

18th Century Material Culture: Ordnance



Ordnance

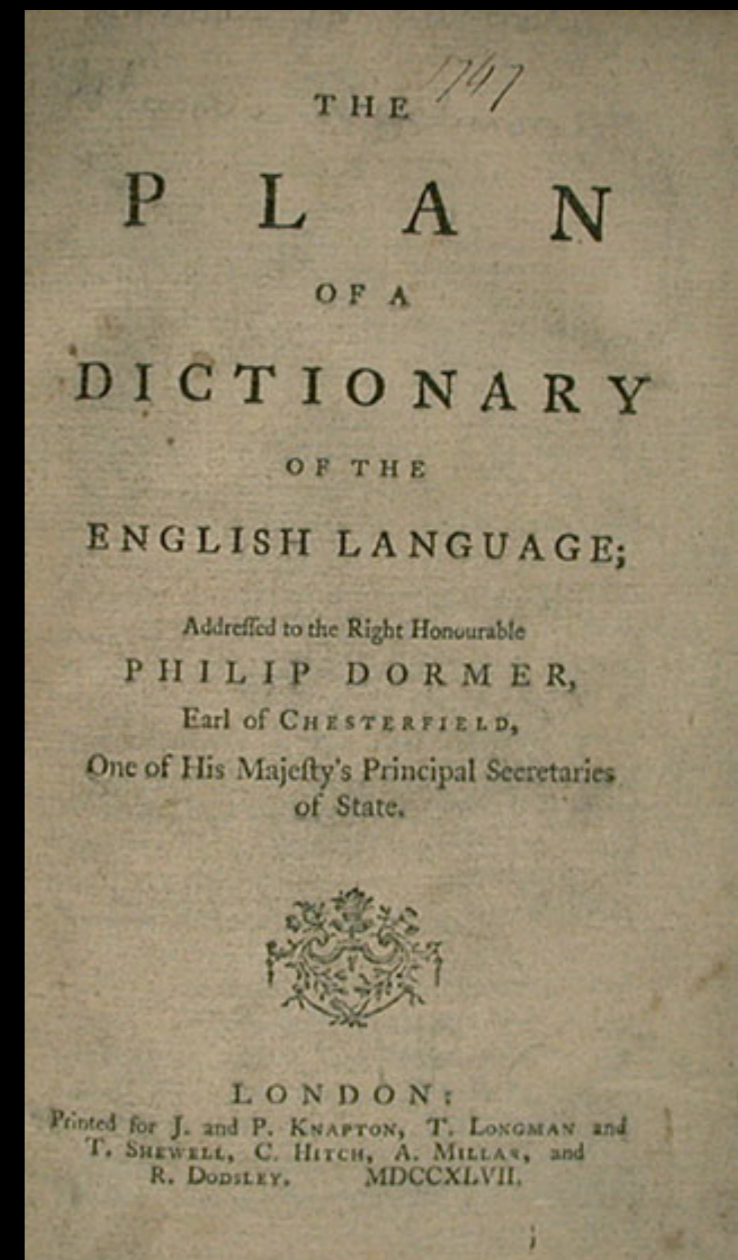
“Ordnance is the most accurate and acceptable generic term which embraces all those weapons of war which use an explosive charge to propel a missile in the direction of the enemy, and which are larger than those which can be used as personal arms”

Hughes, B.P.

1969 *British Smooth-Bore Artillery: the Muzzle-Loading Artillery of the 18th and 19th Centuries.*
Arms and Armour Press, London.

Ordnance

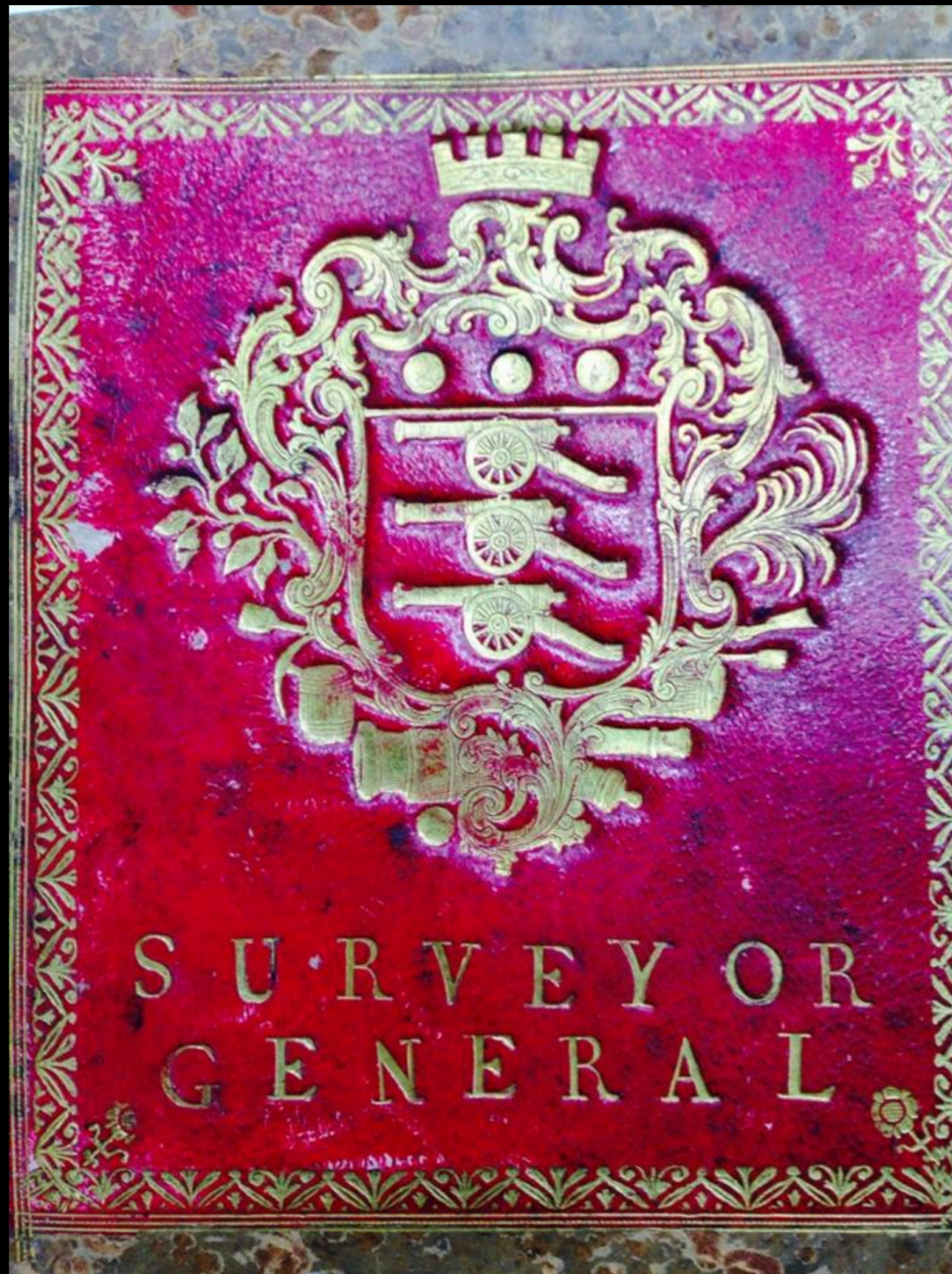
ORDNANCE, ȧ'rd-néns. f. ~~Cannon~~, great
guns.



The British Board of Ordnance



A Meeting of the Board of Ordnance
by Paul Sandby
(National Galleries of Scotland)



Coat of Arms - Surveyor General of His Majesty's Board of Ordnance
Journals of Proceedings of the Board of Ordnance
(National Archives, Kew UK - Photograph Courtesy Marshall Sheetz)

151 (375)

15 Feb 1777

Allowed 21 April 1777
 6351 To John Tappin the sum of Tenty four pound
 ten shillings & two pence for the undermentioned
 Delivered at the Tower of Warrant 27 Feb 1776 & Certificate

	32 por ^{ts} 140	} at 5 ^d		7. 3. 4
	24 — 204			
Sponges	18 — 129	} at 4 ^d 1		10. 16. 4 1/2
	12 — 256			
	9 — 192			
	6 — 196	} at 3 ^d 1/2		3. 6. 2 1/2
	4 — 31			
				.
Hammers	32 — 109	} at 5 ^d		5. 10
	24 — 133			
Hammers	18 — 29	} at 4 ^d 1		6. 4. 6
	12 — 121			
	9 — 182			
	6 — 184	} at 3 ^d 1/2		4. 2. 10.
	4 — 61			
3 — 39				
Tampers for Guns	42 por ^{ts} 799	} at 12/6 @ 100		4. 13. 3.
	32 — 667			
	24 — 534	} at 10/6 @ 100		6. 7.
	18 — 672			
	12 — 667	} at 9/6 @ 100		4. 17. 9.
	9 — 362			
6 — 393	} at 9/6 @ 100		1. 15. 4 1/4	
3 — 108				} at 8/6 @ 100
				54. 10. 2 1/4

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 (National Archives, Kew UK - Photograph Courtesy Marshall Sheetz)

80) Allowed th 15 August 1776. th 28, Dec^r 1775.
 4727 To Eliz^d & W^m Benford the sum of Five hundred
 fifty six pounds eighteen shillings & five pence
 for the coats & underment for the Royal Regiment of Artillery
 Warrant 29th March 1776 Certificate 403.

For	Maltropes	Coats — 11 at £1. 11. 10 ea	17. 10. 2
		Breeches £ 10 at 8/ each	4
	Drummers	Coats — 2 at £1. 17. 6 ea	3 15 -
		Breeches £ 2 at 8/ ea	" 16 -
Invailed	Blue fore parts for Waistcoats with materials for Drummers	2 at 6/9 —	" 13. 6.
		Belts for D ^o — 2 at 3/10 1/2 ea	" 7 9.
	Boas for Waistcoats & Linings & Thread	64 at 3/	9. 12
	Watch Coats — N. P.	36. at 15/	27
Coats Waistcoats & Breeches	Sergiants Corporals Bombardiers Gunnery Maltropes	8 at £4. 11. 9	36. 14 ..
		8 at £3. 0. 3	24 2 ..
		16 at £3. 0. 3	48 4 ..
		32 } 124 }	at £2. 9. 0 — 382 4 ..
	Serjiant Sashes	8 at 5/	2
			556 78 5.

Allowed D^o ^{6 May 1776.}
 4656 To Mess^{rs} Harrison Ambrose & Stanley the sum
 of Three hundred thirty three pounds Eleven
 shillings & three pence for the underment
 delivered at Woolwich Warrant 22 May 1776.

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 (National Archives, Kew UK - Photograph Courtesy Marshall Sheetz)

11 Oct. 1776.

Double Bridle Musquet Locks } 1191 at 6/6 ea - 387. 1. 6
Engraved & Hardened

Allowed Dec. 30 Sep. 1776

5521 To D^o the sum of Two hundred seventy pounds for the underment^s Delivered at the Small Gun office in the Tower of Warrand 11 Oct^r 1776 and Certificate Viz^t

Short Land Musquet Barrels } 720 at 7/6 ea - 270 -
best Sort

allowed 3^d Dec^r 1776. 30 Nov^r 1775.

5484 To James Morris the sum of Three hundred twenty eight pounds, one shilling & nine pence for the underment^s Delivered at the Royal Laboratory at Woolwich Warrant 8th August 1775 Certificate Viz^t

Feather of Lead, Deal
In. Elm End wrought.

Boxes for	24 lb ^s Round Shot	400	12. 9. 11.	=	5130. 6. 8.	
	3	200	8. 6. 8.	=	1711. 1. 4	
Packings	8 In Howitzes	300	10. 5. 2.	=	3129. 2. 0	
	5 1/2	250	12. 0. 2.	=	3003. 5. 8	
					12974. 9. 8 2/3	270. 5. 11 1/2
Packing.	5 feet long	50	44. 6. 8.	=	2227. 9. 4	
	4 feet rough	20	36. 10. 8.	=	757. 9. 4	
Cases	3	20	29. 10. 8.	=	597. 9. 4.	
					3563. 4. 0 at 5 1/2	51. 19. 3 1/2
Trousels. 36. Contain ^g	3 1/2 In. Solid Fir		71. 9. 0	at 2 1/2	177. 1. 1 1/2	
	Plained & framed					
	2 1/2 In. Sup. of 1/2	96	10. 10. 0	at 10	960. 0. 0	4. 4. 0
	Deal 7 In. Sup. w ^o					
	1 1/2 In Deal					11. 6 1/2
						328. 1. 9

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allowed 12 June 1776. 30th March 1776 26 (27)
 4081 To Jane Mayor the Sum of Forty four pounds
 ten shillings for the underment^d delivered at
 the Tower of Warrant D^o March 1776. Certificate
 1038

	Steel plates	300		
	Knives	300		
	Side pieces	300	} 3. 1. 5. } L 20	
	Thumb pieces	300		
	Triggers plates	300	} at 1/6 ^d } 30 15	
	Tail pipes	300		
	Long pipes	300	at 6 ^d ea	7 10
	Short D ^o	600	at 1 1/2 ^d ea	3 15
	Non caps	300	at 2 ^d ea	2 10
				44 10

allowed D^o 22^d Dec^r 1775.
 4082 To Ditto the Sum of Thirteen pounds
 ten shillings & nine pence for the underment^d
 delivered at ^{Tower} Woolwich Warrant D^o March 1776 &
 Certificate L 20
 Long Fore pipes for carbines Steel - 364 at 6^d 9 2 -
 Short Fore pipes for musquets D^o 710 at 1 1/2^d 4 8 9
 13 10 9

allowed D^o 1 Jan^y 1773.
 4084 To Jane Mayor the Sum of Ten pounds five
 shillings & four pence for the underment^d delivered
 at Woolwich Warrant 1 Jan^y 1773 Certificate L 20
 Dutch Brass plate to pattern 1 @ at 1/10^d 10 5 4

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116 18. Allowed 3 June 1776. 31 Dec. 1775.

3948. To John Groves Master Bricklayer to this Office the Sum of One hundred twenty two pounds six shillings nine pence for the Daywork underments by him performed & Materials expended in Repairs to the several Offices Storehouse Dwelling houses & Barracks at the Tower Savoy &c in December Quarter 1775

169 Days of Bricklayers	at 3/6 Day	25-7-0
177 Days of Labourers	at 2/0 Do	17-14-0
236 Loads of Mortar	at 4/0	3-18-8
61 Loads of Coal Ash Mortar	at 5/0	1-5-5
15 Loads of pointing Do	at 1/0	.. 15--
27 Loads of Lime Hair	at 7/0	.. 15-9
8 Loads of fine Do	at 1/0	.. 8--
12 Loads of Windsor Looms	at 10/0	.. 10--
1 Load of Tarris		.. 3--
2525 Grey Stocks	at 24/0	9-0-7
492 paving Bricks	at 32/0	.. 15-8-2
30 Windsor Bricks	at £4.5/0	.. 2-6-
2900 Plain Tiles	at 24/0	3-9-7
69 Pan Tiles	at 19/0	.. 6-2-4
35 Ridge Tiles	at 15/0	.. 3-6-
12 foot Tiles	at 3/0 ea	.. 3--
3-10 Inch Tiles	at 1/2	.. 4-
2 Dozen Pantile Laths	at 2/0	.. 12--
6 Bundles of Heart Laths	at 2/0	.. 2--
1 Bushel of Tyle pins	at 2/0	.. 5-7
1/4 @ 20 - 14 @ 30 Nails		.. 8-9
7 Baskets	at 1/3	.. 2-3
3 Brooms	at 2/0	.. 6--

Allowed 393-

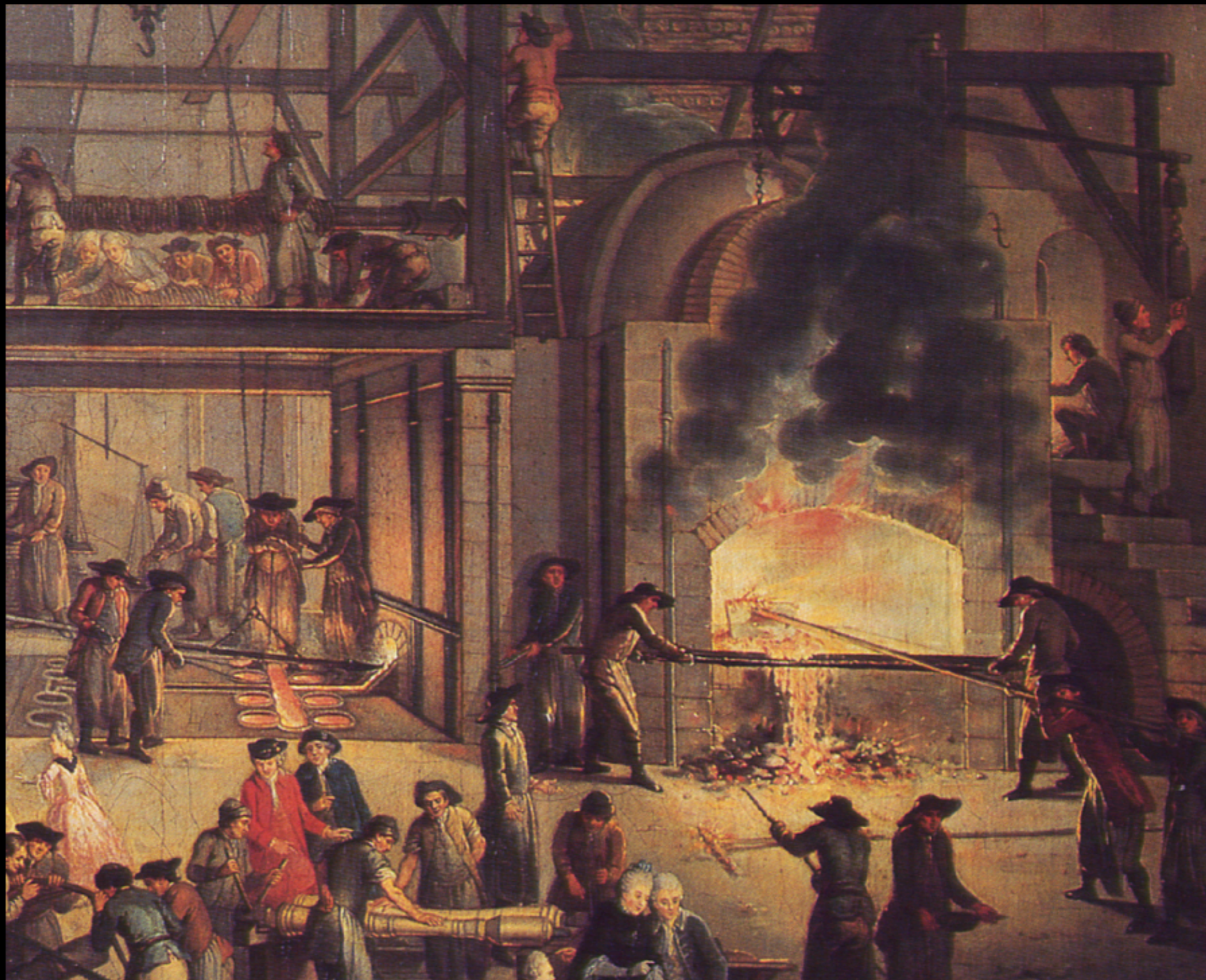
Carried over

Page Entry - Journals of Proceedings of the Board of Ordnance (National Archives, Kew UK - Photograph Courtesy Marshall Sheetz)

Gun Foundries



The Gunfoundry at Douai
by Johann Ernst Heinius c. 1770
(Viscounte Maurice de Castex)



The Gunfoundry at Douai
by Johann Ernst Heinius c. 1770
(Viscounte Maurice de Castex)

The Royal Foundry
at
Woolwich



J. Sandby R.A. Pinxt.

J. Pinner Sculp.

The Royal Foundry, Woolwich.

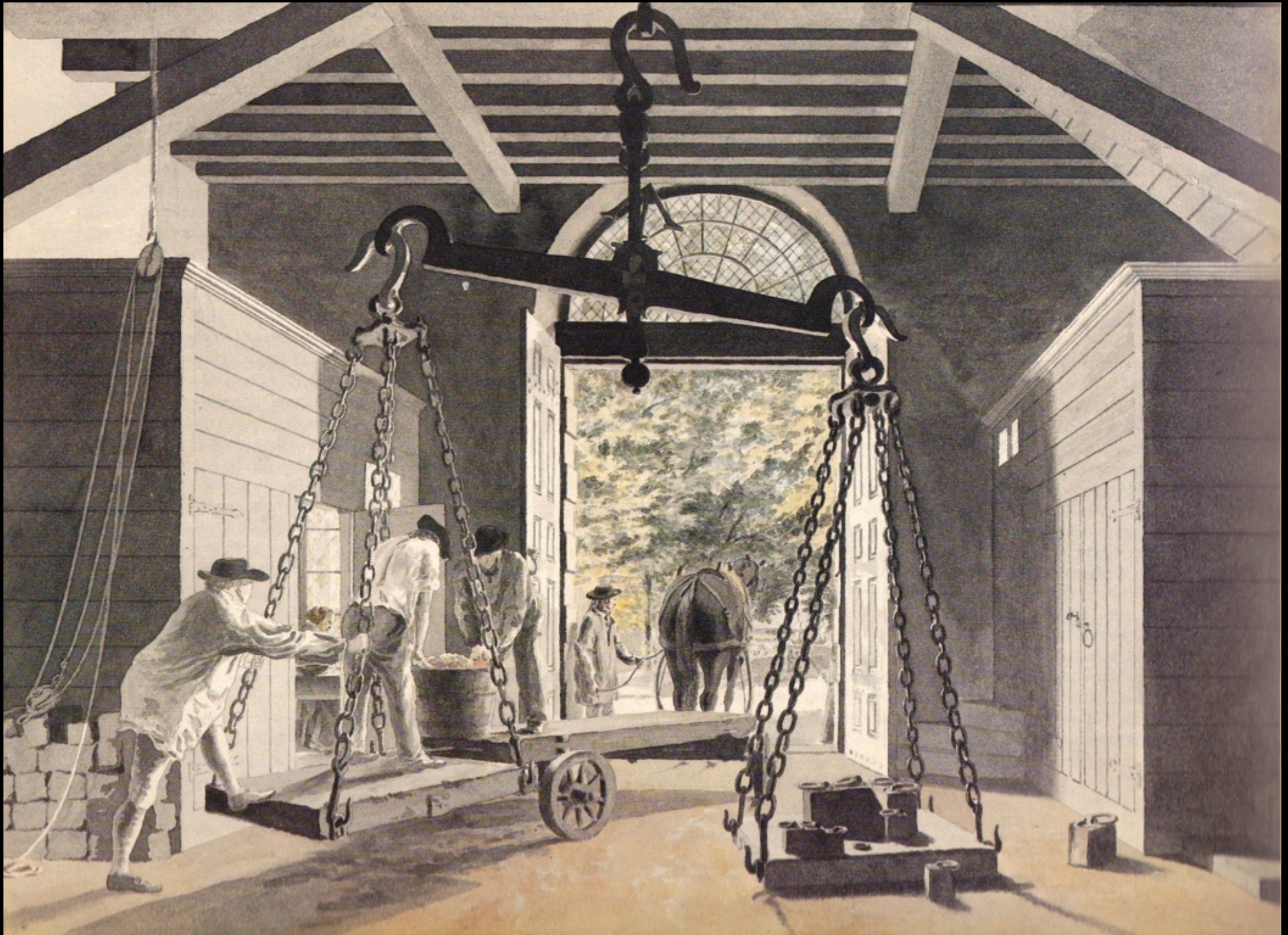
Published as the Act directs, by G. Kearsley at N. 36, in Fleet Street, Dec. 1. 1779.

