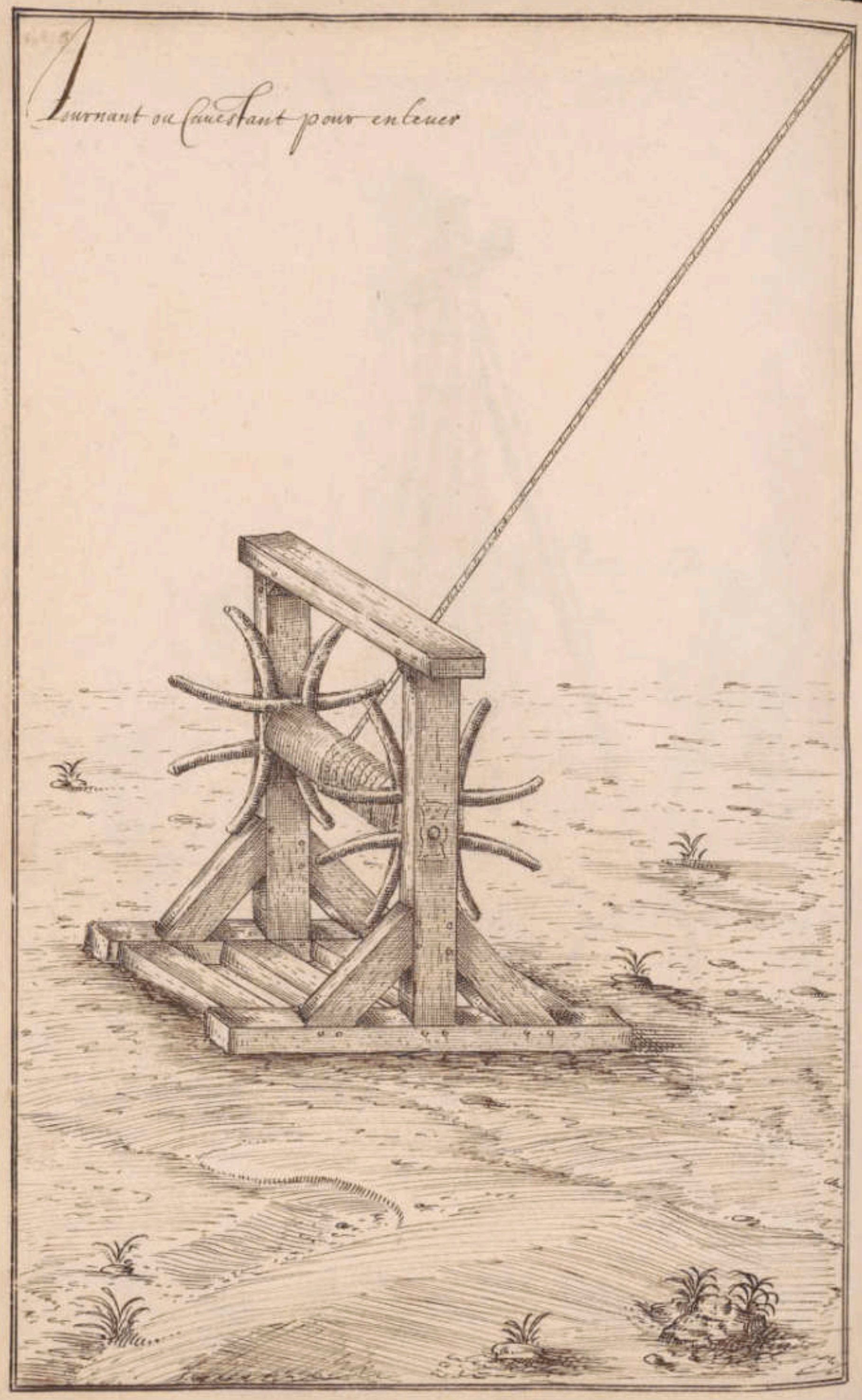


Maye commune de guoy on s'en a seruy a l'estoupade d'Amess.