“The Royal Foundry, Woolwich.”
by Paul Sandby 1779
(The British Museum)

The Royal Foundry at Woolwich

The Unsigned Watercolors Thought to be the Hand of
Pieter Verbruggen, Joint Master Founder

1770 - 1781

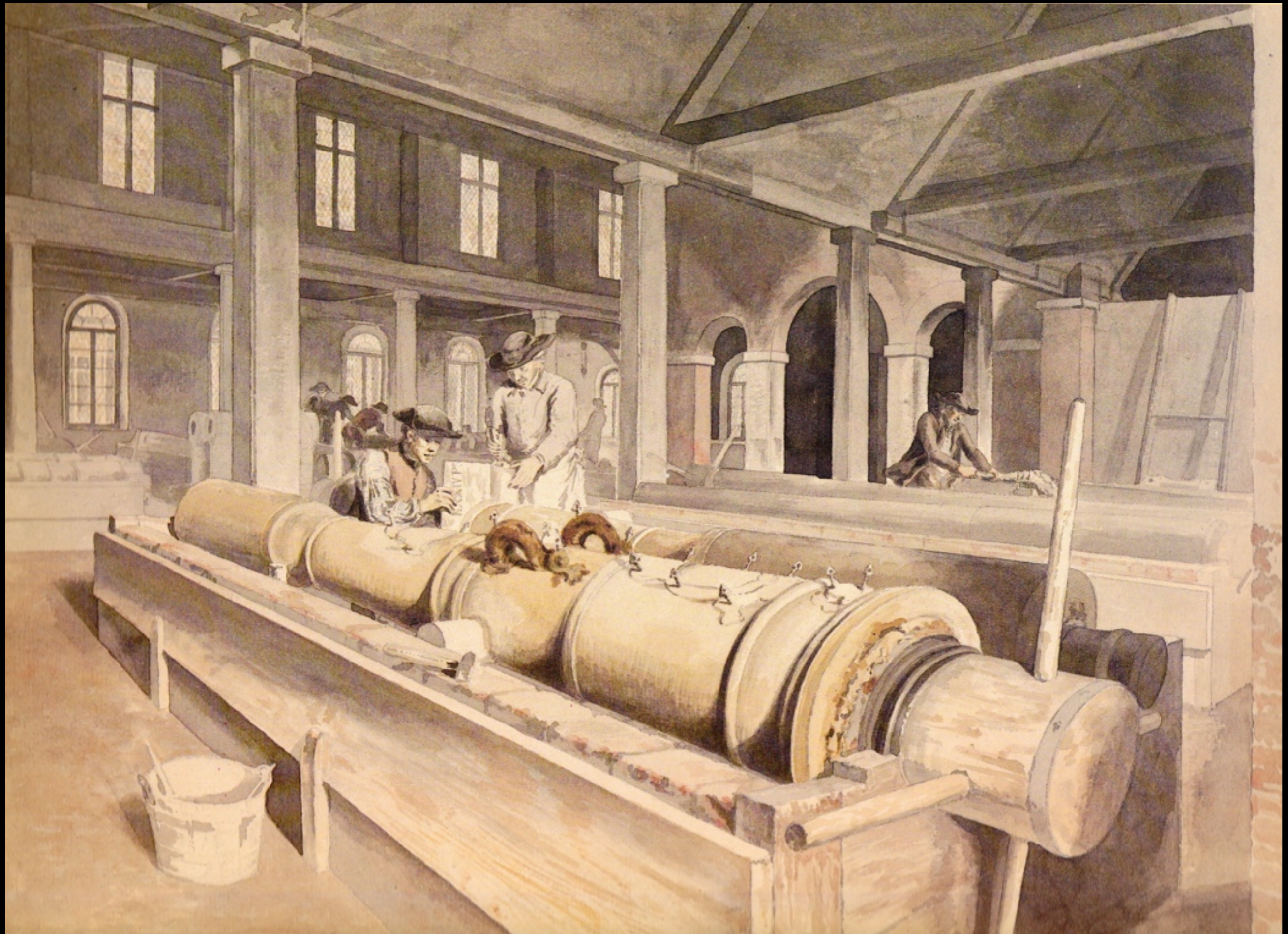












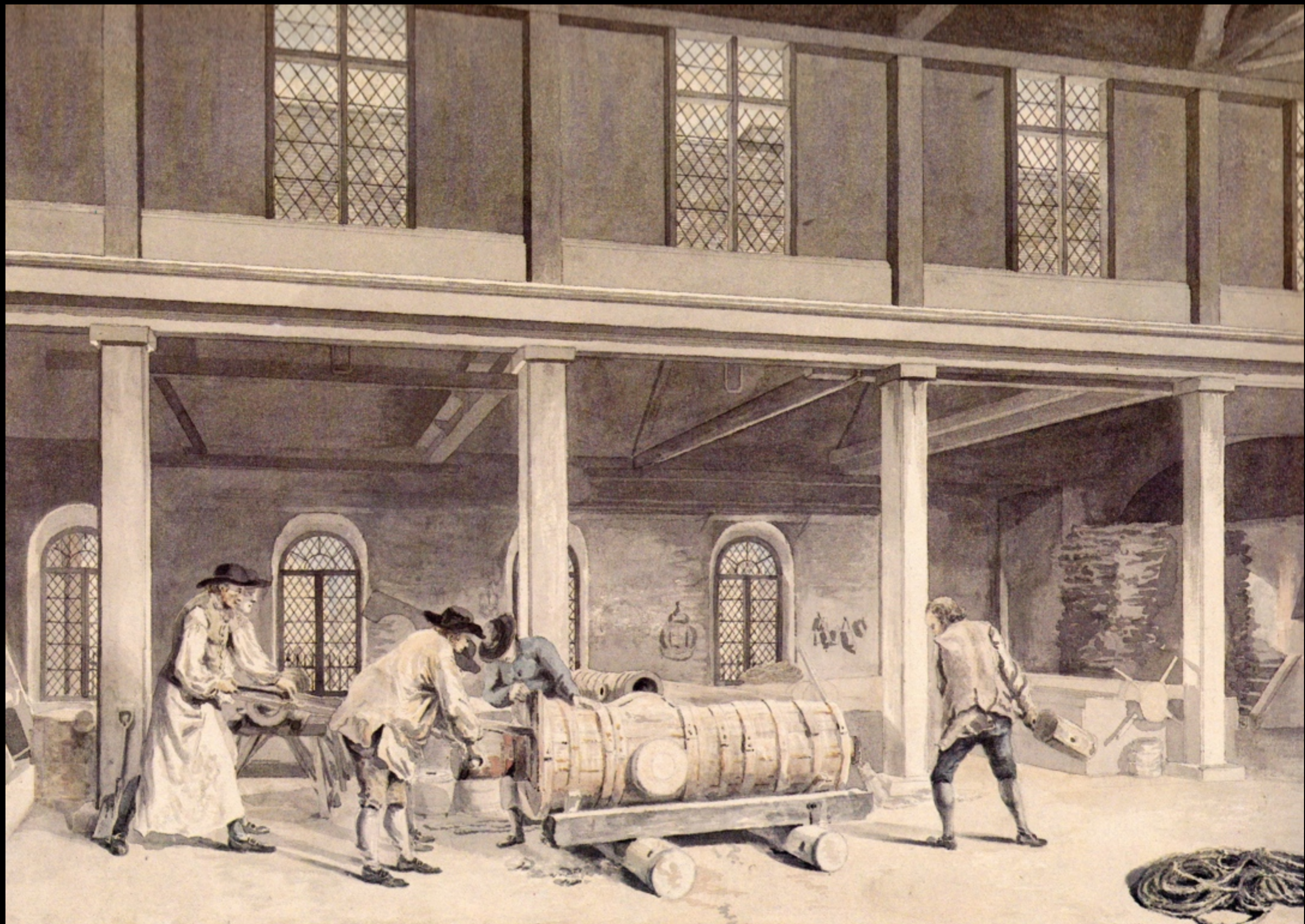










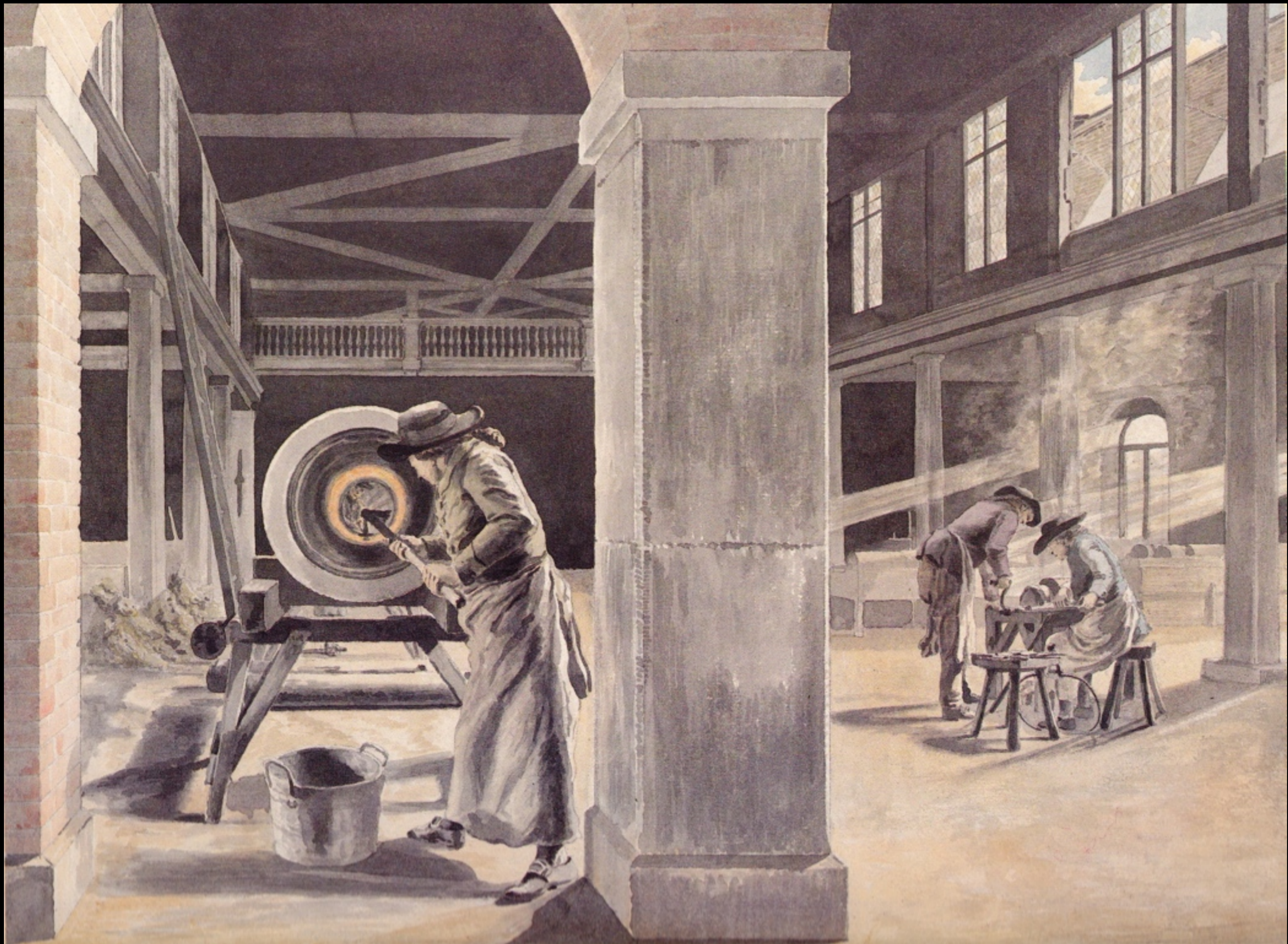






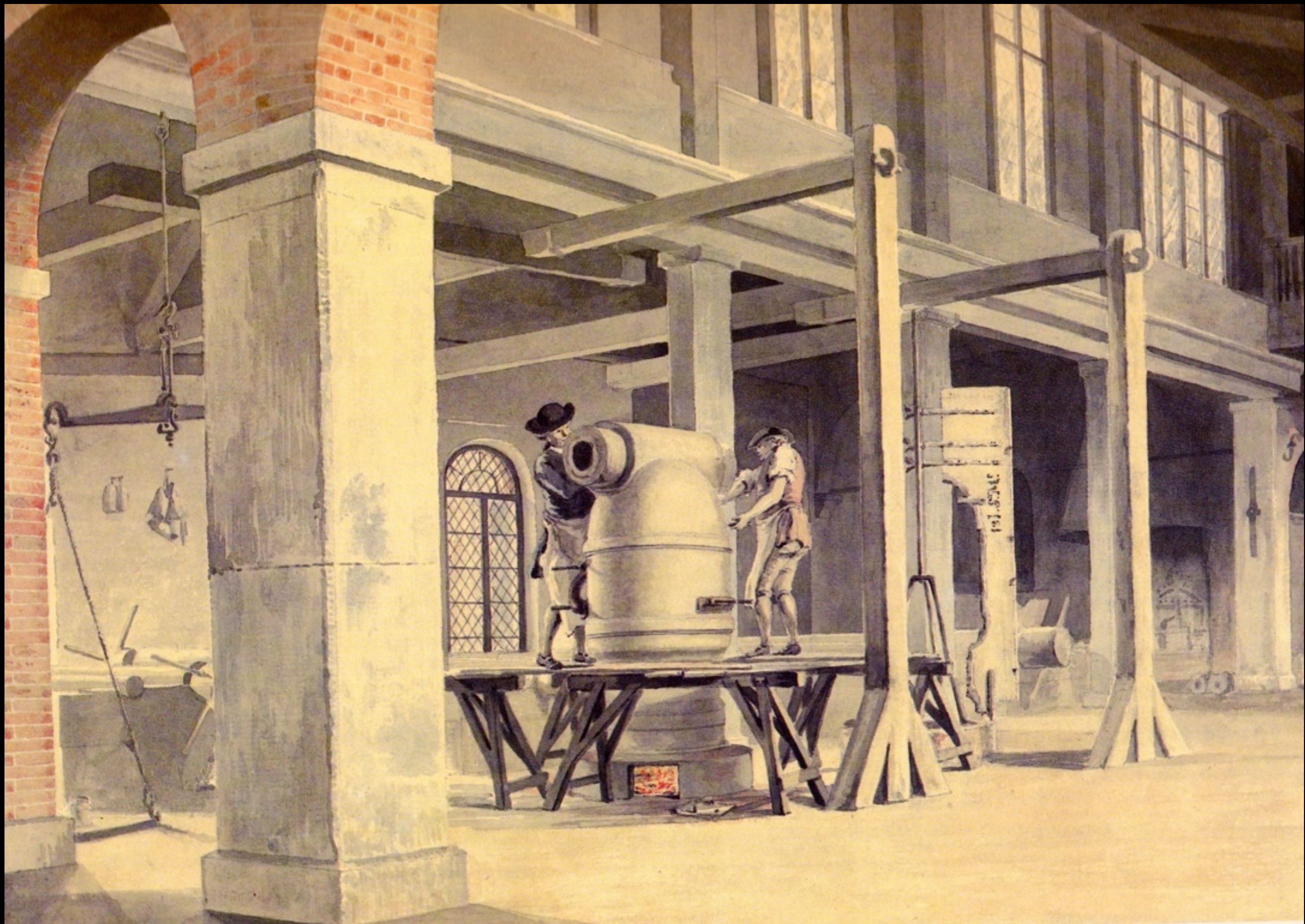




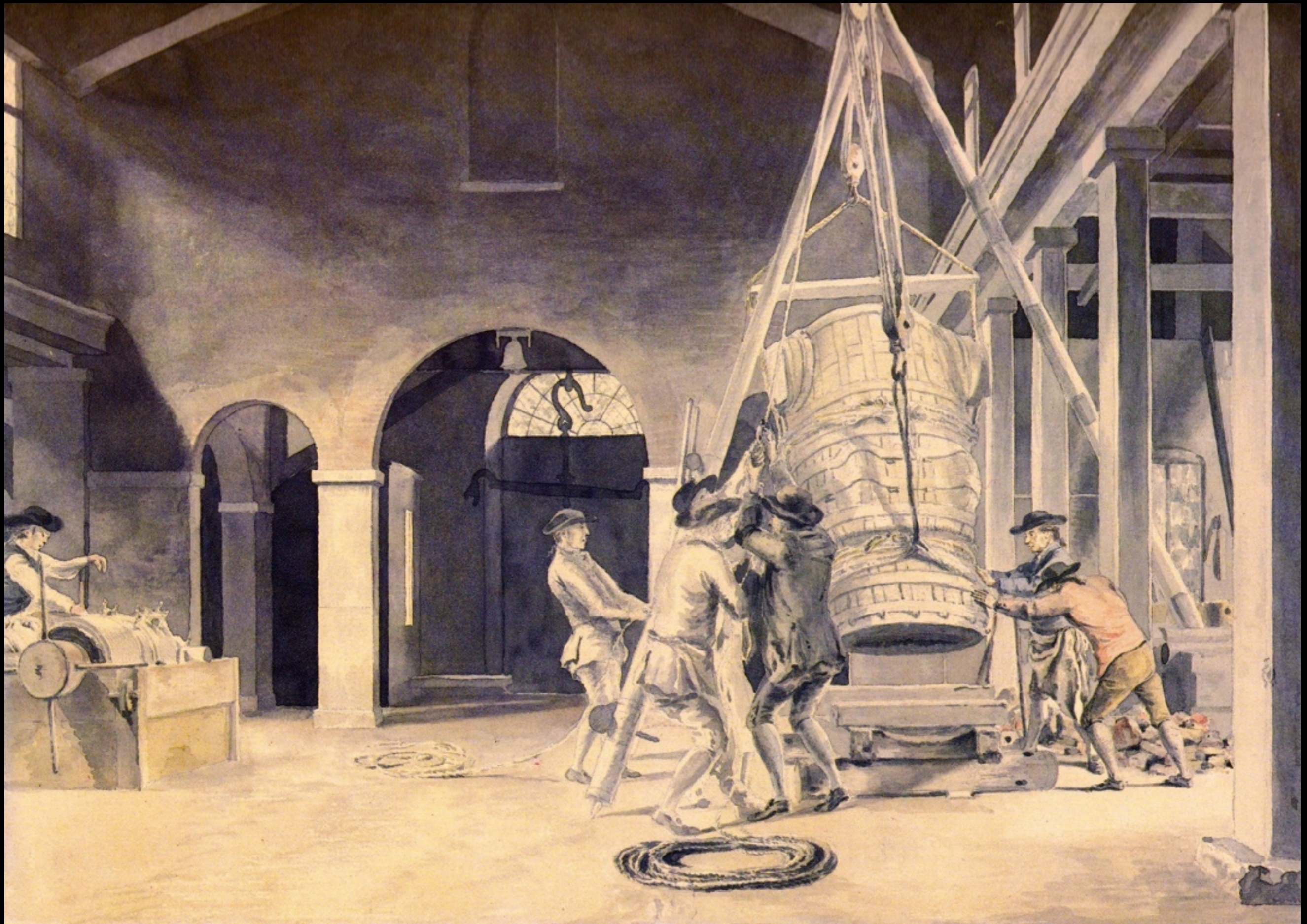


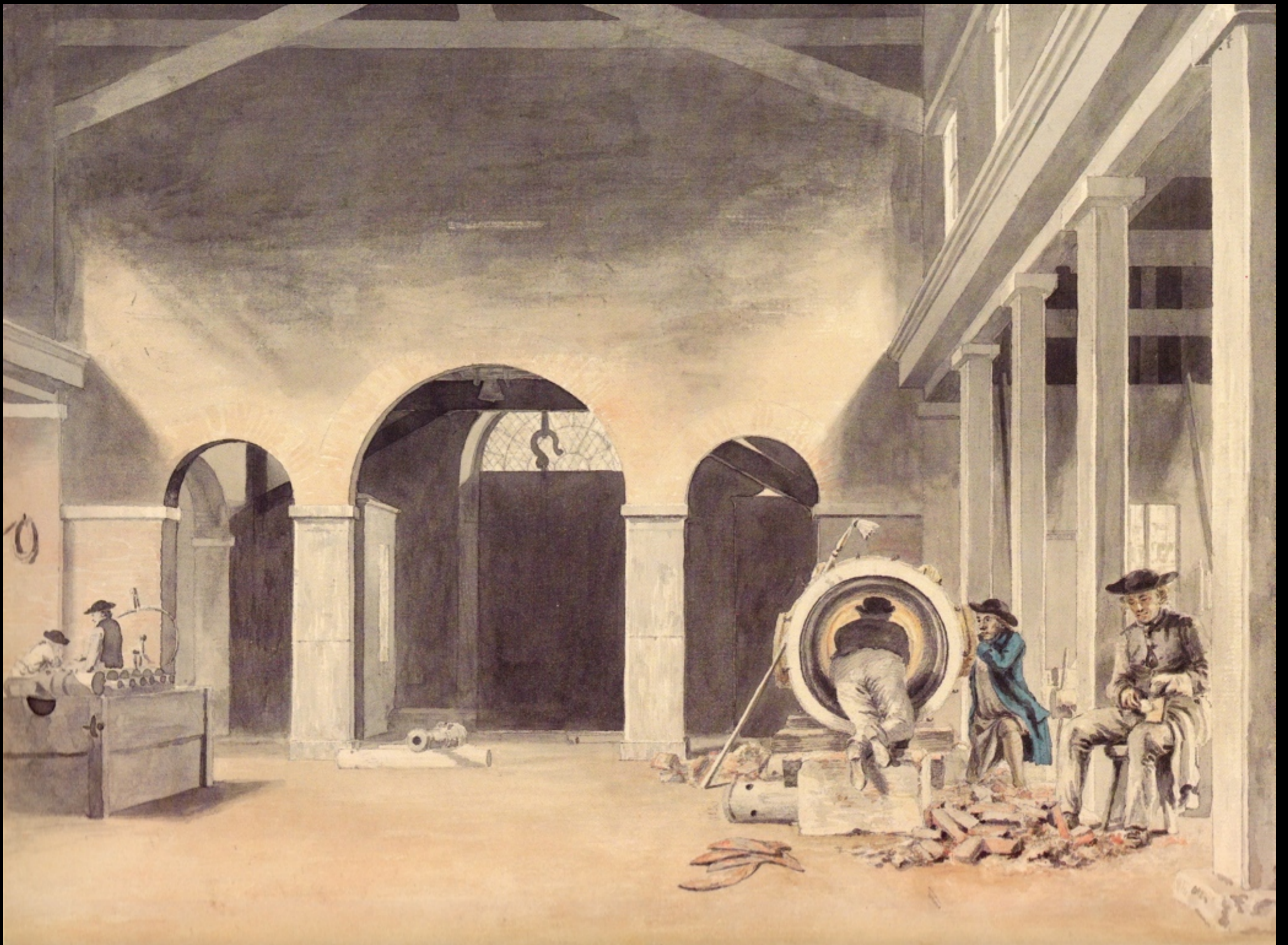










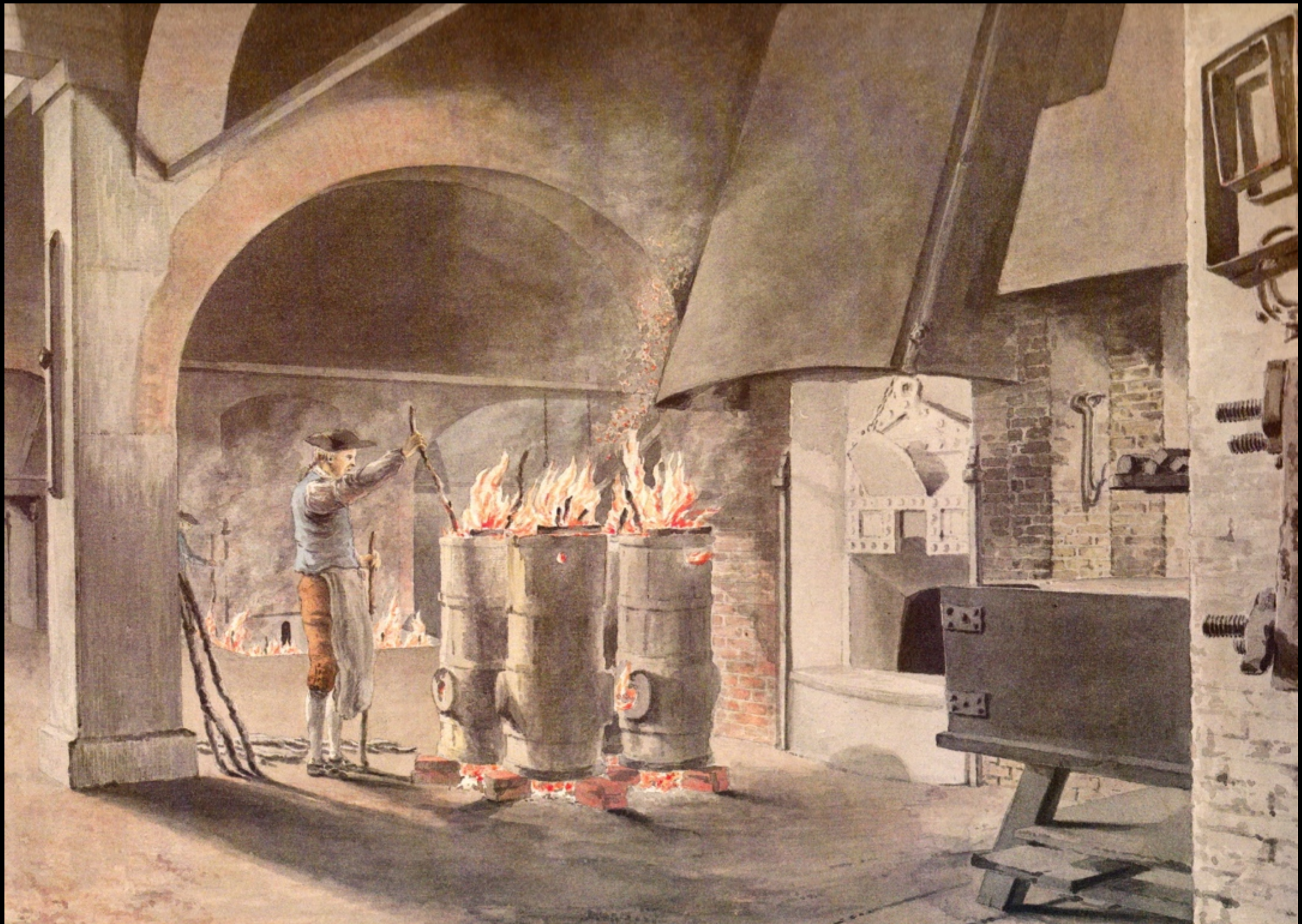




















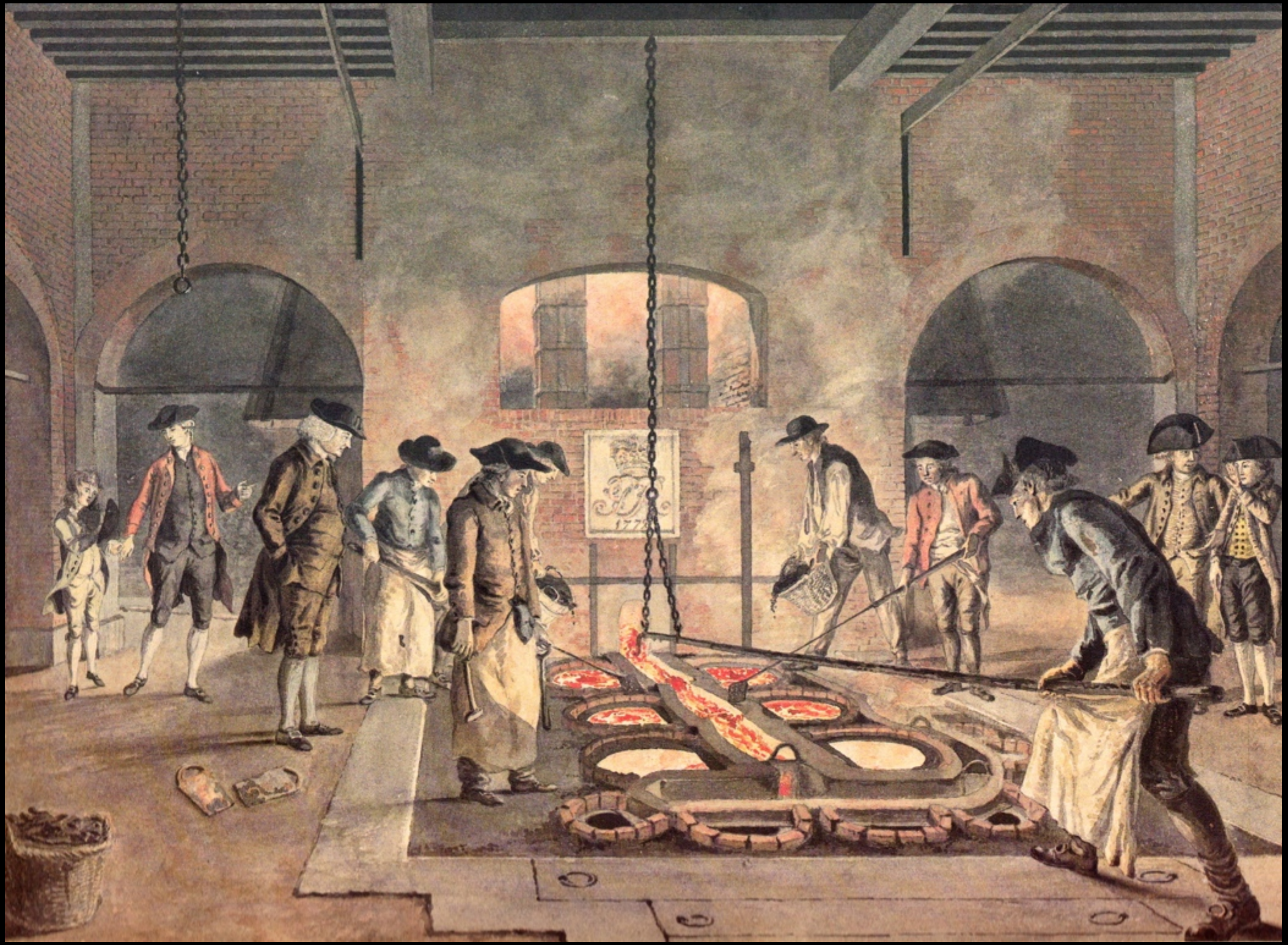




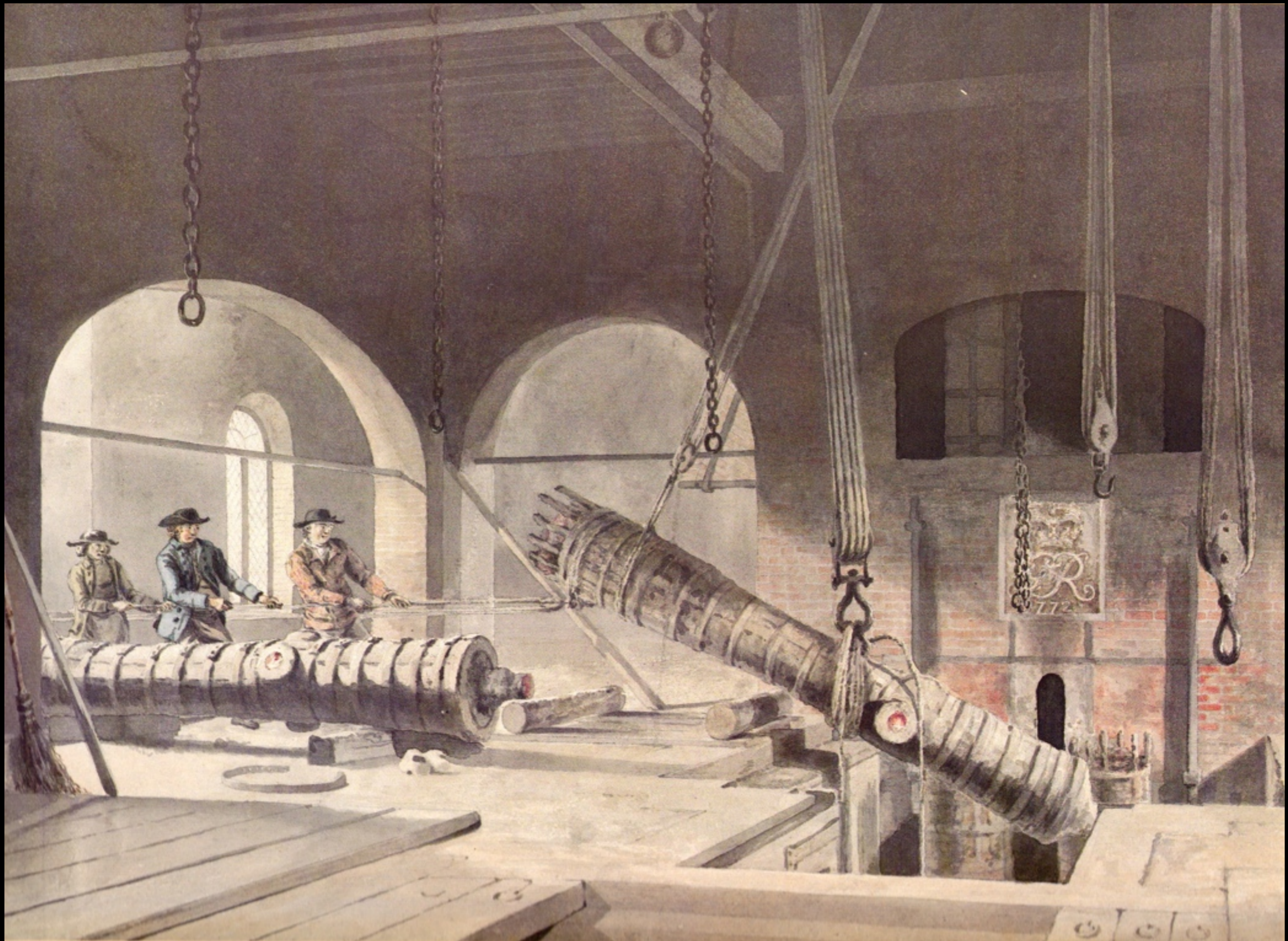








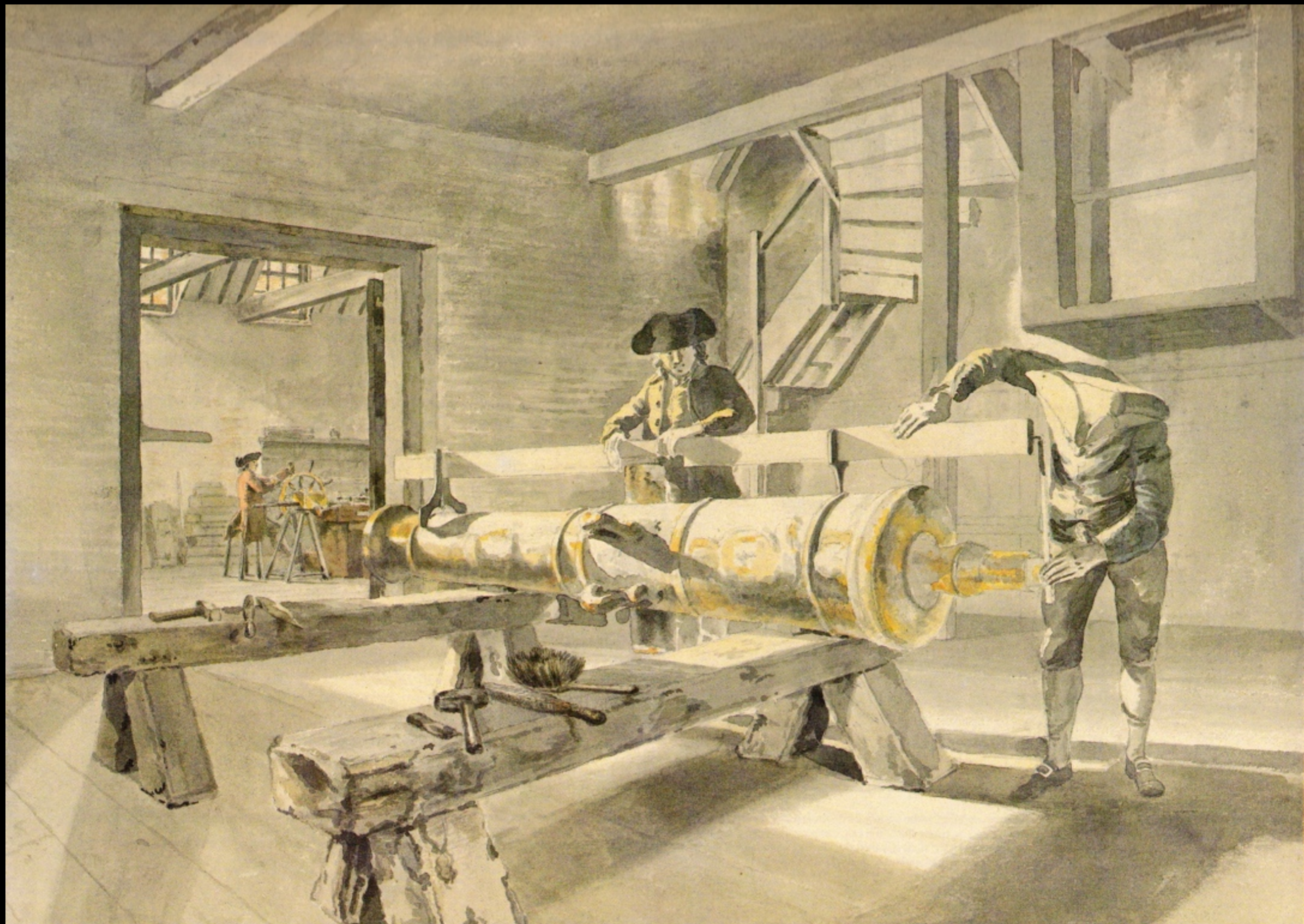




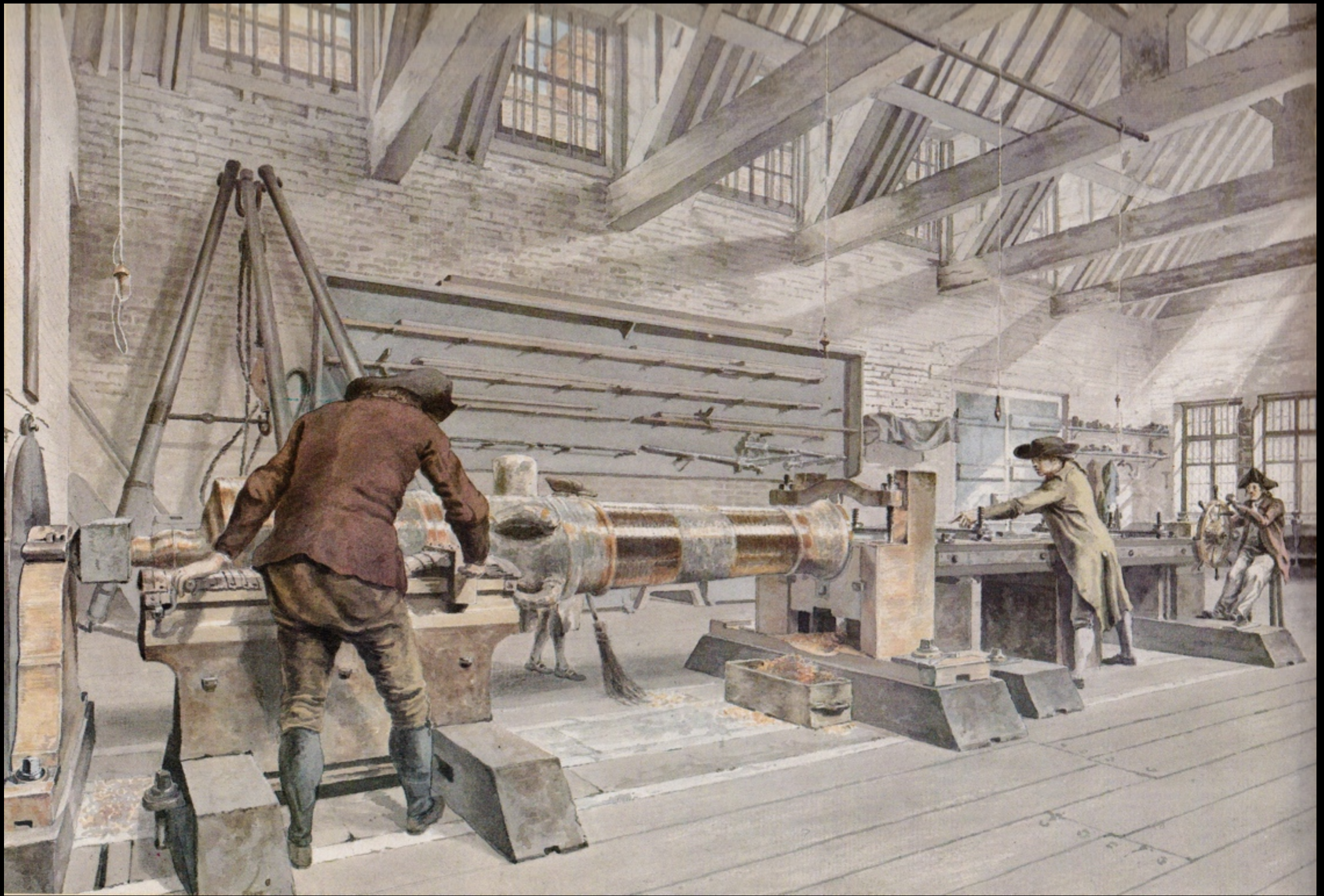






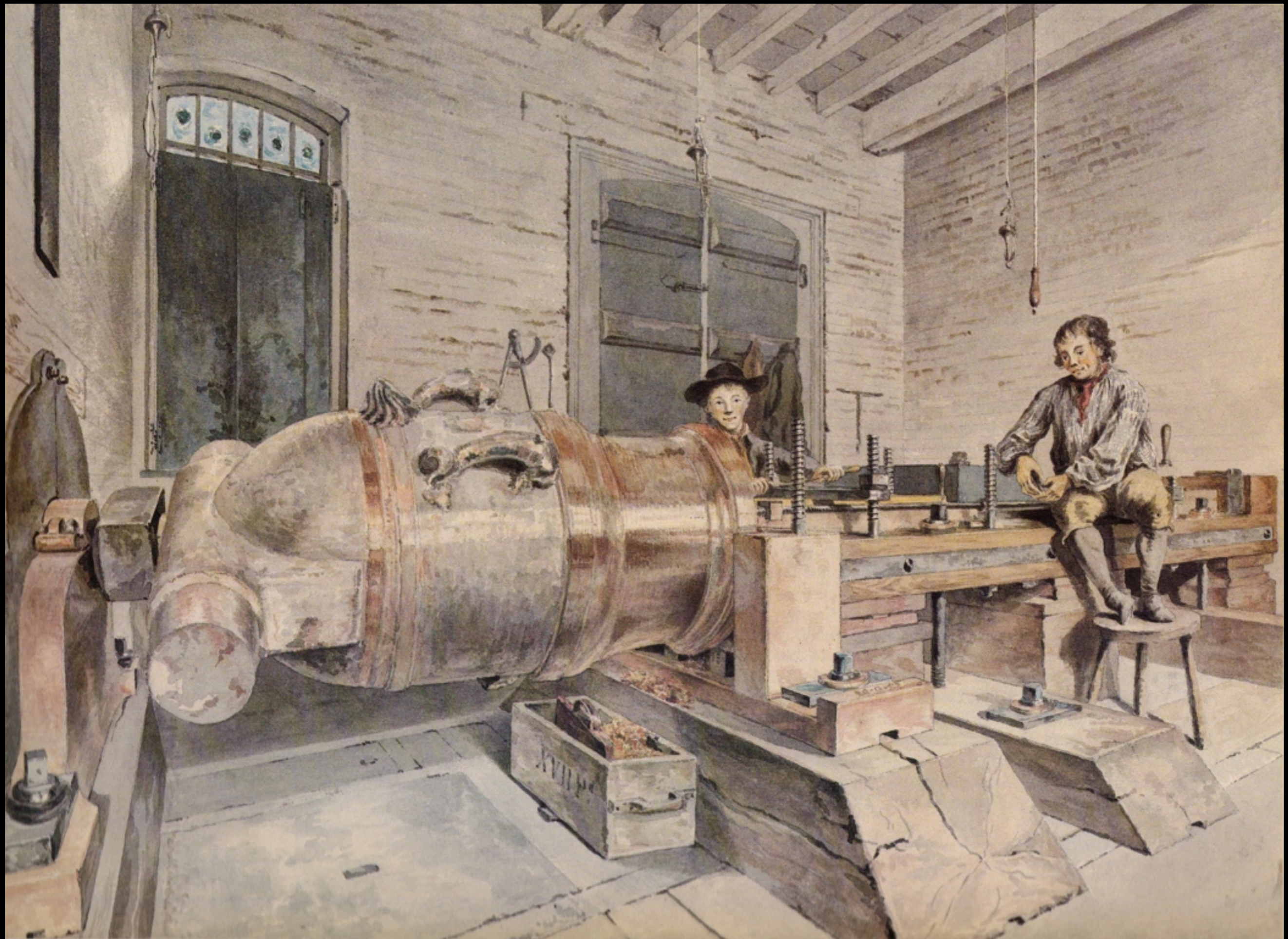












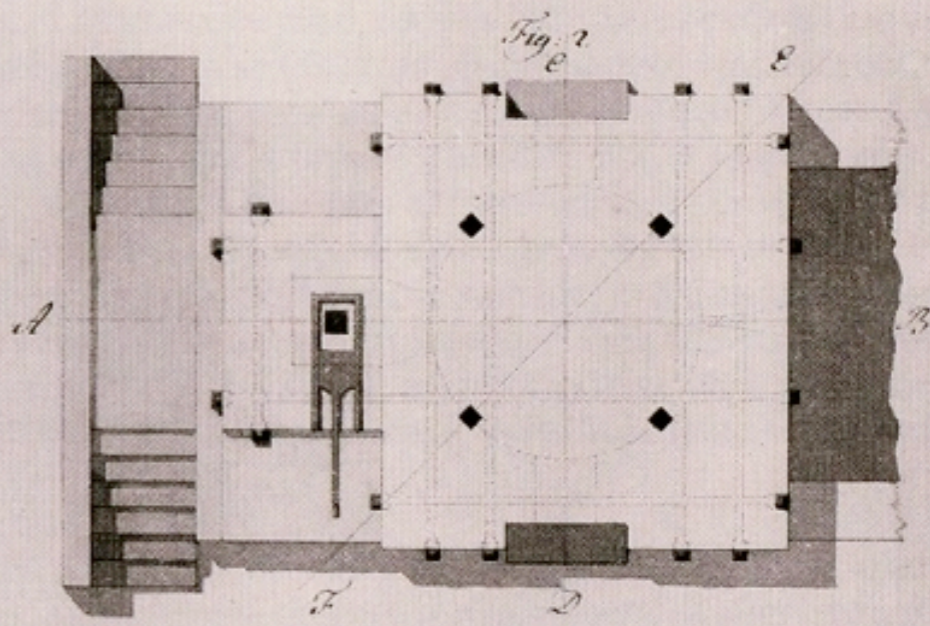
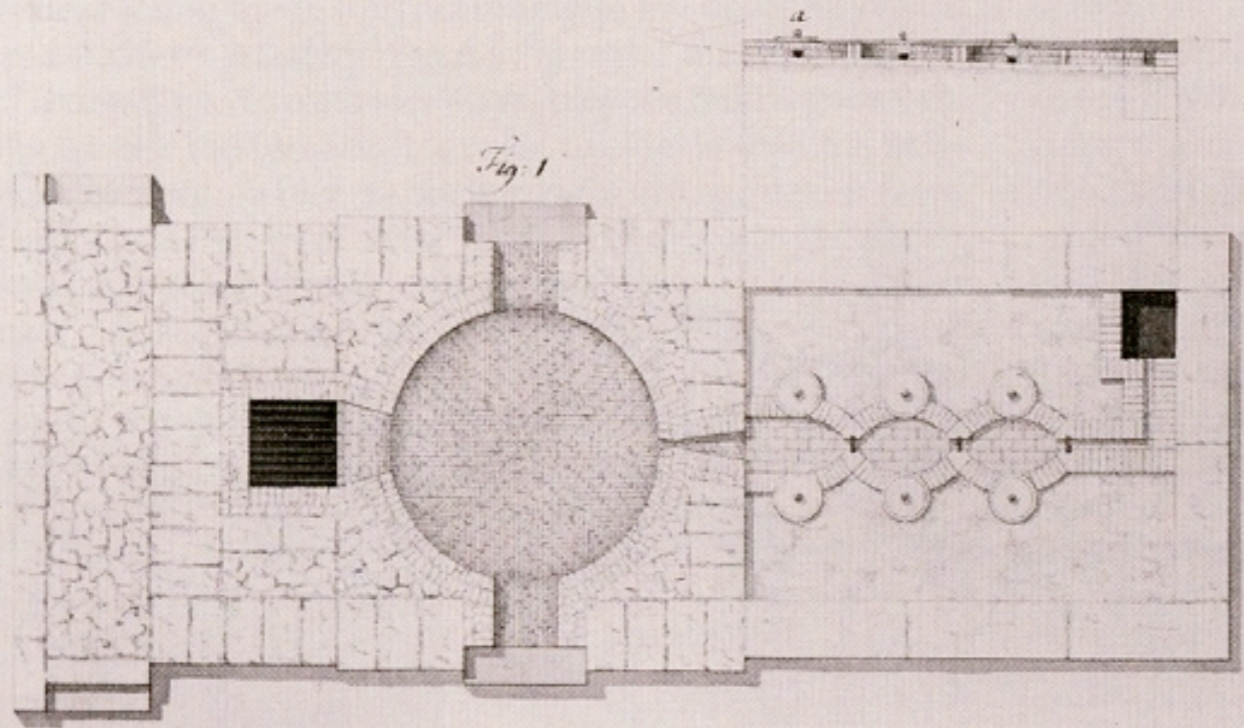
The Plates From:

A Treatise of Artillery

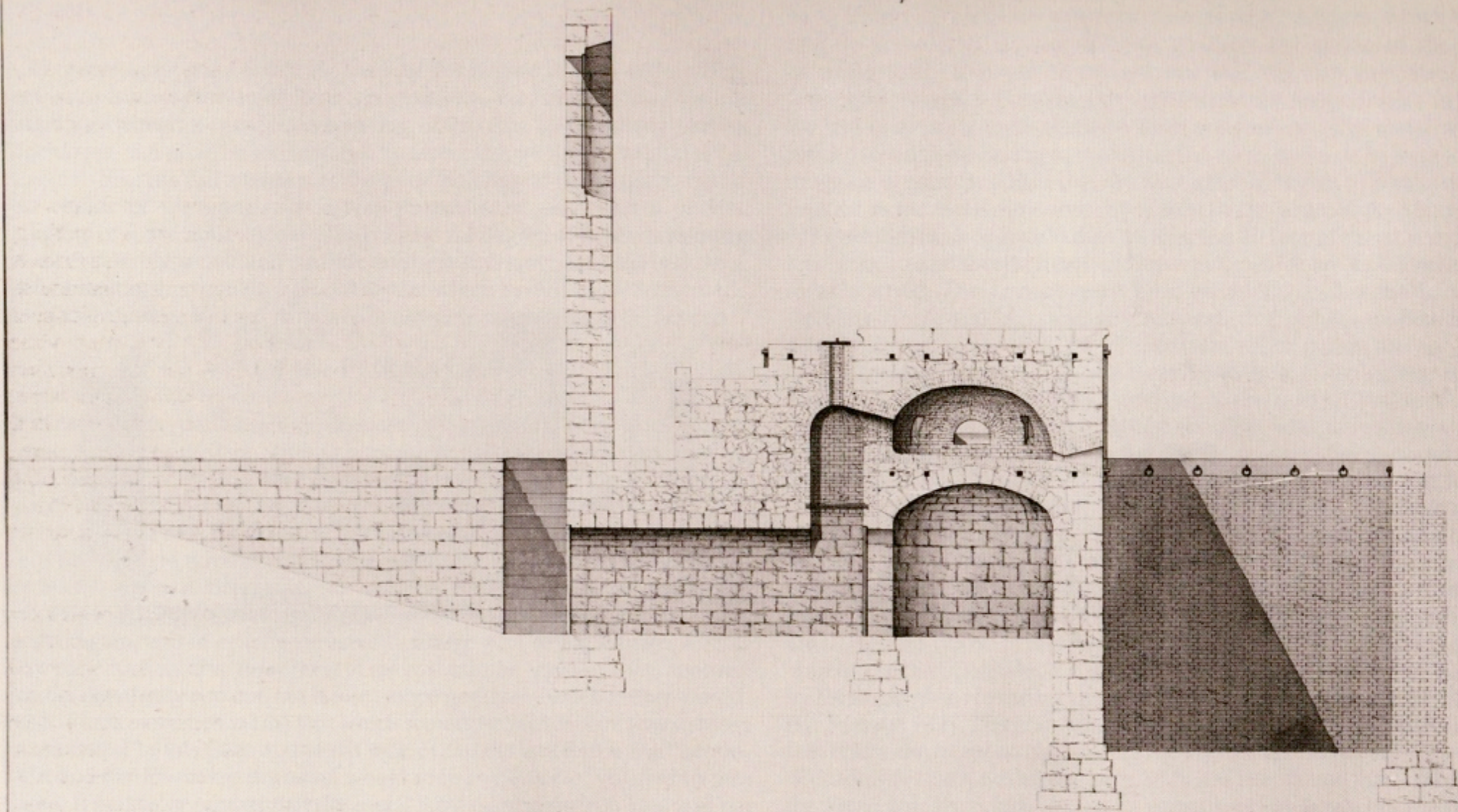
Dedicated to Prince William

By David Emanuel Musly, Captain of Artillery c. 1760 - 1761

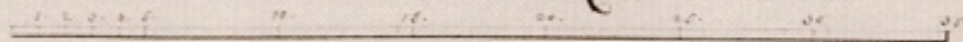
(Library of the Royal Military Academy at Breda, Netherlands)