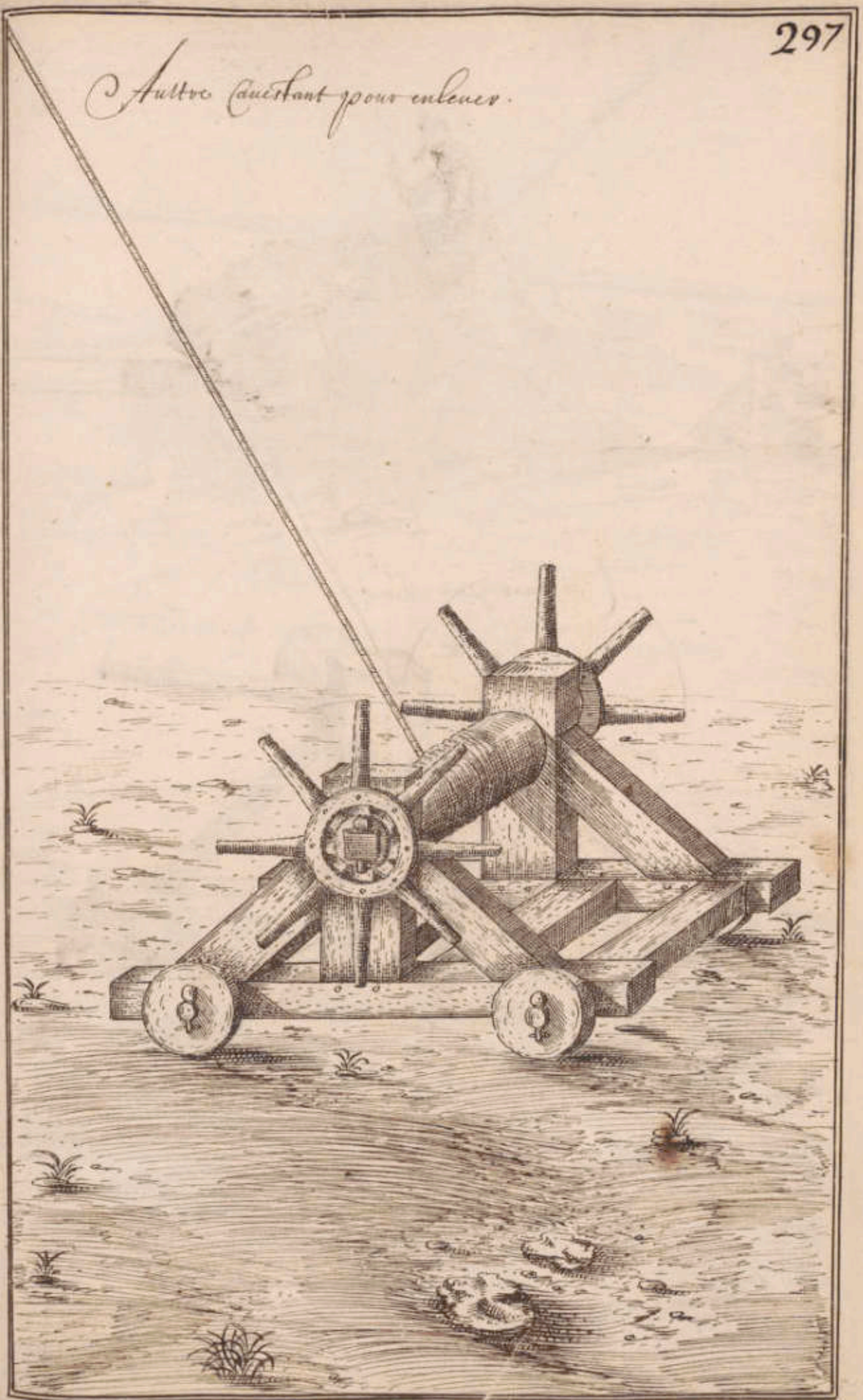


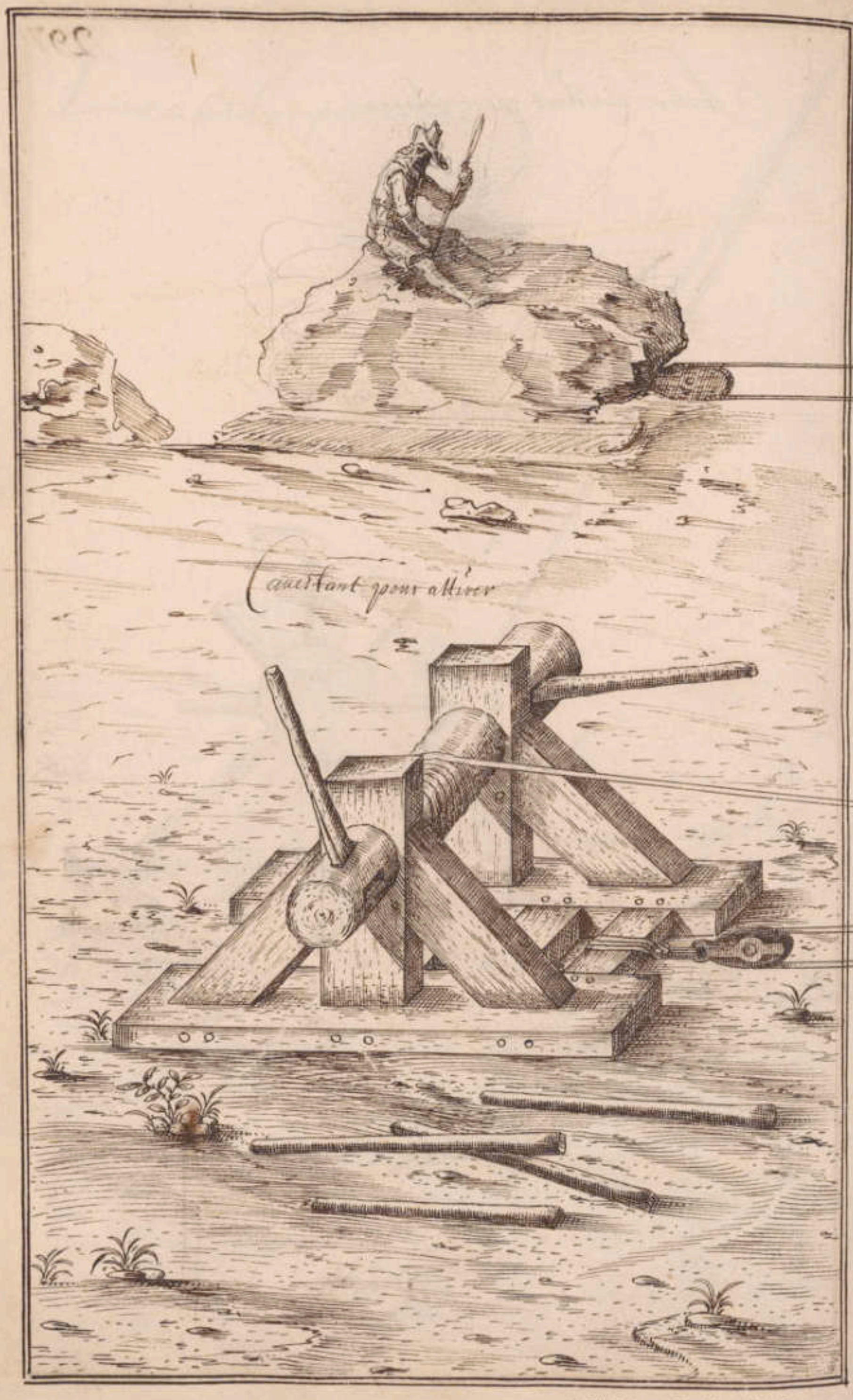
Haye a trois Roulleaux fort bonne et de grande effet.





Autre Cauestant pour enleuer.