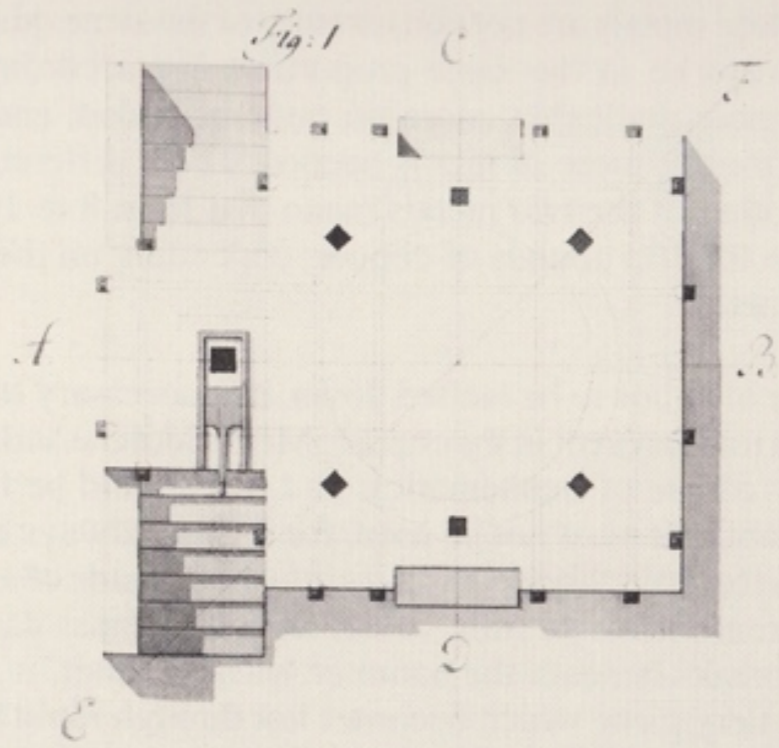


33. Plus de Roi.

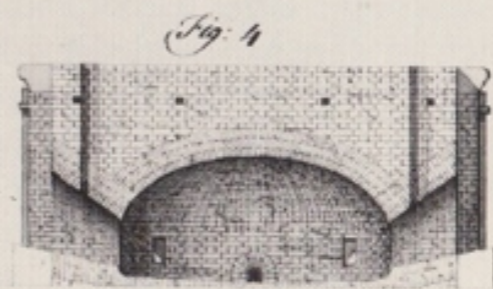
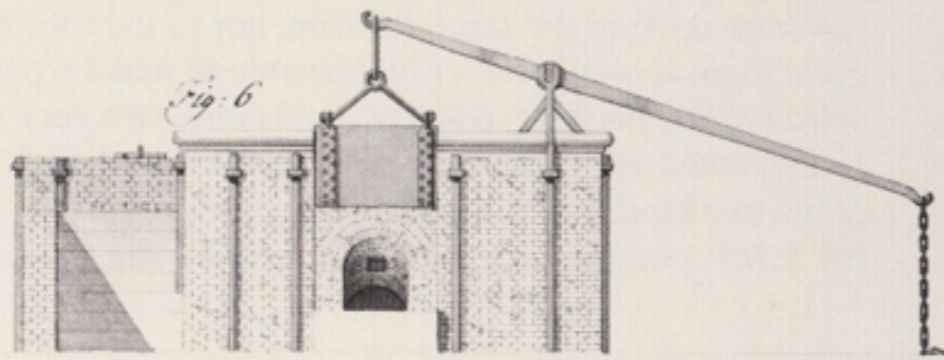
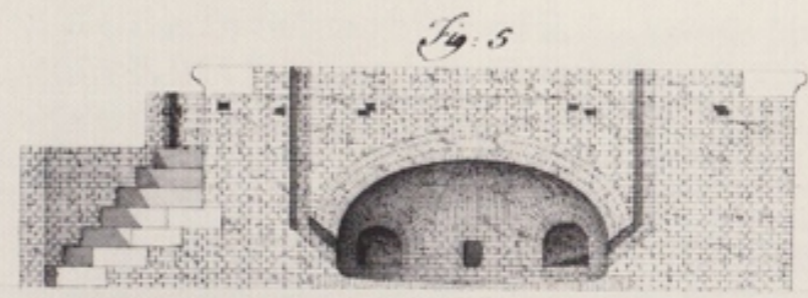
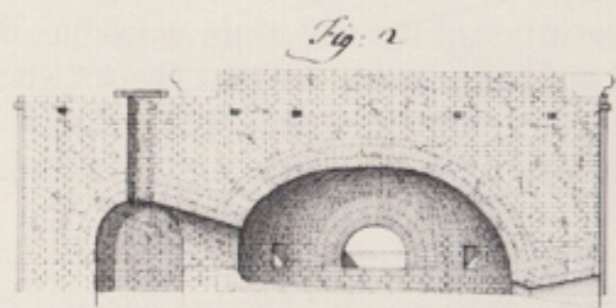
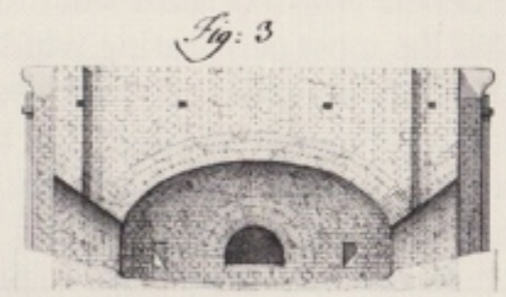


33. *Plus le Roi.*





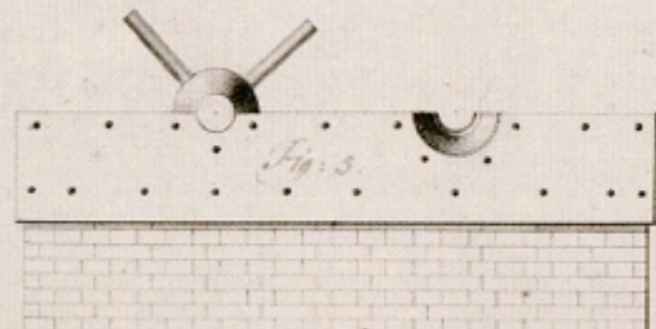
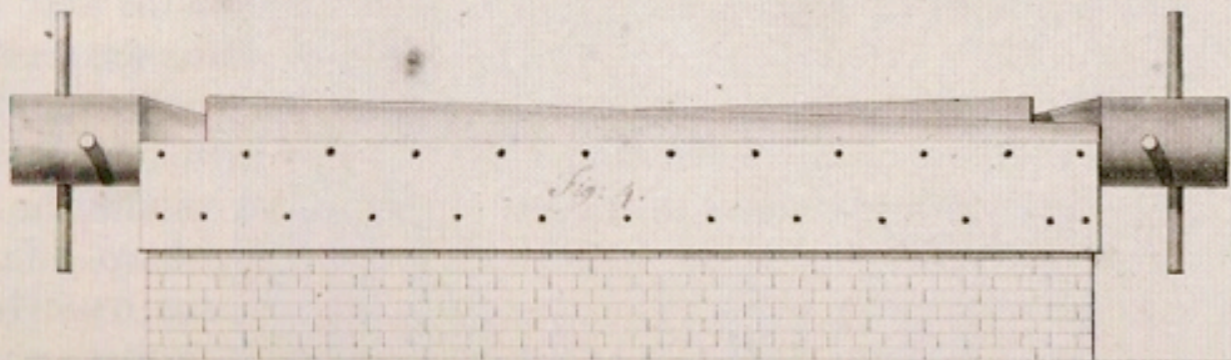
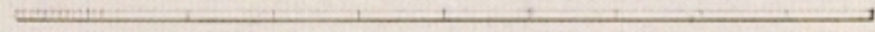
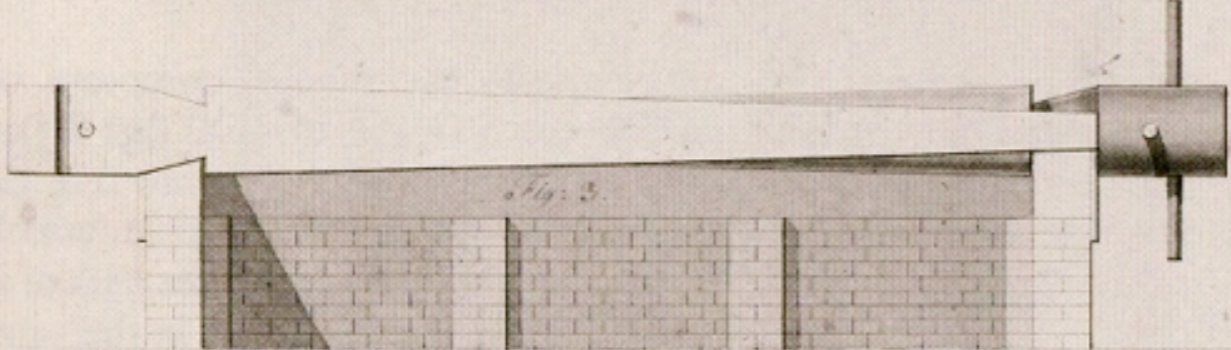
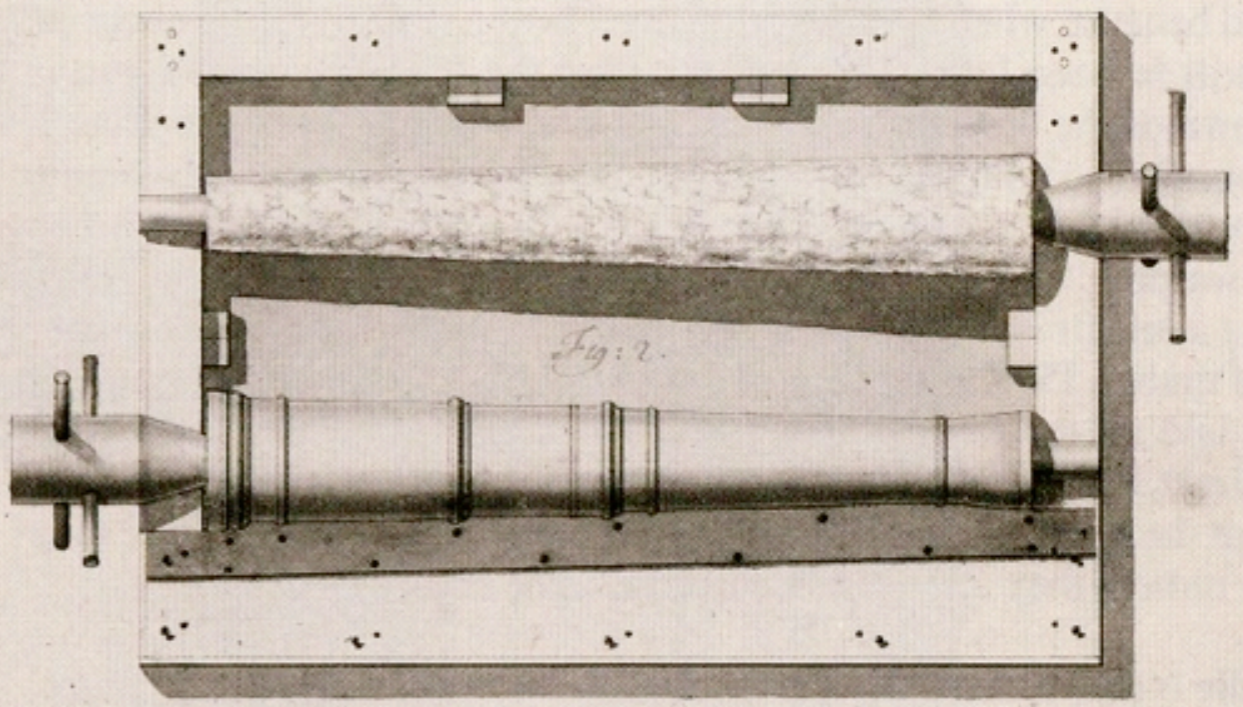
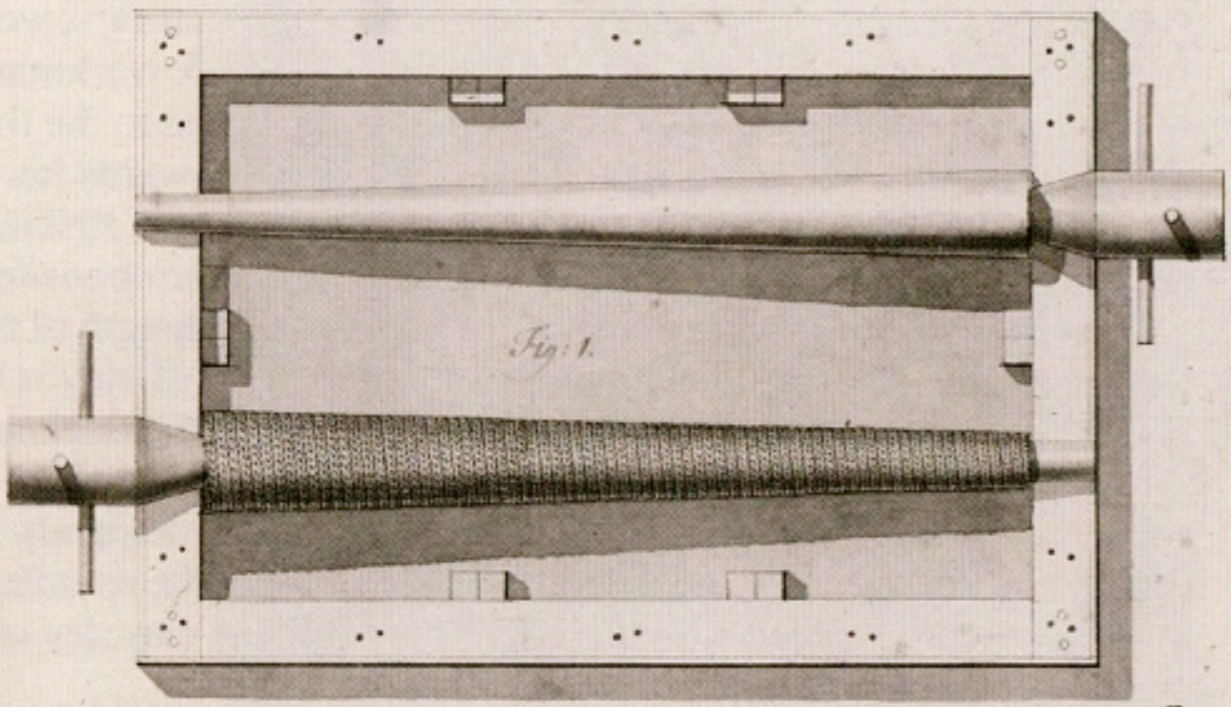
33 Piste Roi.





Dirigé par l'Auteur.

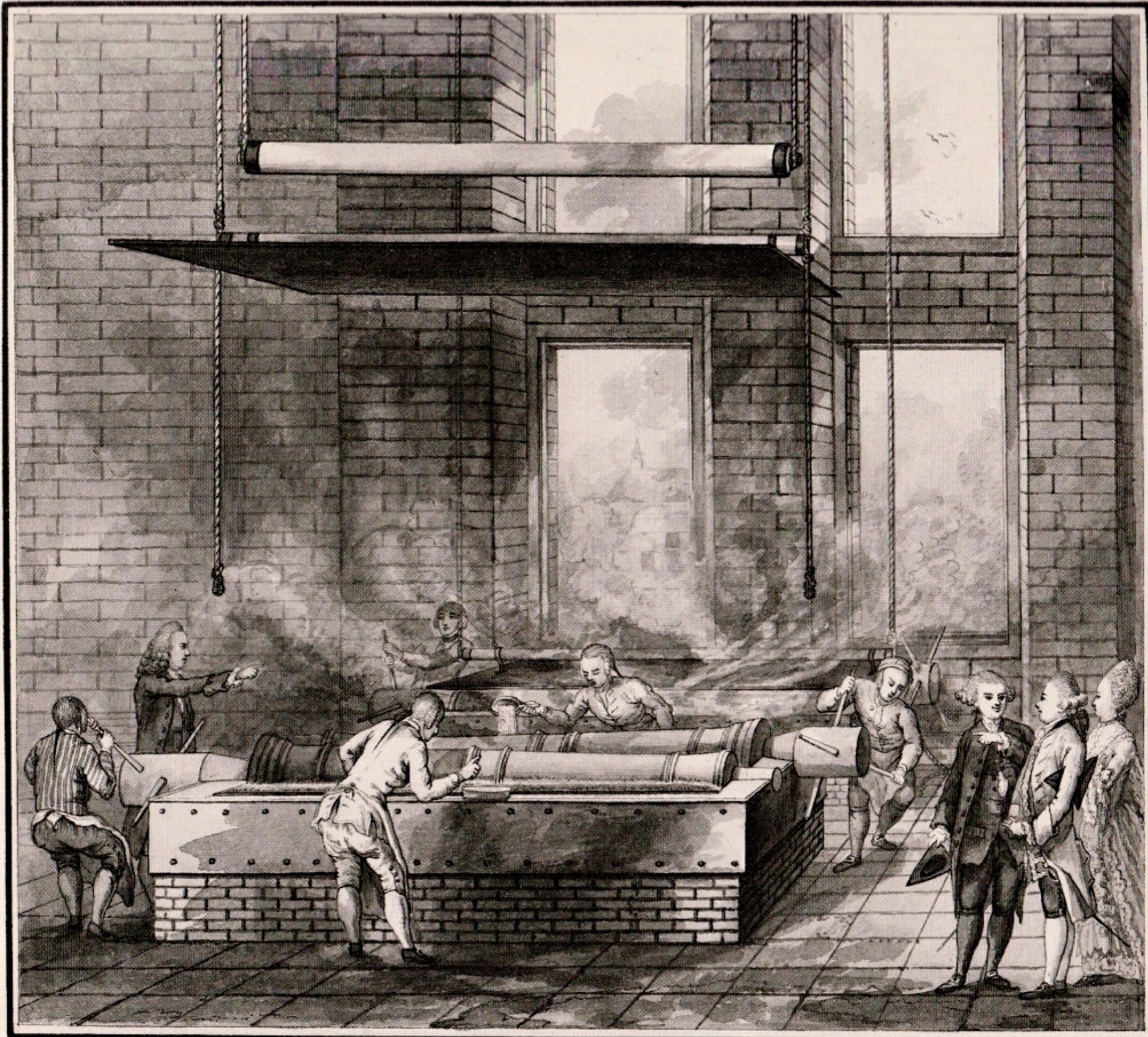
De dessin par J. L. La Fougère. La perspective tracée par C. Schaff.





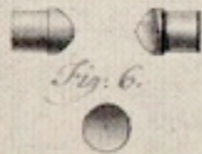
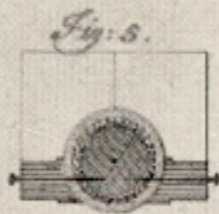
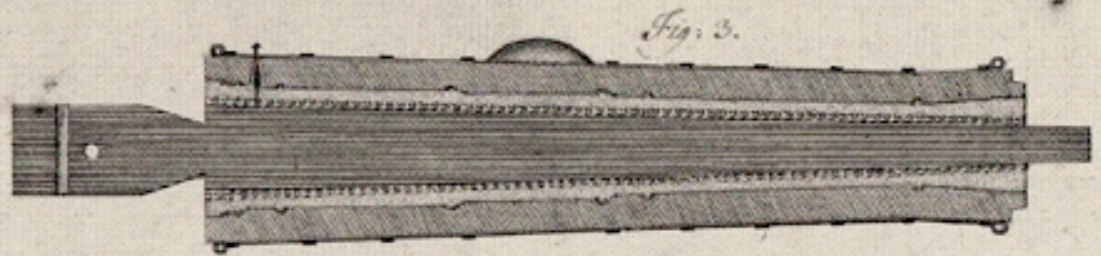
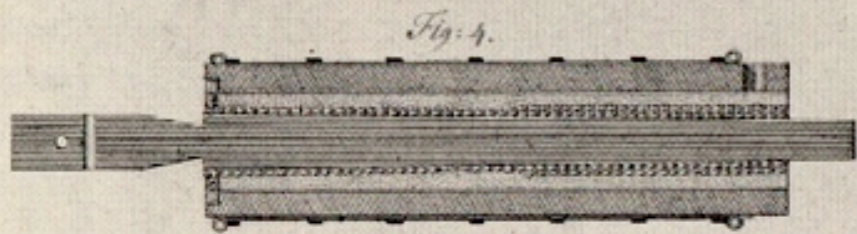
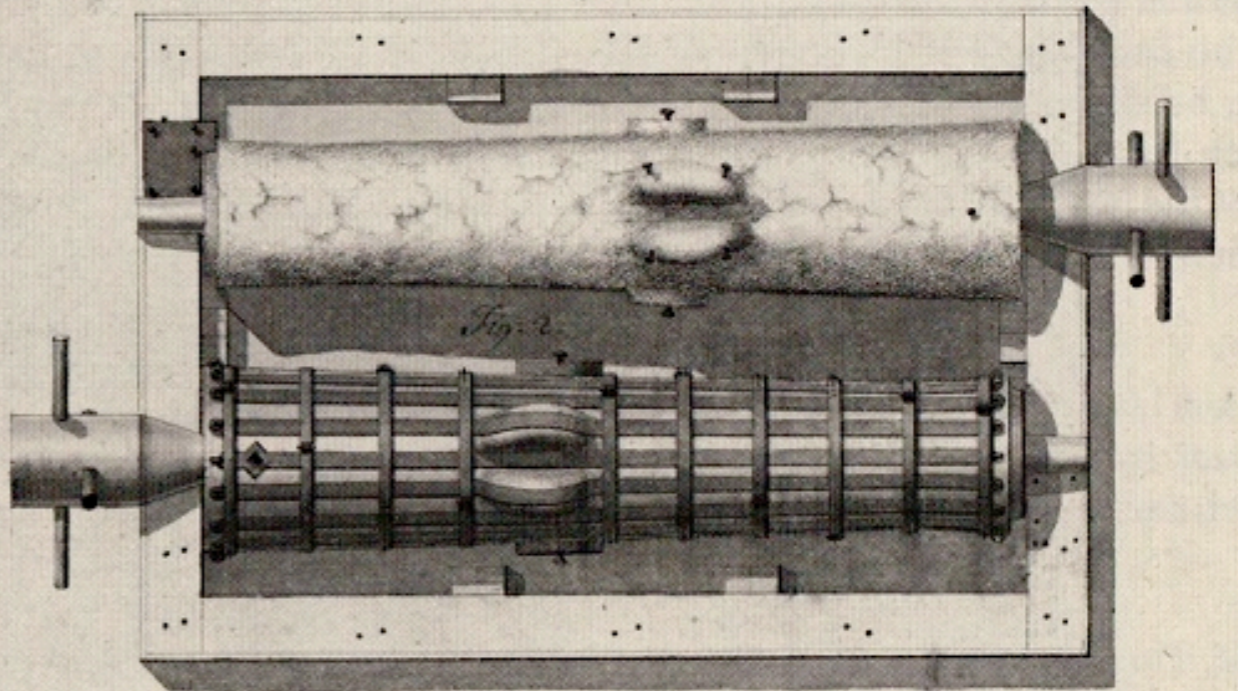
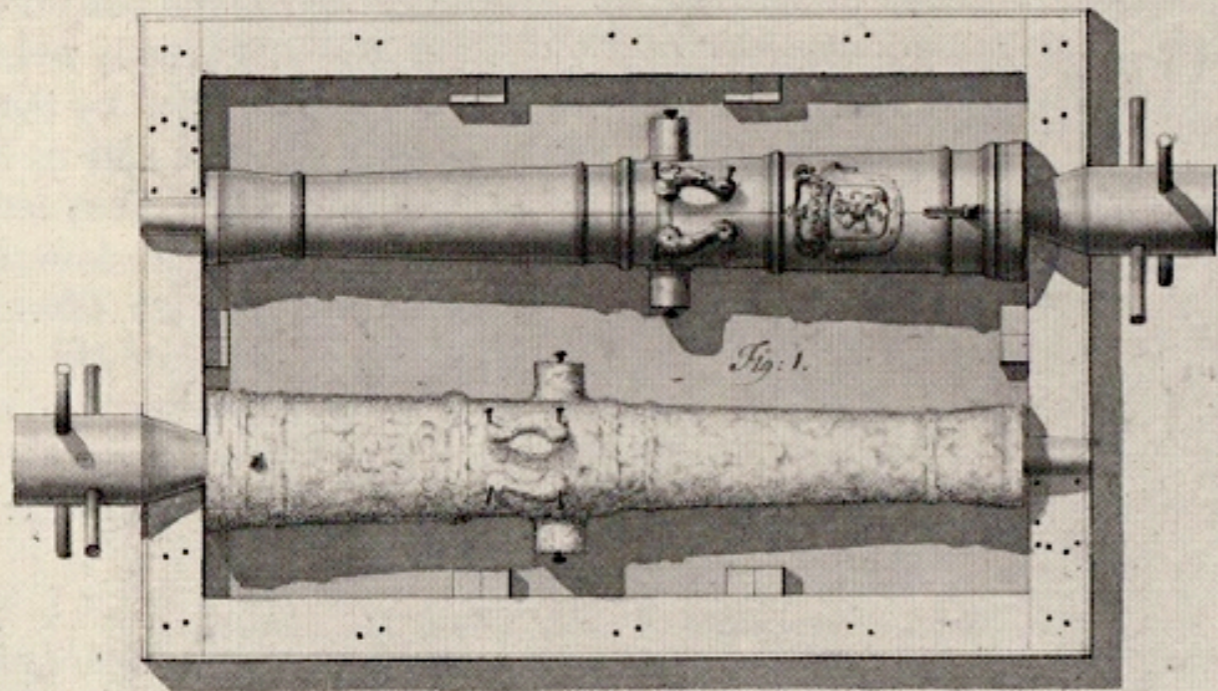
Dirigé par l'Auteur.

Designé par J. L. La Fontaine. La perspective tracée par C. Schorff.



Dirigé par l'Autheur.

Dessiné par J. L. La Fargue. La perspective traité par C. Scherff



5 Pies de Livo.



Dirigé par l'Auteur.

Designé par J. L. La'Barque. La perspective tracée par C. Schaff.



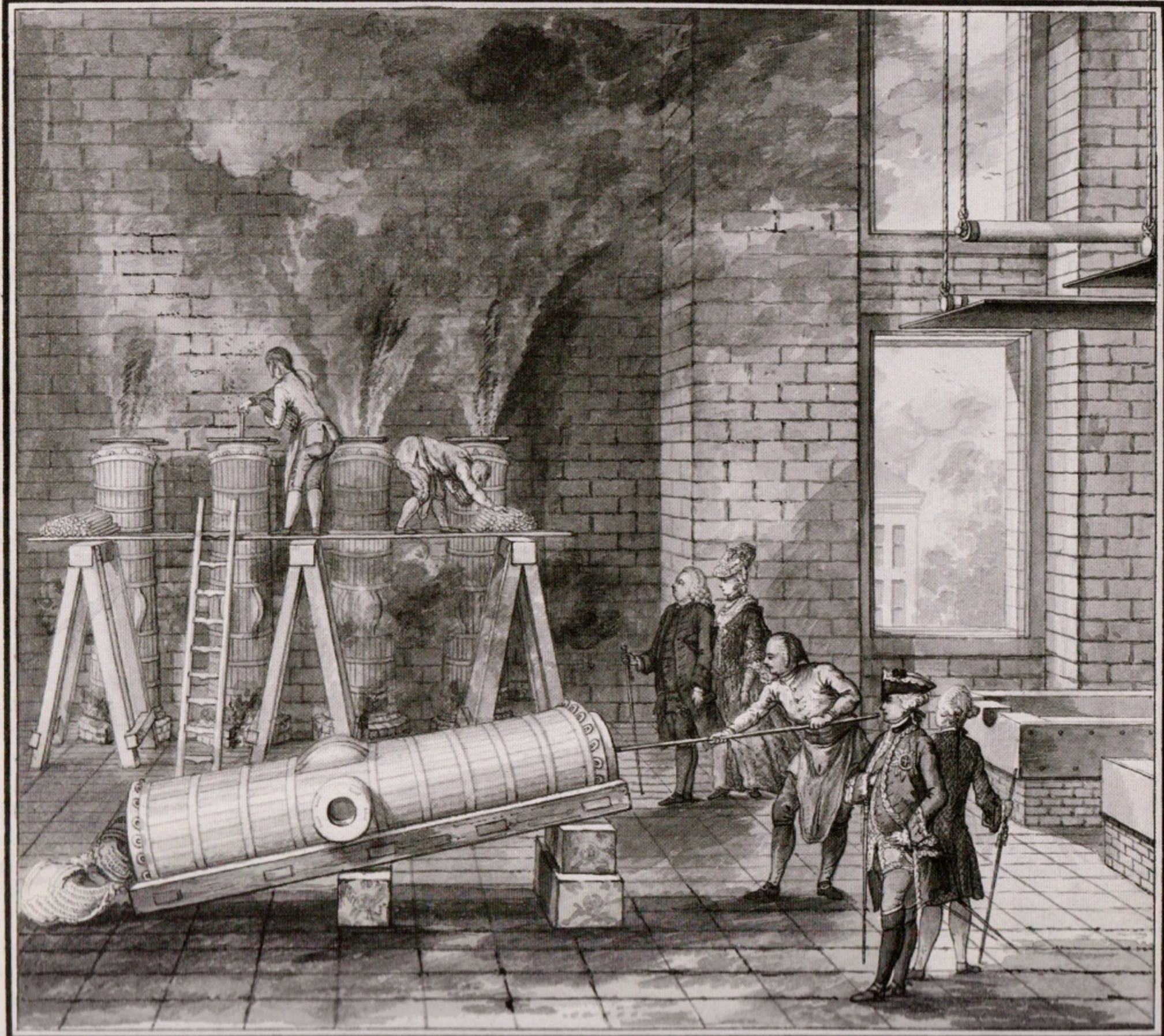
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Designé par J. L. La Fontaine. La perspective terminée par C. Schaeff.



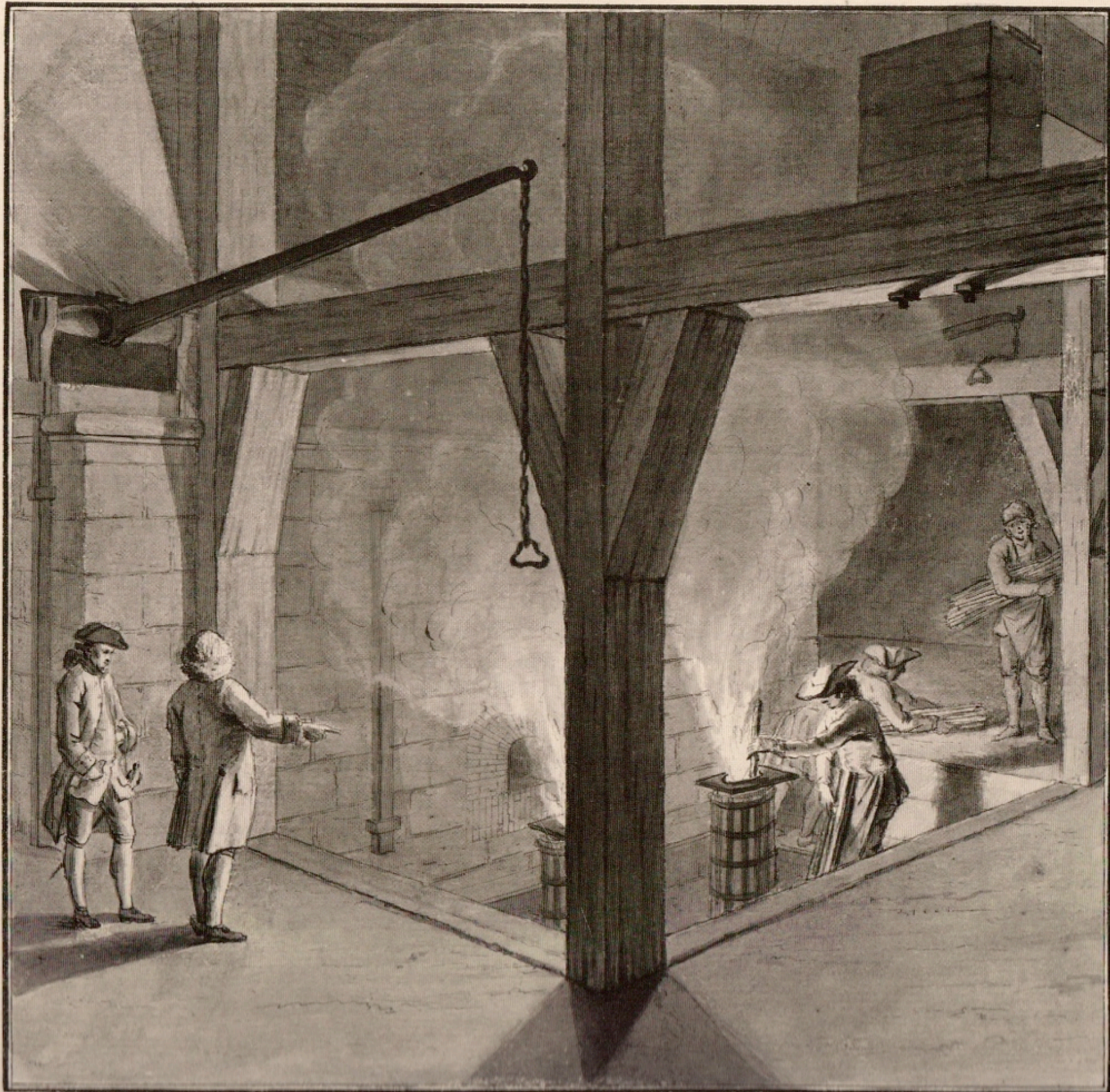
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Desiné par J. L. La Furg. La perspective tracé par C. Schurf.



Dirigé par l'Auteur.

Designé par J. L. La Fargue. La perspective tracée par C. Schaeff.



Dirigé par M. de la Harpe.

Designé par Humbert. La perspective tracée par C. Scharff.