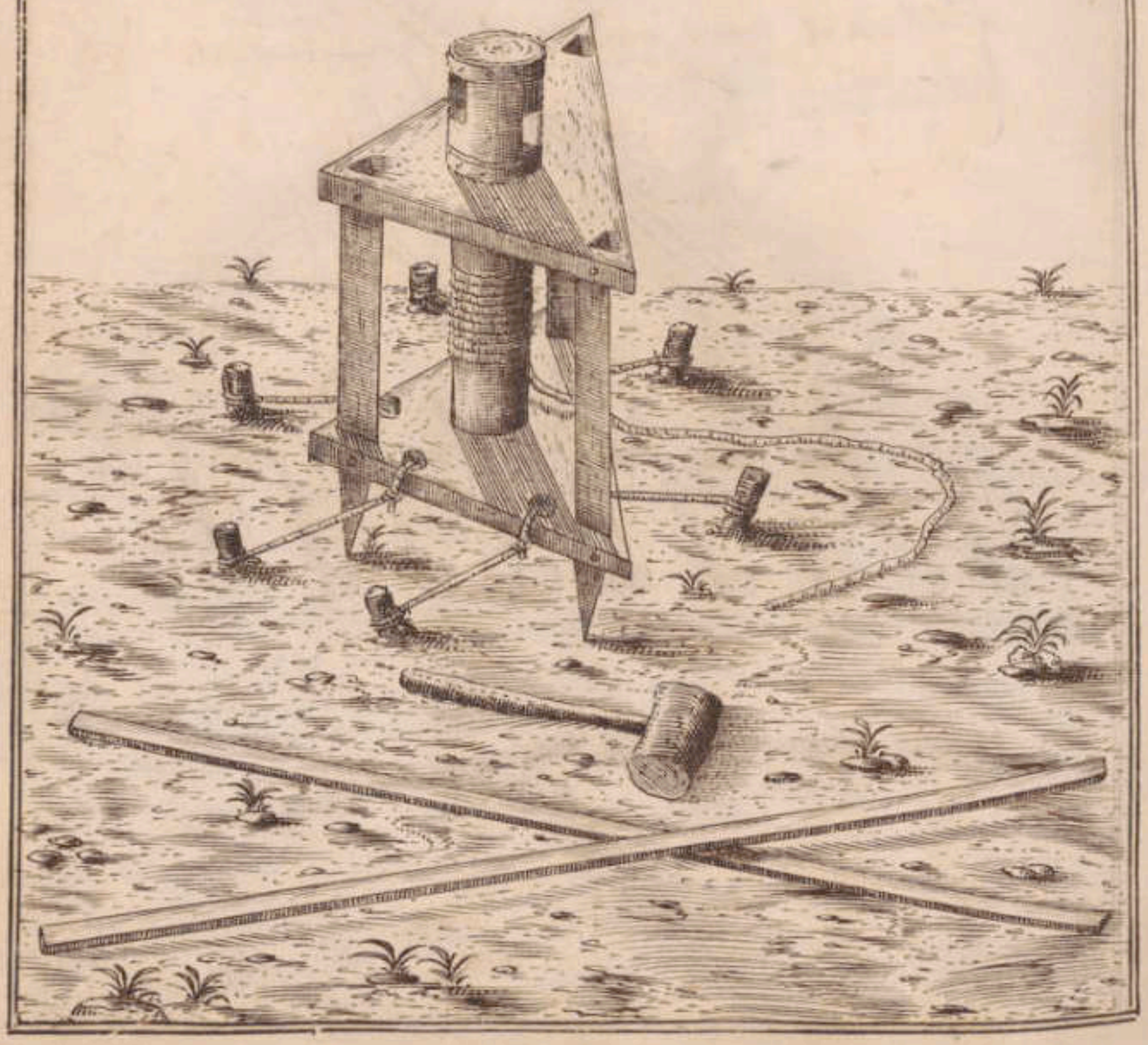




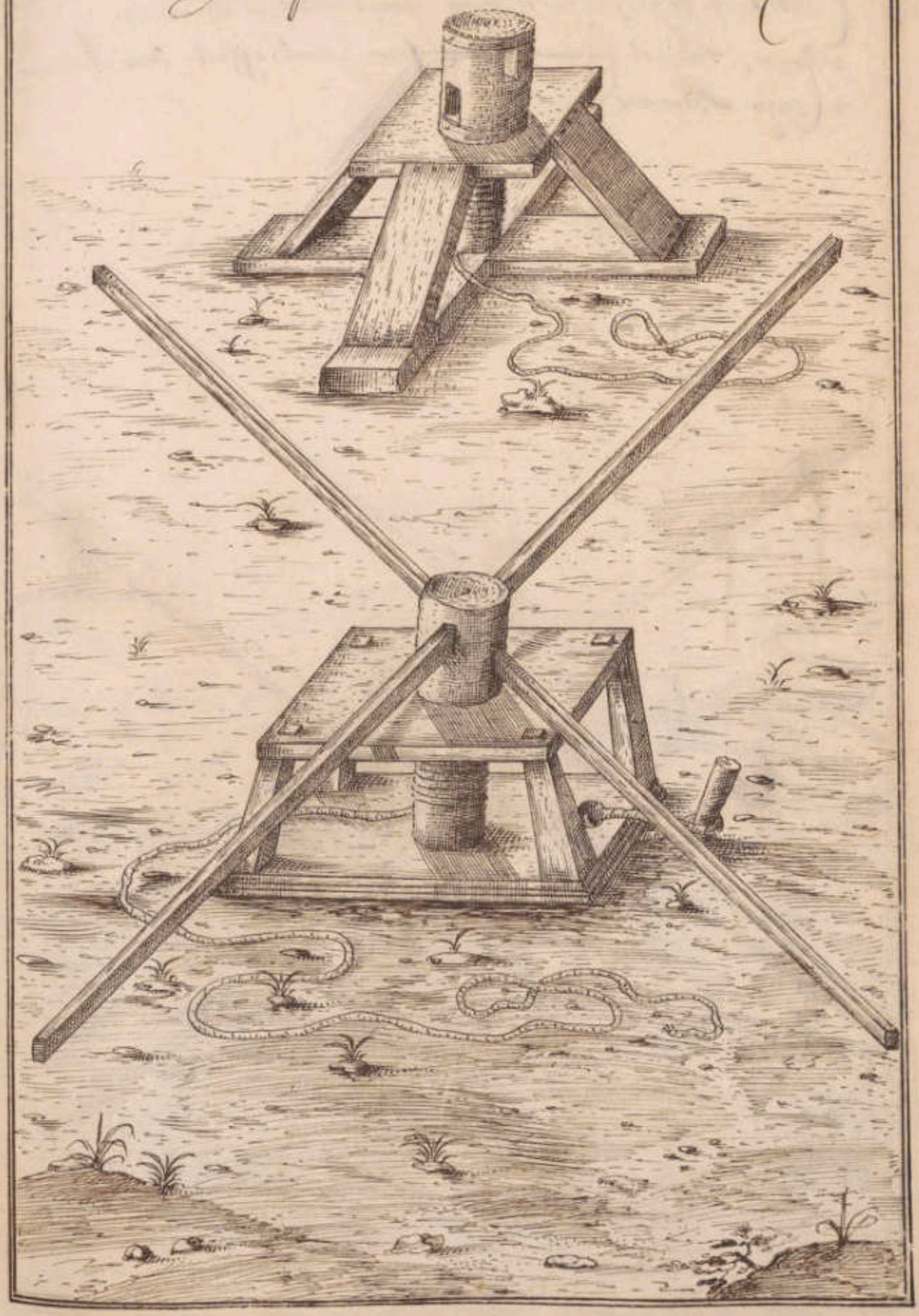
Cauestant

Rouleaux et longues poutres de Bois, pour conduire