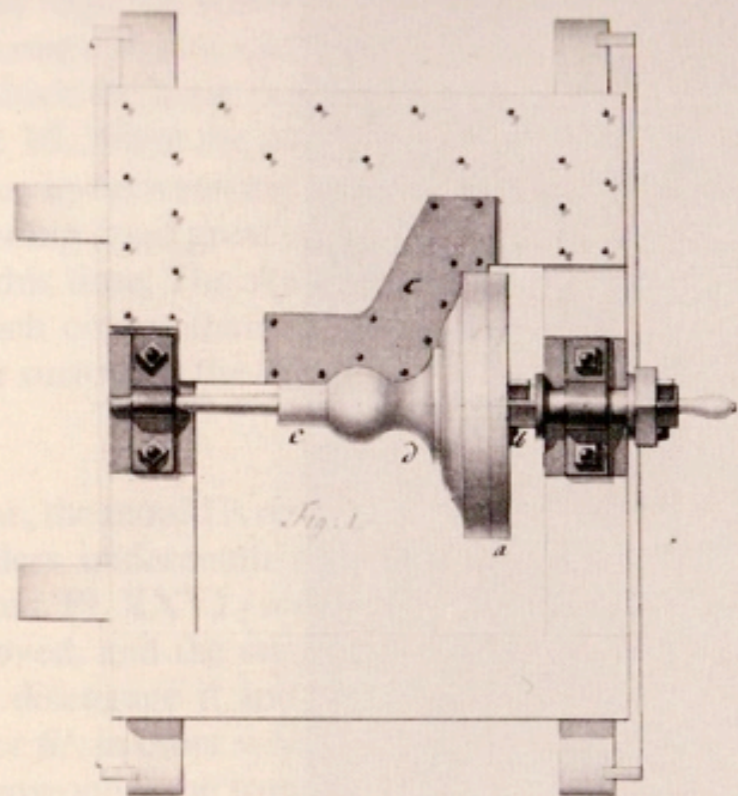


Fig. 1.

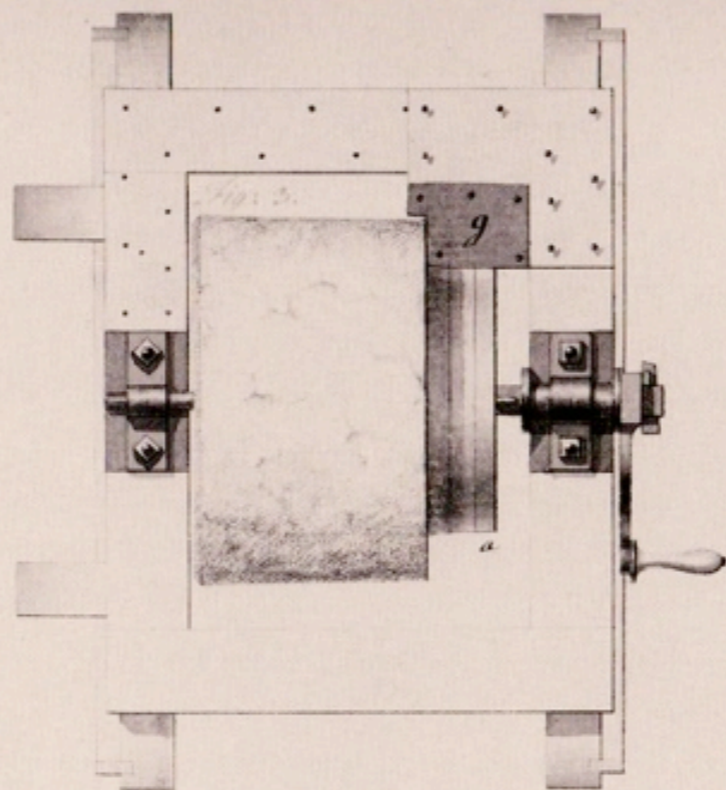


Fig. 2.

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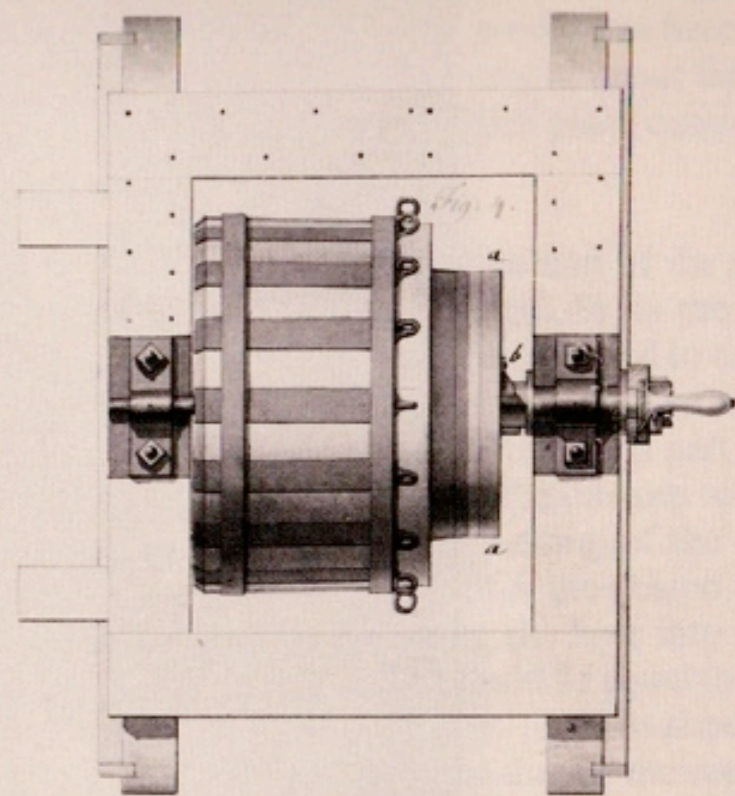


Fig. 3.

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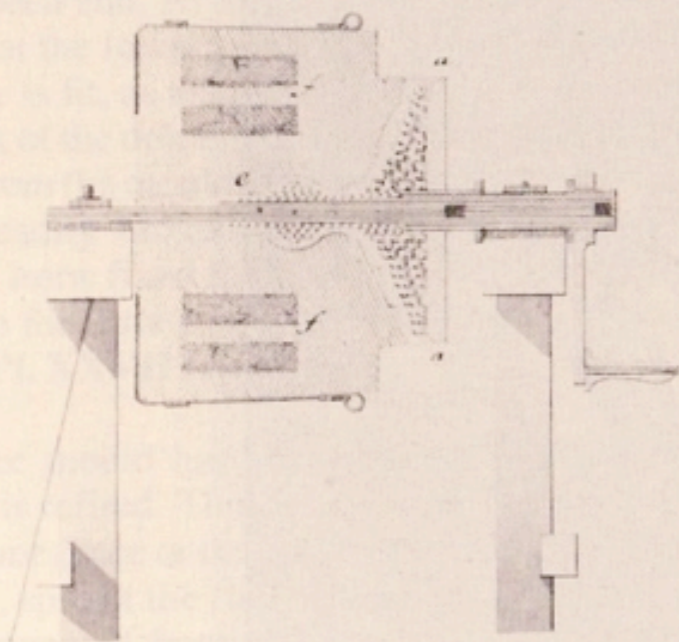
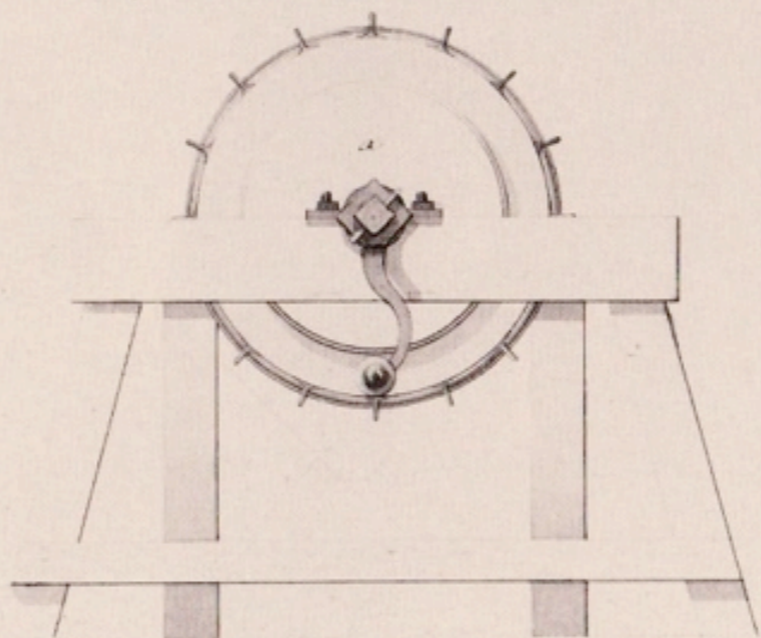


Fig. 4.



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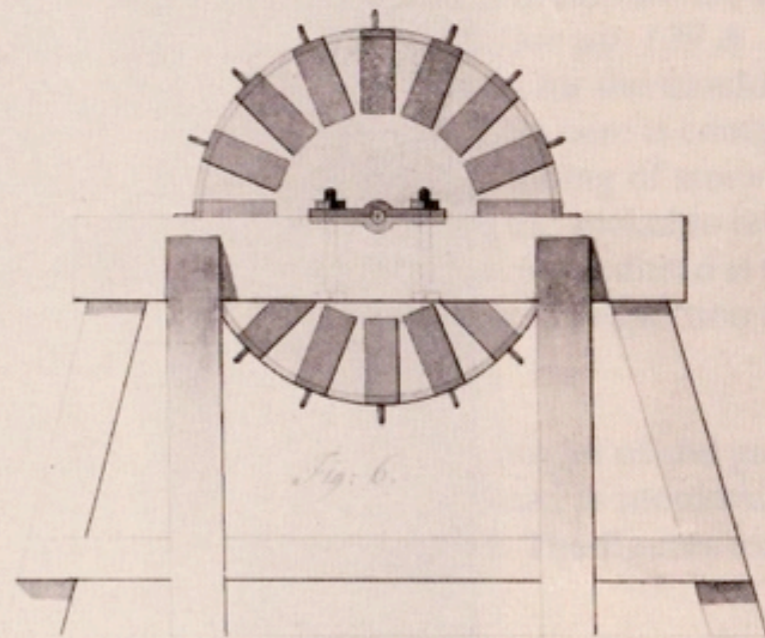


Fig. 6.

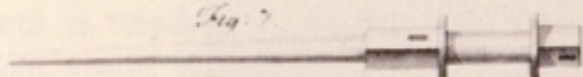


Fig. 7.

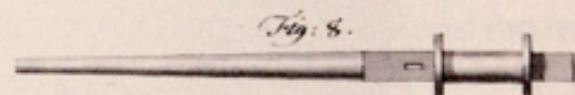


Fig. 8.



Dirigé par l'Auteur.

Designé par J. L. La Fontaine. La perspective tracée par C. Schaff.

N^o I.

Fig: 1.

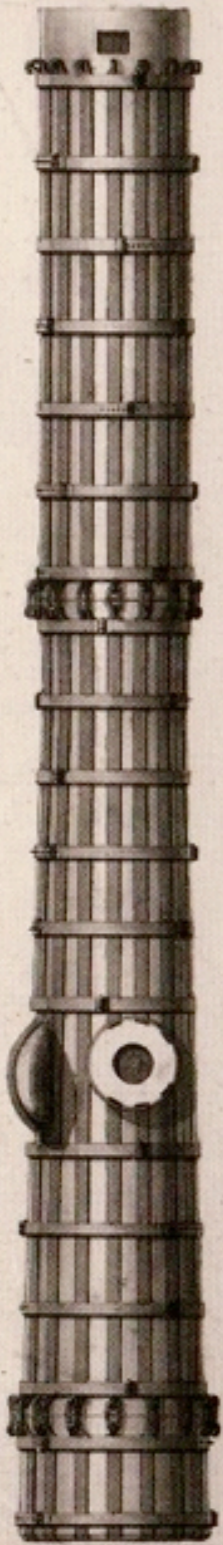


Fig: 2.

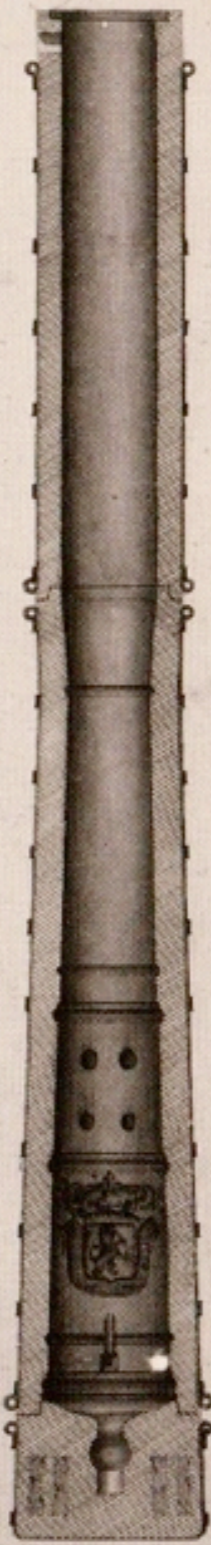


Fig: 3.



0 1 2 3 4 5 6 7 8 9 10 Pies de Paris

Dessiné par l'Autheur

N^o II.

Fig: 5.



Fig: 4.



Fig: 10.

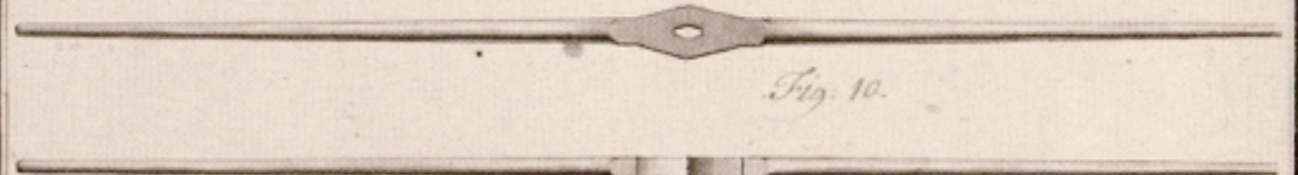


Fig: 11.



Fig: 9.



Fig: 13.

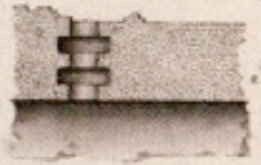


Fig: 6.

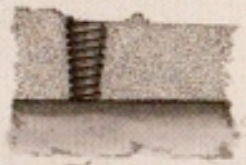


Fig: 8.



Fig: 12.

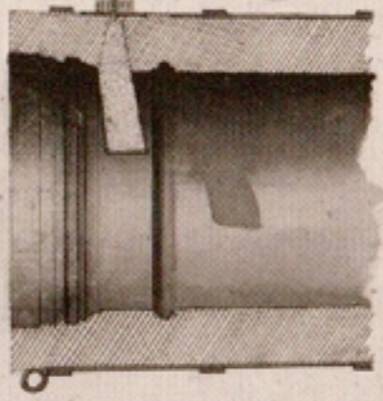
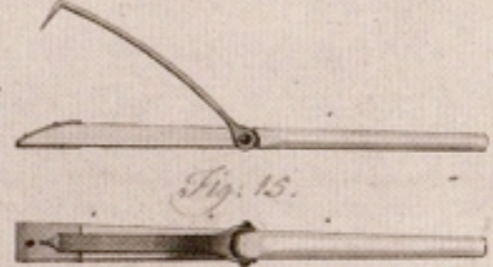


Fig: 14.



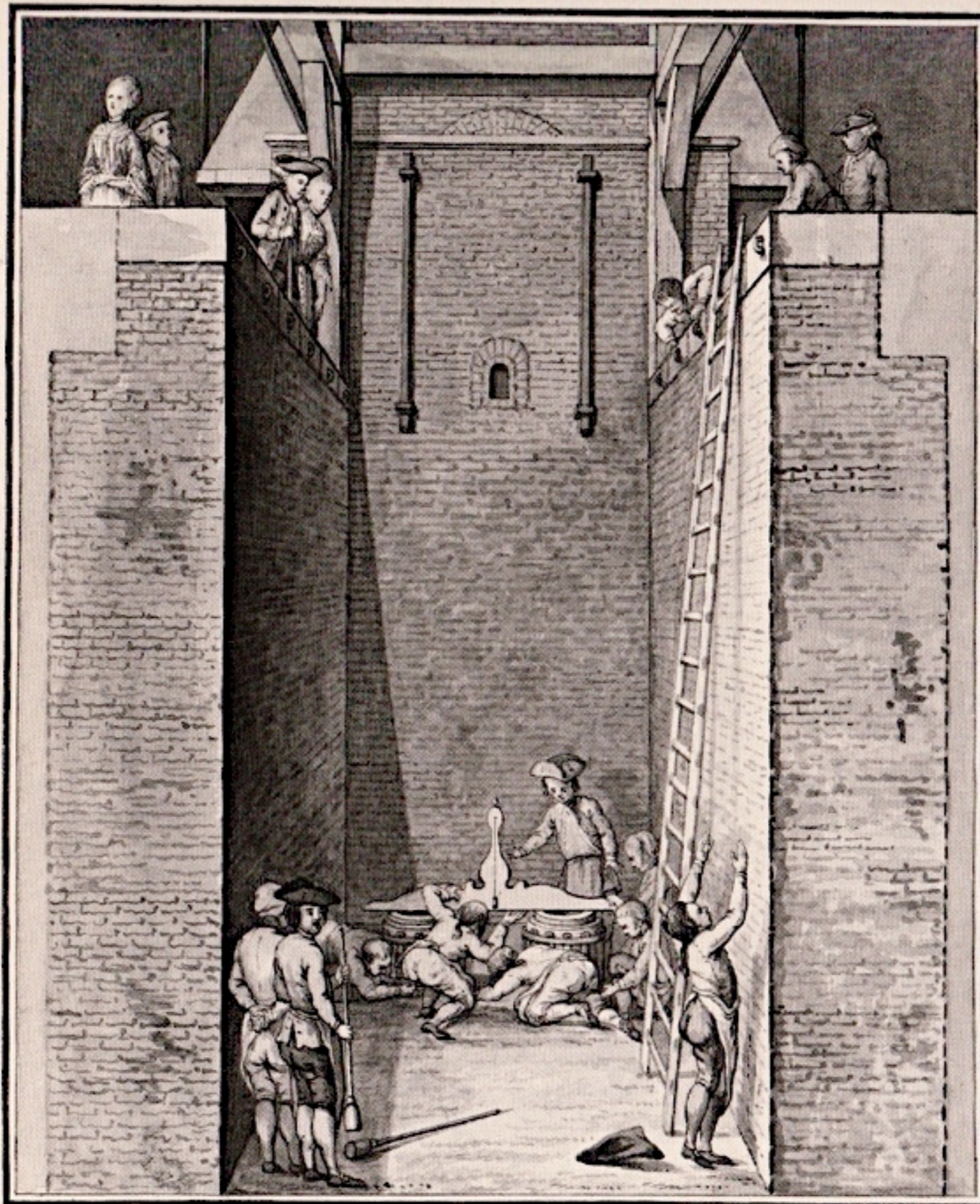
Fig: 15.



Pies de Paris

0 1 2 3 4 5 6 7 8 9 10

Dessiné par C. Chasif

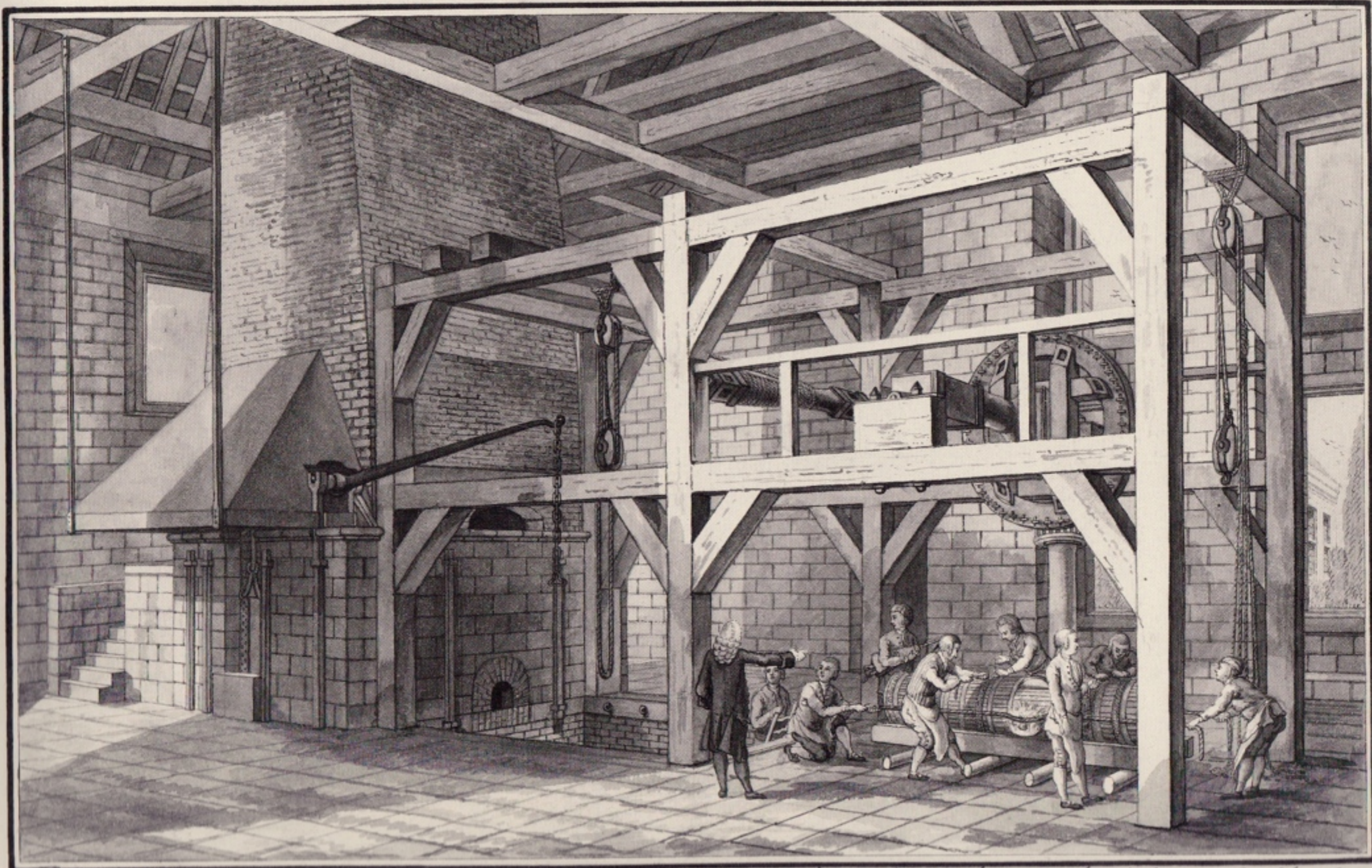


Dirigé par l'Auteur. Dessiné par J. L. LeClerc. La perspective tracée par C. Schaeff.