le fardeau.

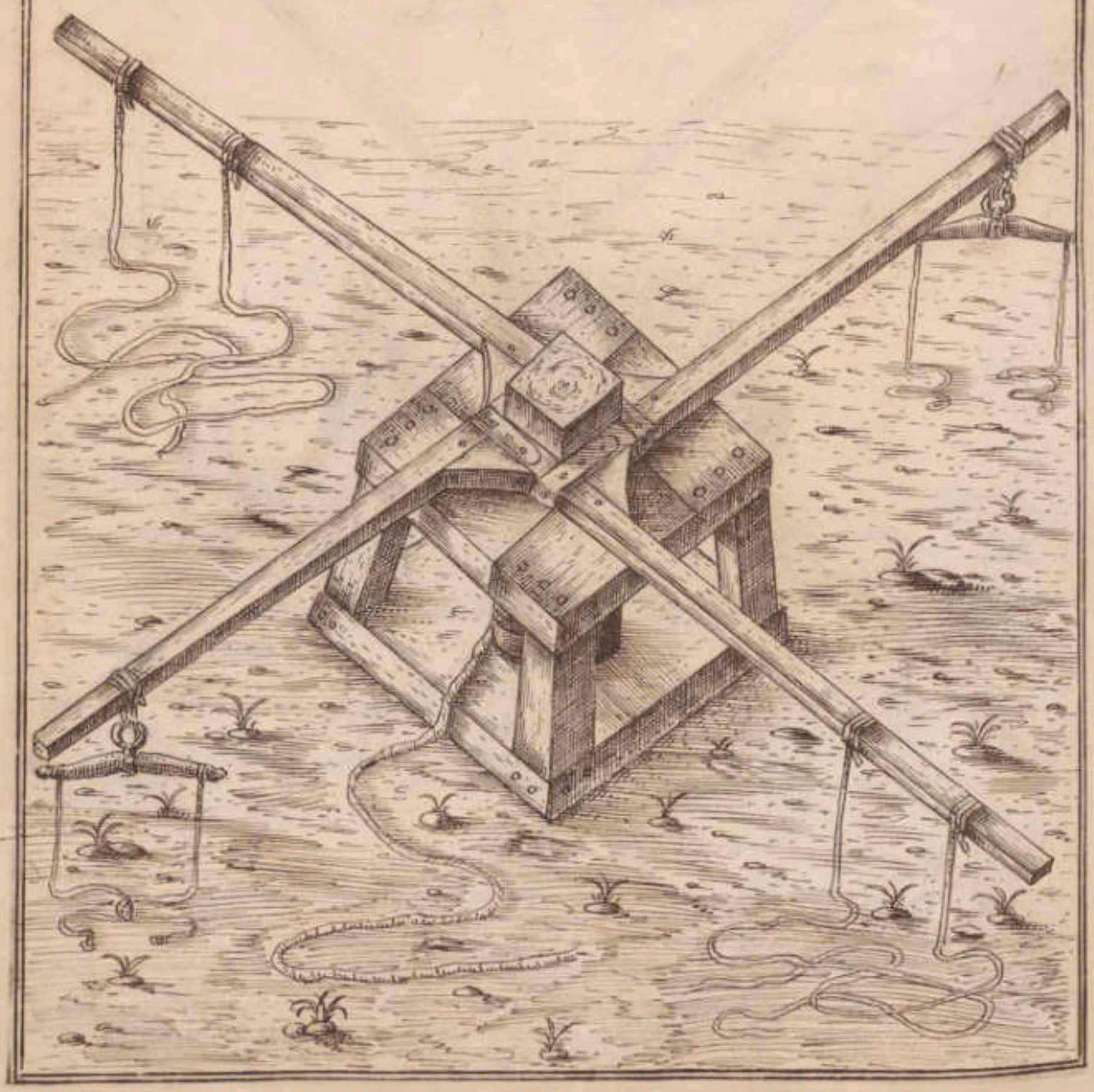
Cuestant triangle de quoy on se seruoit sur la digue de Comte de Buslguoy deuant Ostende



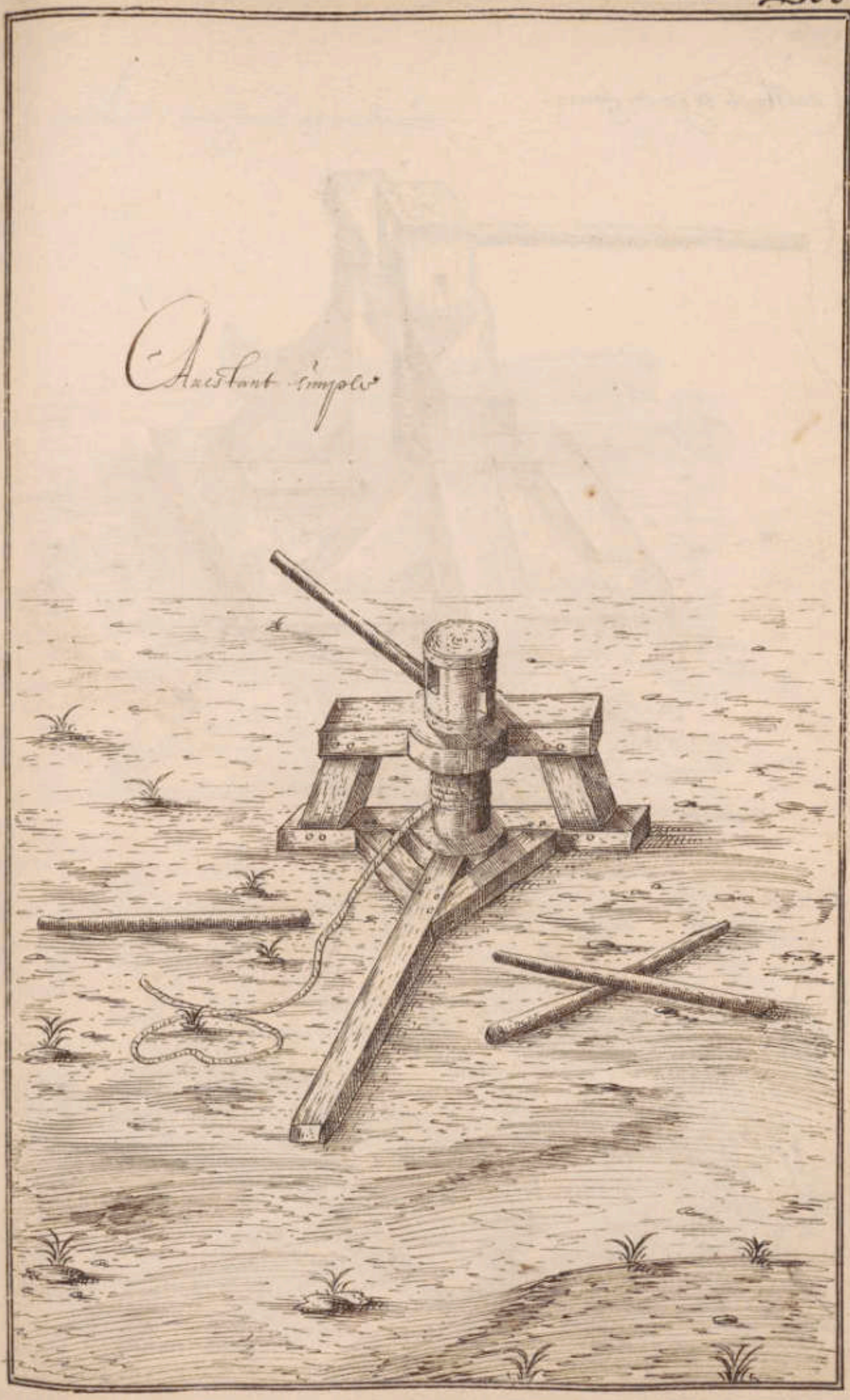
Cauestant de guy L'on se sert ordinairement à Paris, Pour attirer des grosses pierres ou autres fardeaux. sur la Riuiere