PARTIE I TITRE III PLANCHE XXXIV

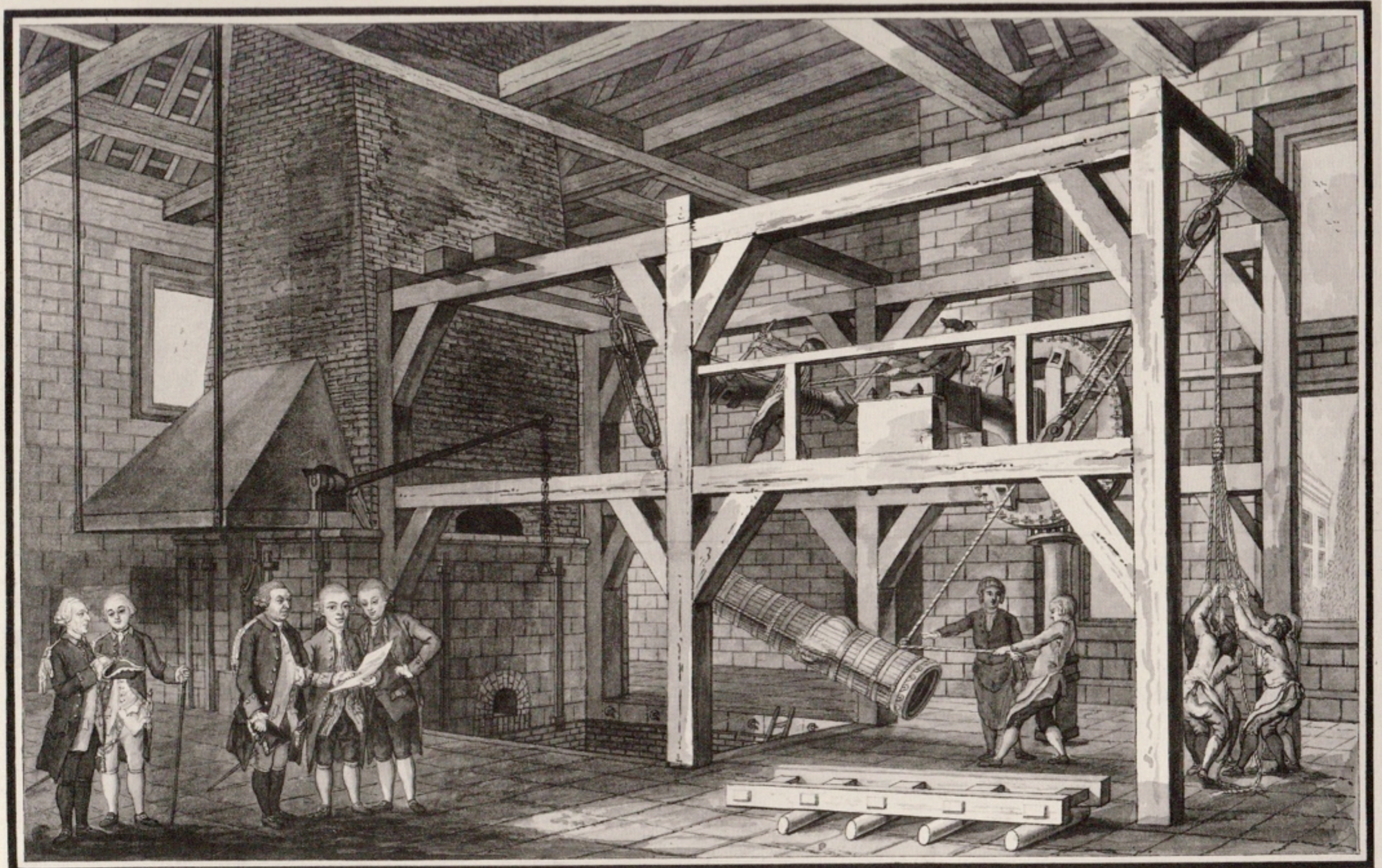


Ingré par l'Auteur. Dessiné par P. C. La Fargue. La perspective tracée par C. Séhar.



Dirigé par l'Auteur.

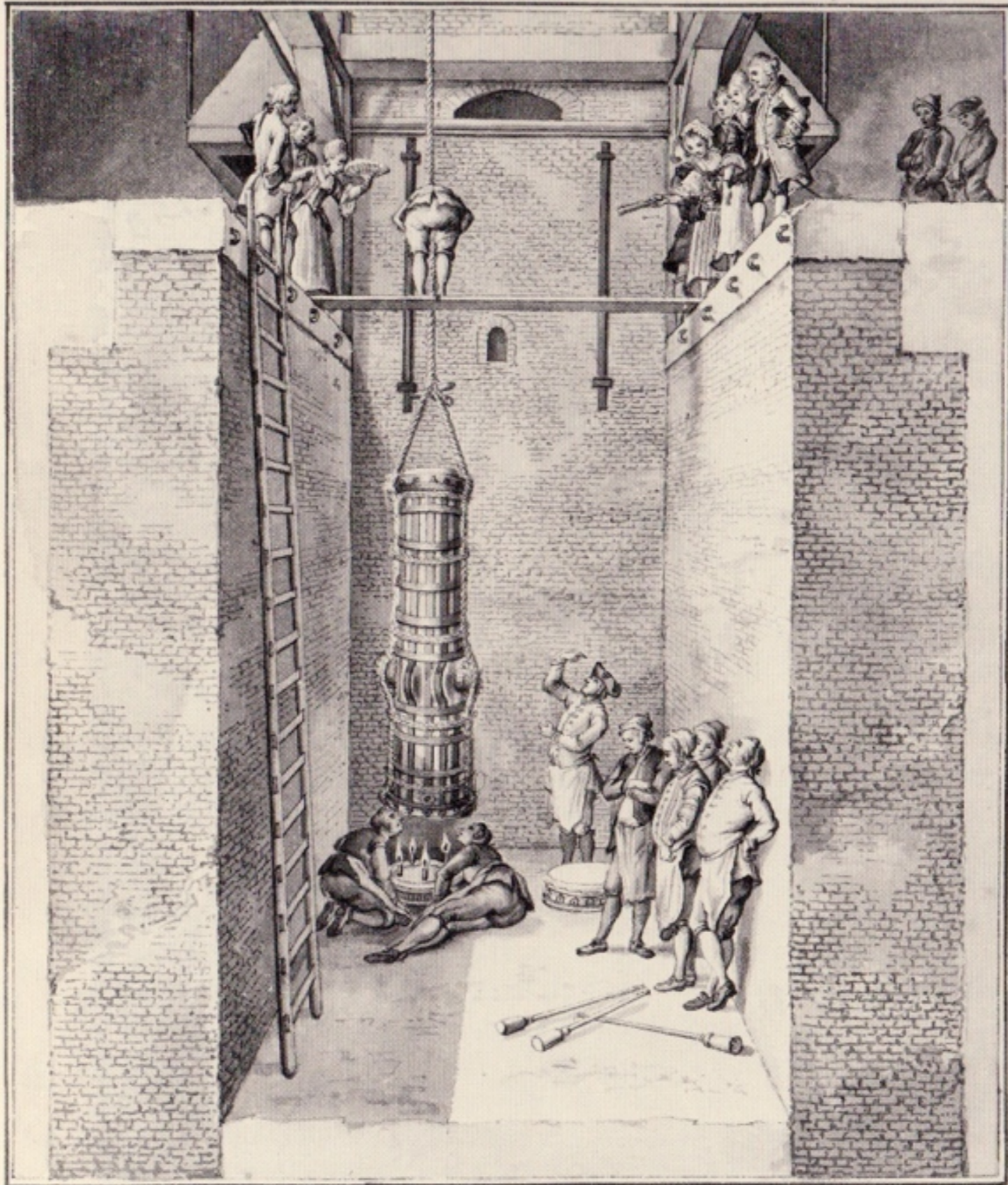
Designé par J. L. Le Tourneur. La perspective tracée par C. Schaff.



Dirigé par l'Auteur.

Designé par J. L. La Fargue. La perspective tracée par C. Schaff.

PARTIE I TITRE II PLANCHE XXXV

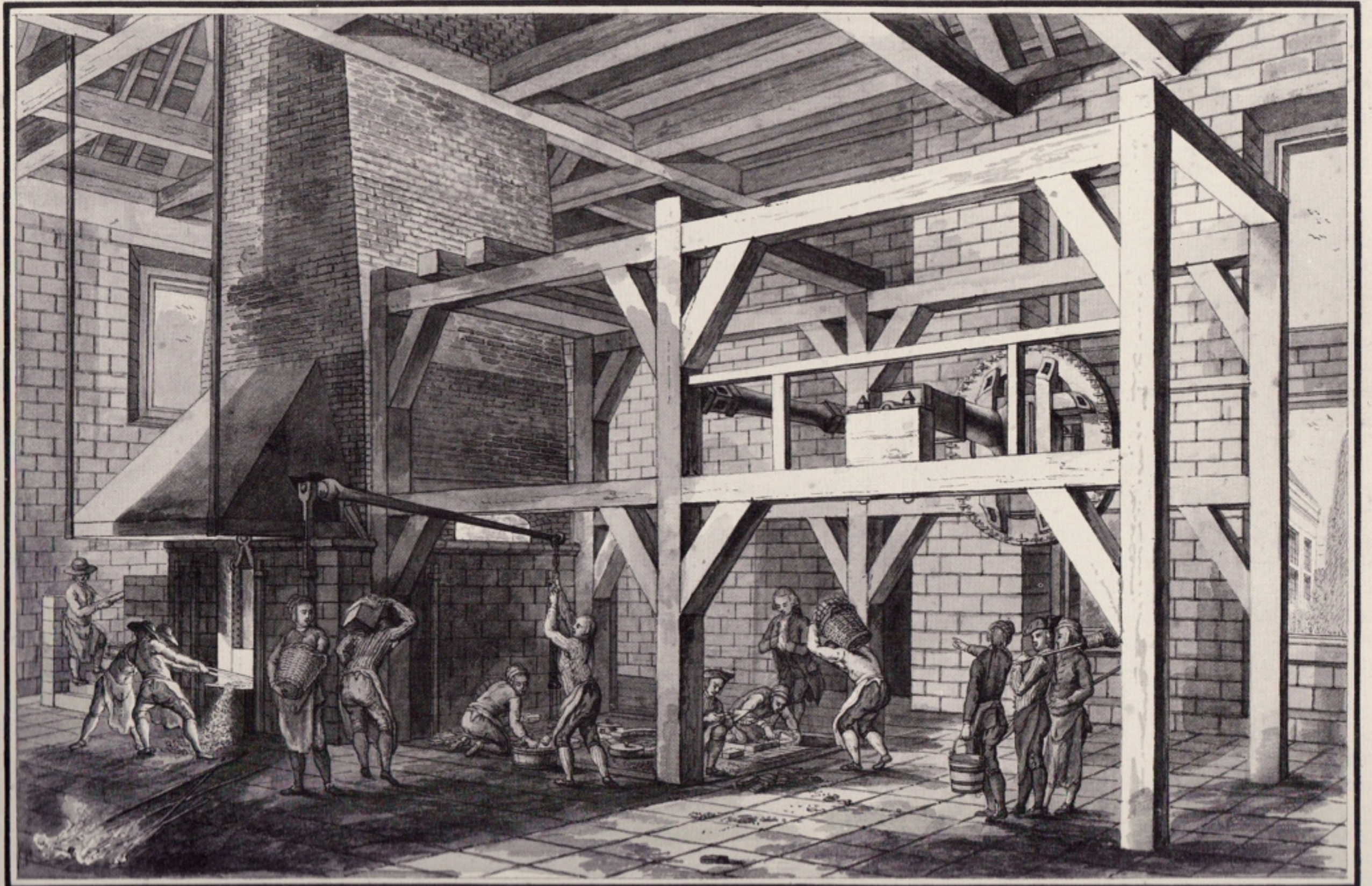


Dirigé par l'Auteur. Dessiné par P. C. de La Fargue. La perspective tracée par C. Schaff.

PARTIE I TITRE II PLANCHE XXXVI

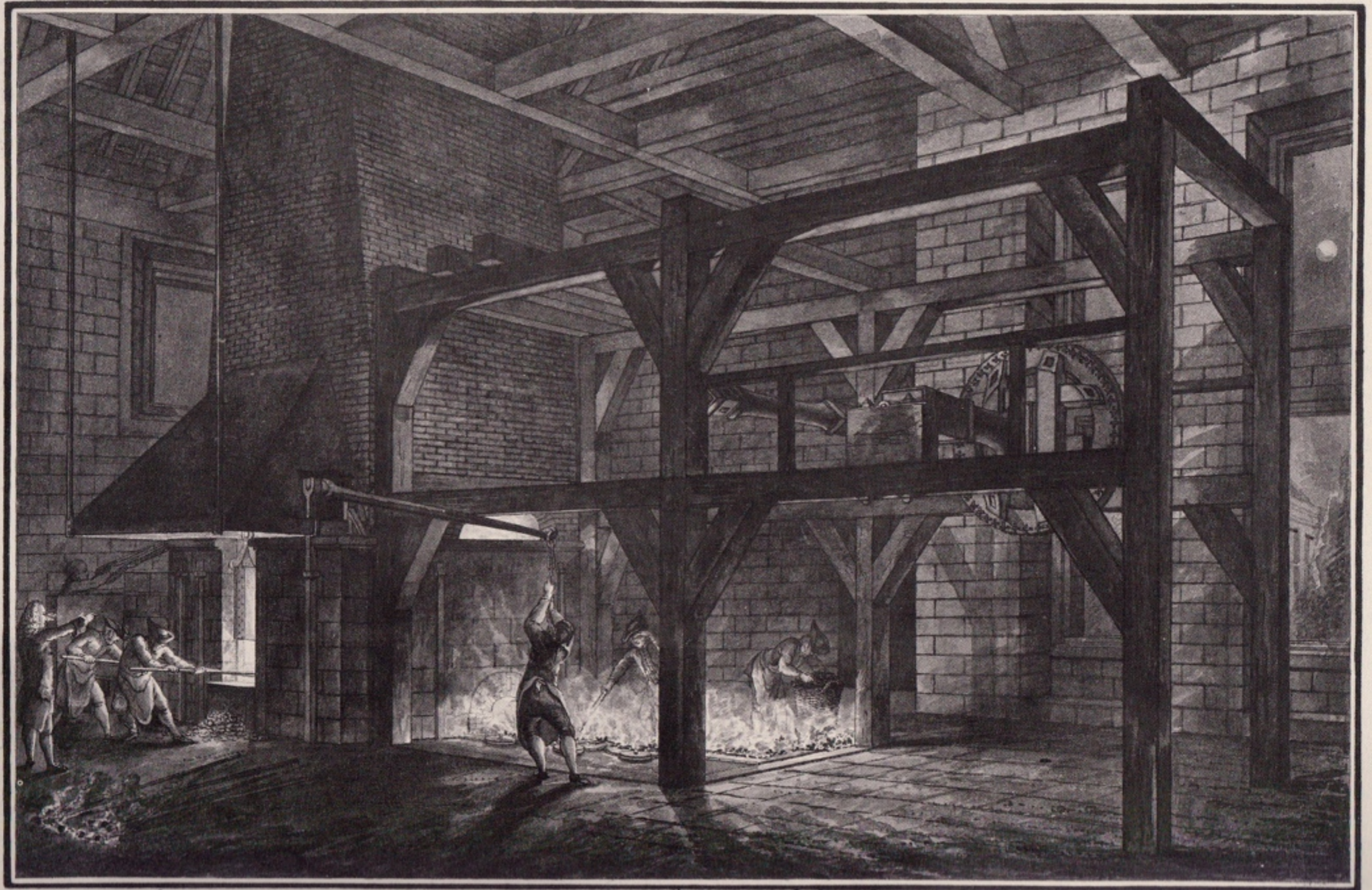


Dirigé par l'Auteur. Dessiné par P. C. la Voisgue. La perspective tracée par C. Maréchal.



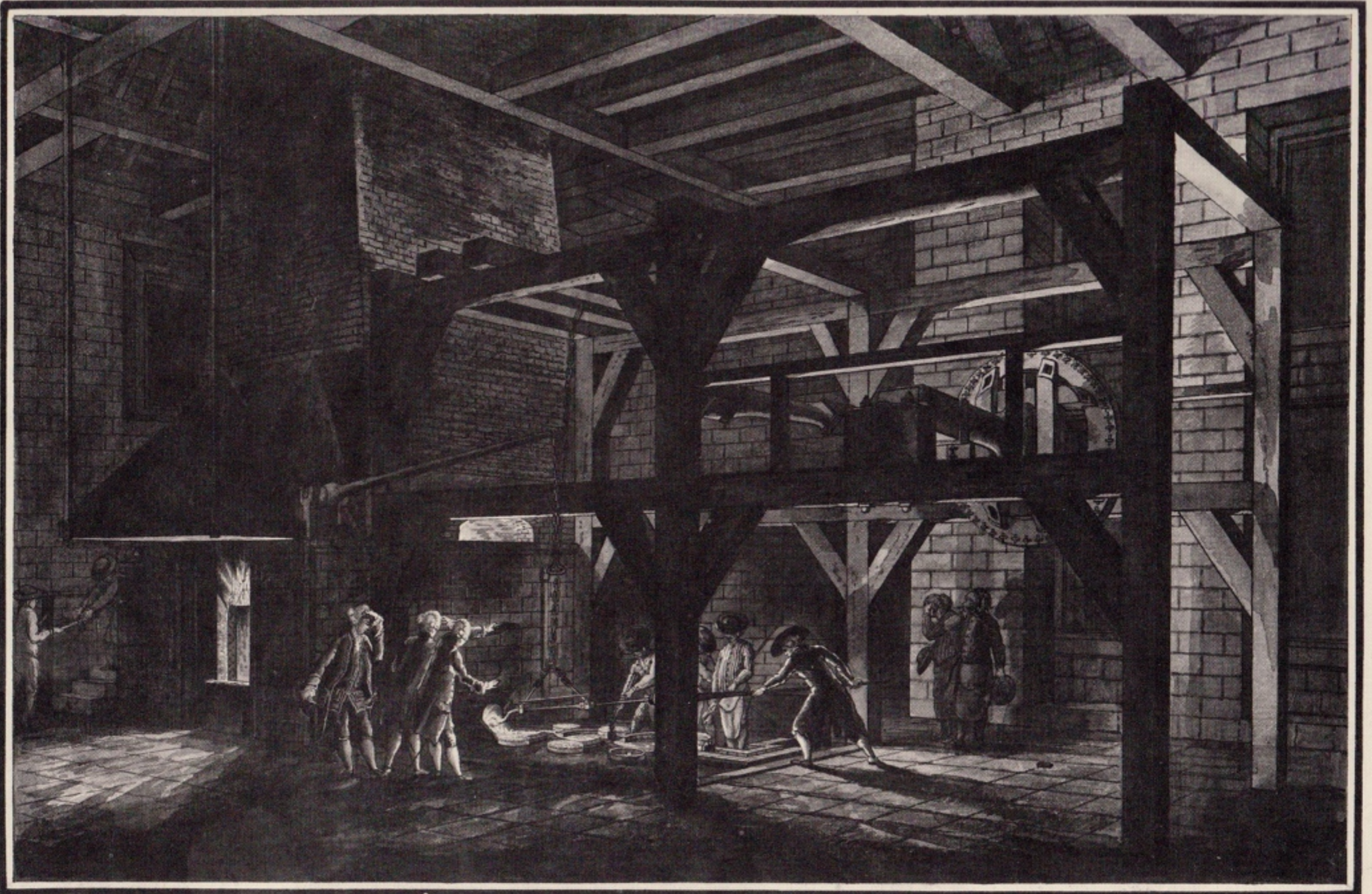
Dirigé par l'Auteur.

Designé par D. L. La Fargue. La perspective tracée par C. Scherff.



Dirigé par l'Auteur.

Desiné par J. L. LaFouque. La perspective traité par C. Schaff.



Dirigé par l'Auteur.

Designé par J. L. La Fontaine. La perspective tracée par C. Scharff.

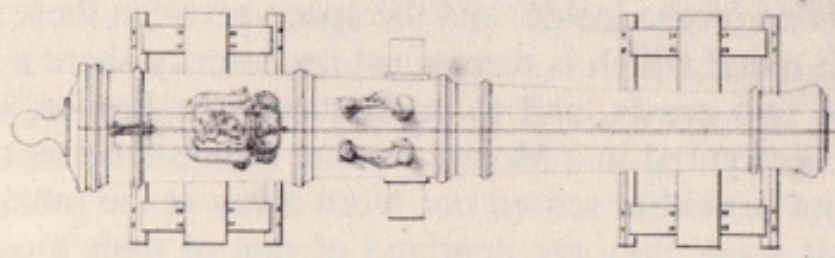


Fig. 6.

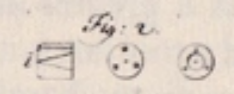
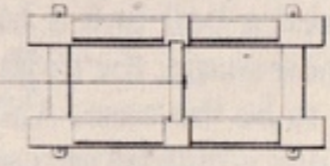


Fig. 2.

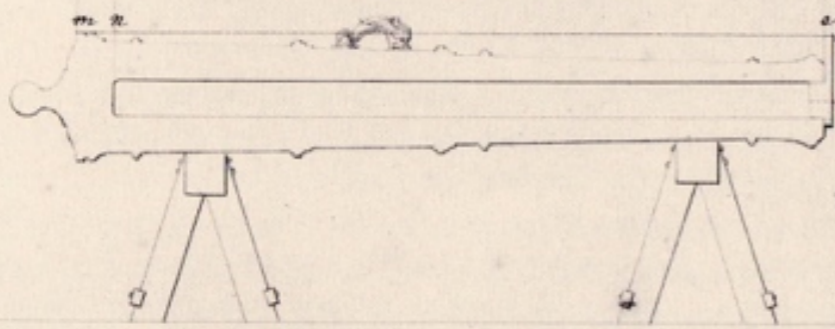


Fig. 4.

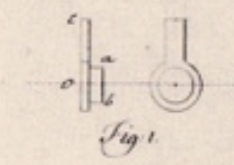
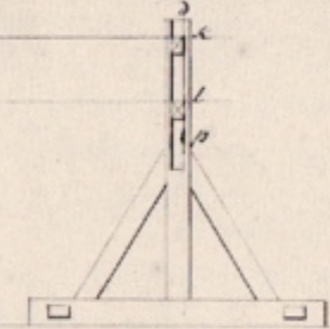


Fig. 1.