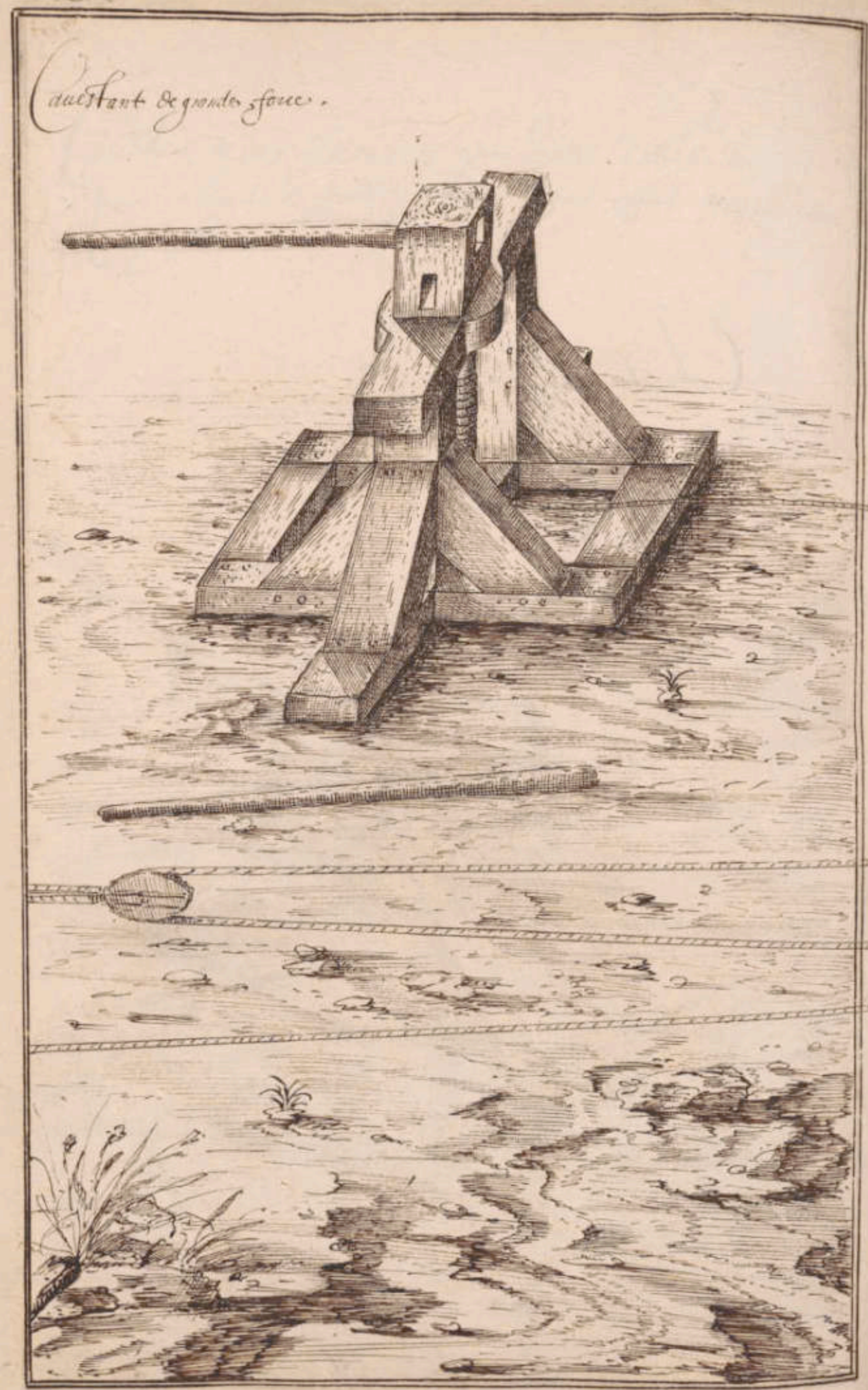


Cauestant de quoy l'on se seruy pour dresser la Piramide a Rome, Auquel se faut pour faire grand effort deux chenaux et seize Homnes

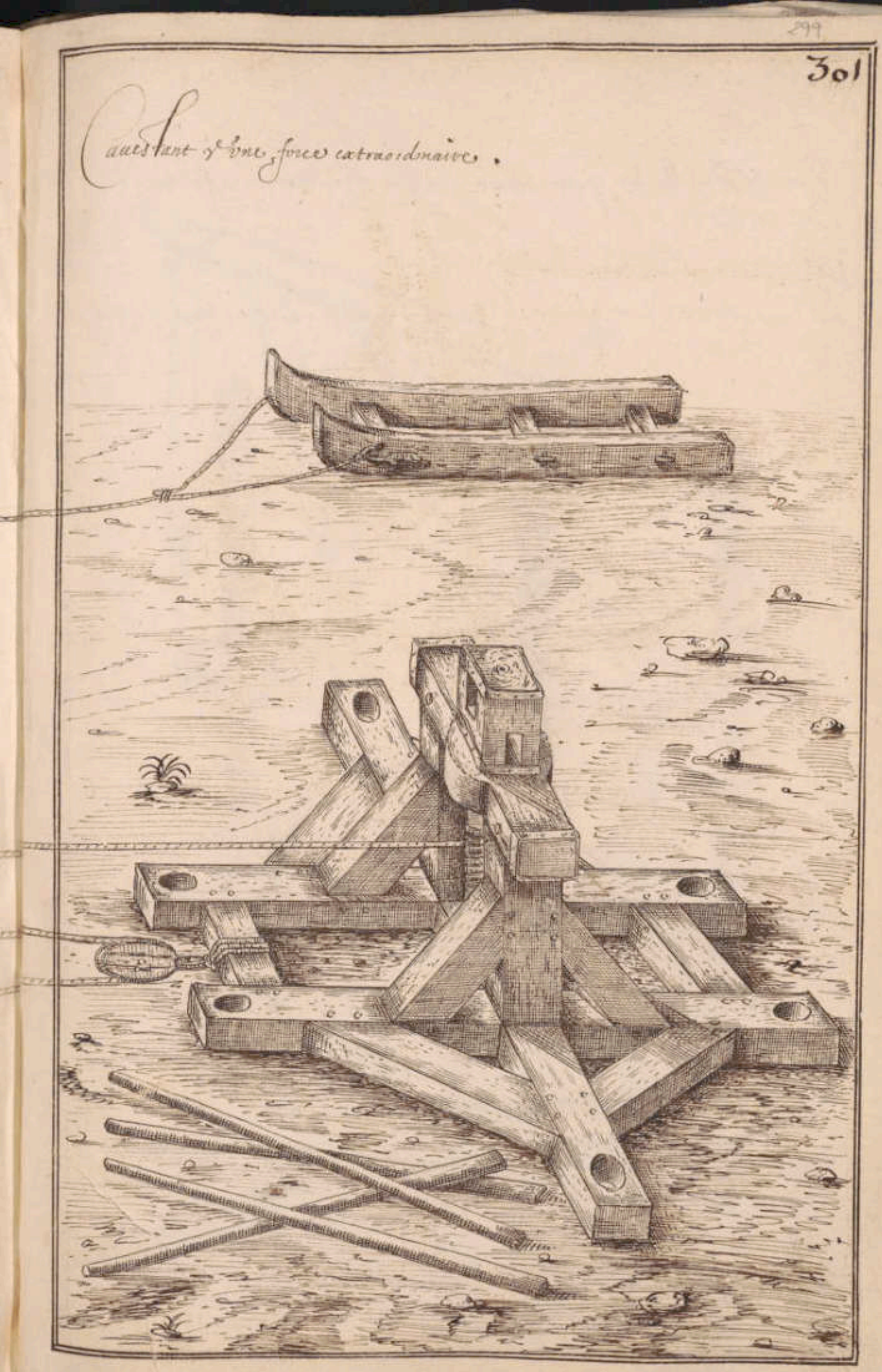


Axestant simple





Cauestant y une force extraordinaire.



Vyes de Bois double pour enlever quelque Bastiment ou fardeau telle que ce soit.

A. Vys de Bois pour tourner et remuer de maniere cependant qu'on la Colgentre