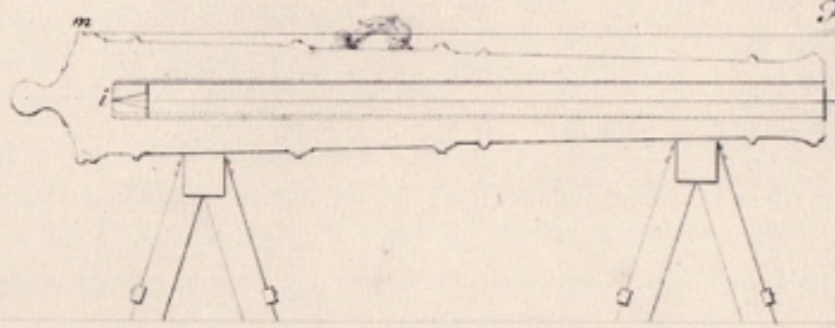


Fig. 5.

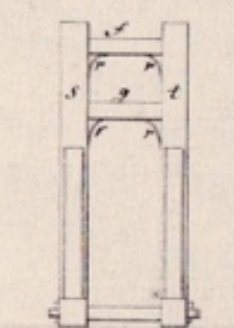
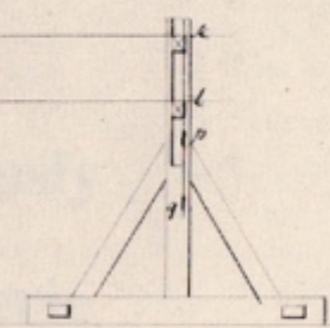
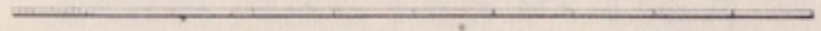


Fig. 3.



The Royal Military Academy
at
Woolwich



P. Sandby pinx.

M.A. Rocher sculp.

The Royal MILITARY ACADEMY at Woolwich.

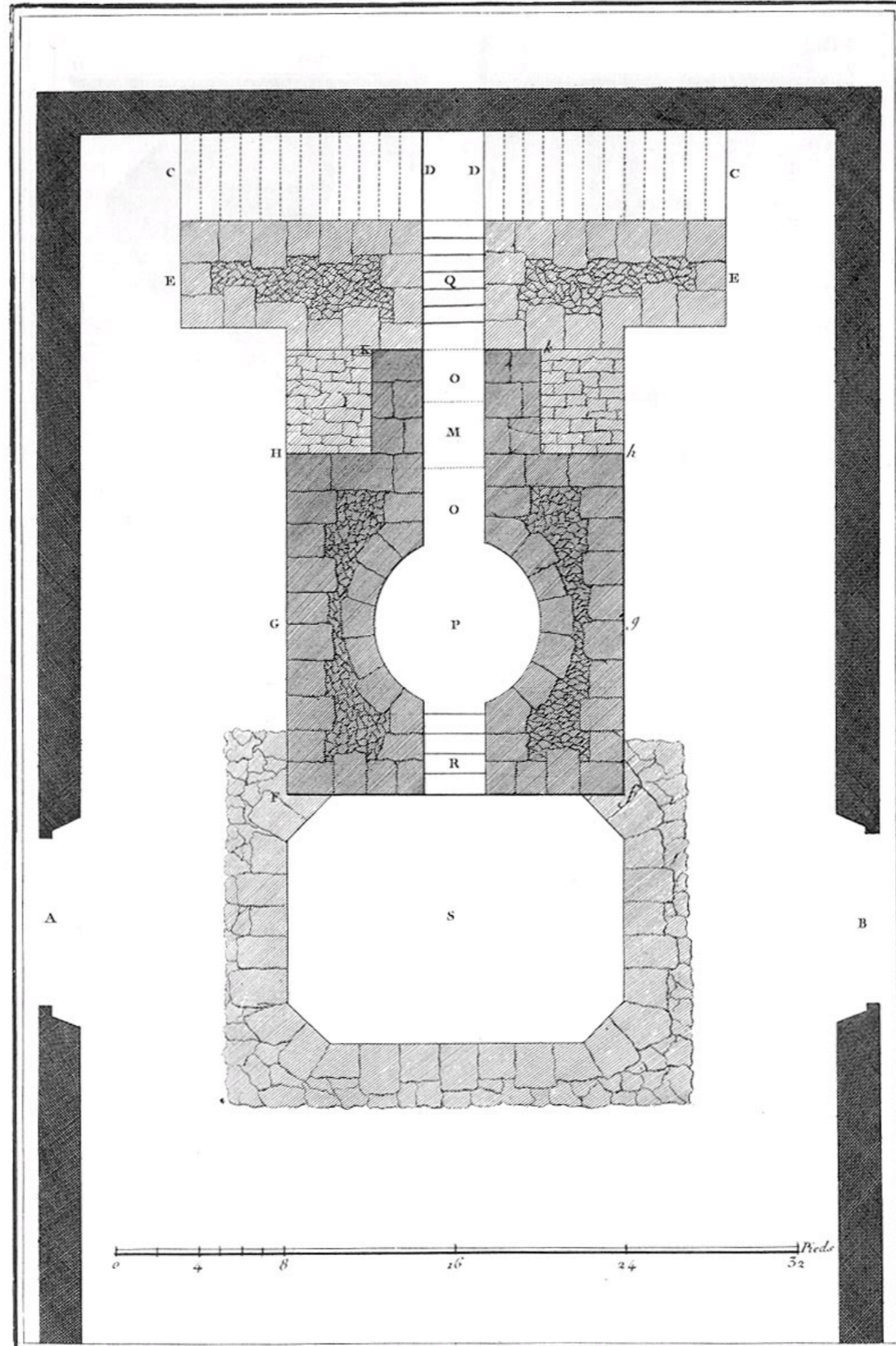
Published by G. Kearsly, N^o. 46 Fleet Street, as the Act directs Dec^r. 1. 1775.

“The Royal MILITARY ACADEMY at Woolrich”
by Paul Sandby 1775
(The British Museum)



The Old Royal Military Academy, from Price Rupert's Walk in Woolwich Warren
by Paul Sandby 1779
(The British Museum)

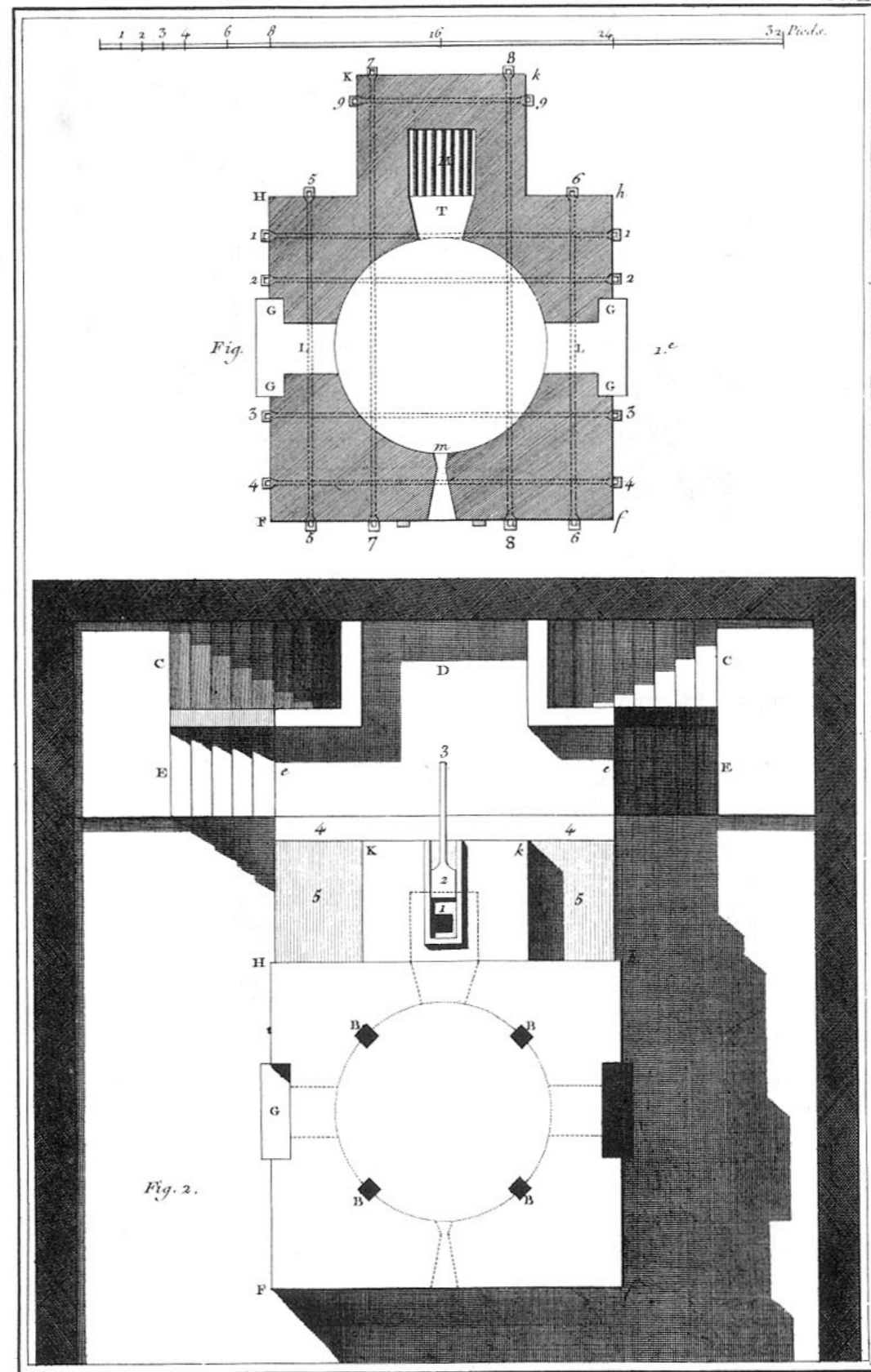
The Ordnance Plates of Dennis Diderot
The Encyclopédie by Diderot & d'Alembert
(University of Michigan)



Fonte des Canons.

Plan General de la fondation du Fourneau

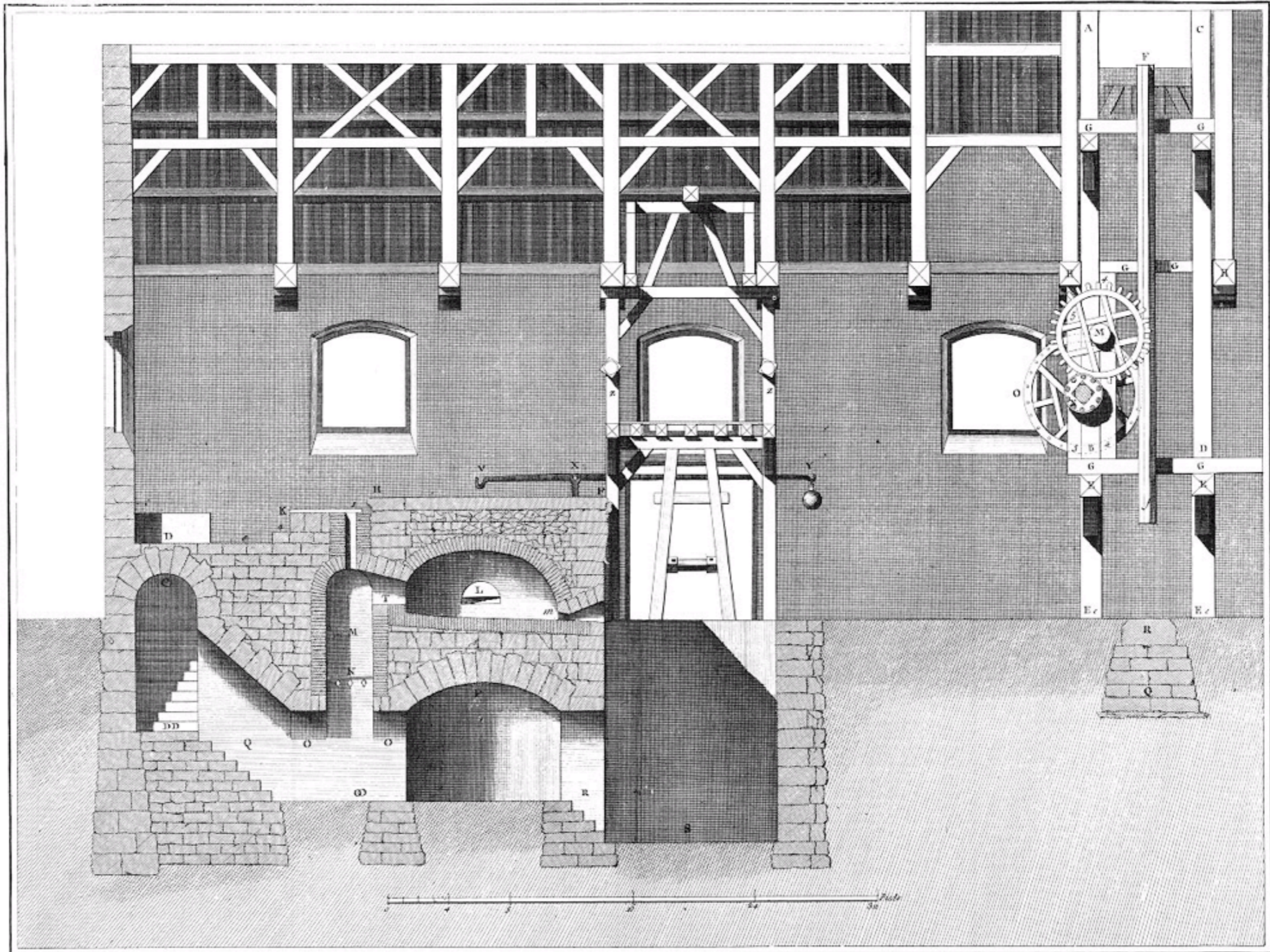
Plate I: Cannon Foundry, General Plan of the Foundation of the Oven



L'onte des Canons.

Plan au Rez de Chaussée du Mole du Fourneau, et Plan Général de son dessus.

Plate II: Cannon Foundry, Ground Floor Plan of the Oven and General Plan of Its Top

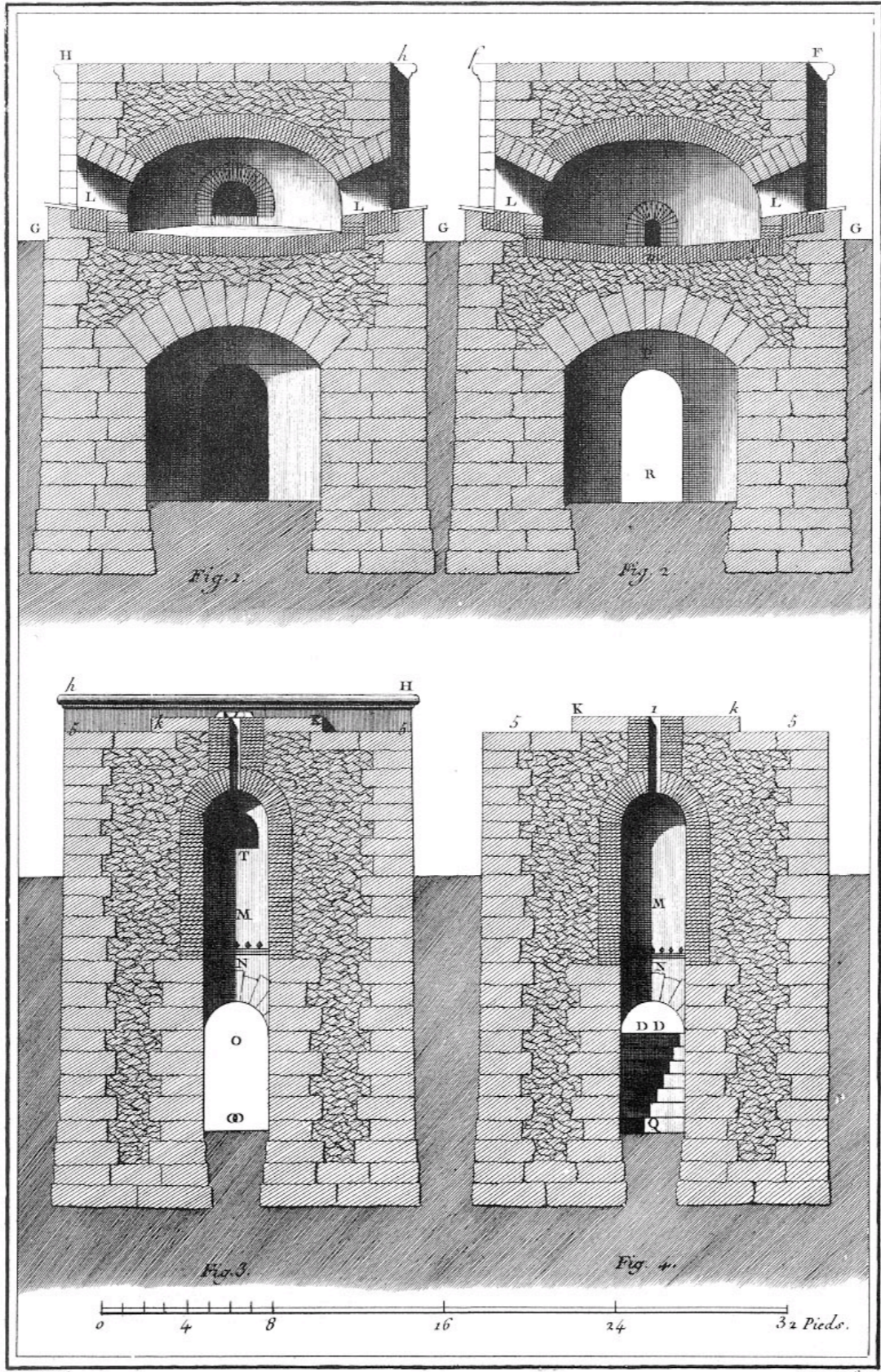


de la Fosse.

de la Fosse.

Fonte des Canons, coupe Longitudinale du Pourceau par sa Chauffe, coupe du Besseoy au dessus de la Fosse, et coupe de l'Alcoir.

Plate III: Cannon Foundry, Longitudinal View of the Oven from the Body, Cut View of the Frame Above the Pit and Cut View of the Borer



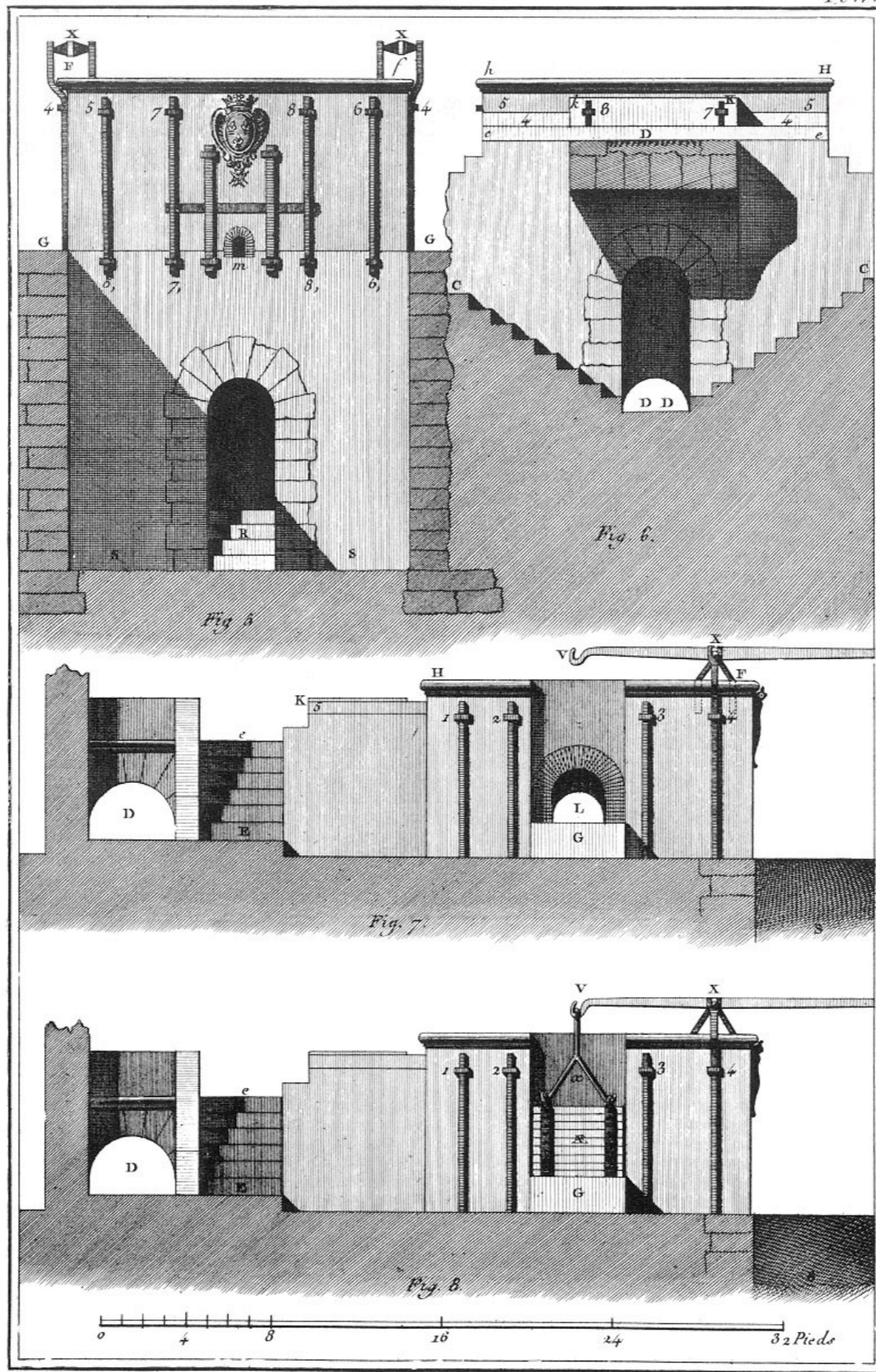
Goullier del.

Benard fecit

Fonte des Canons.

Coupes transversalles du Fourneau et Coupes transversalles de sa Chauffe.

Plate IV: Cannon Foundry, Transversal View of the Oven and Transversal Cut of its Body



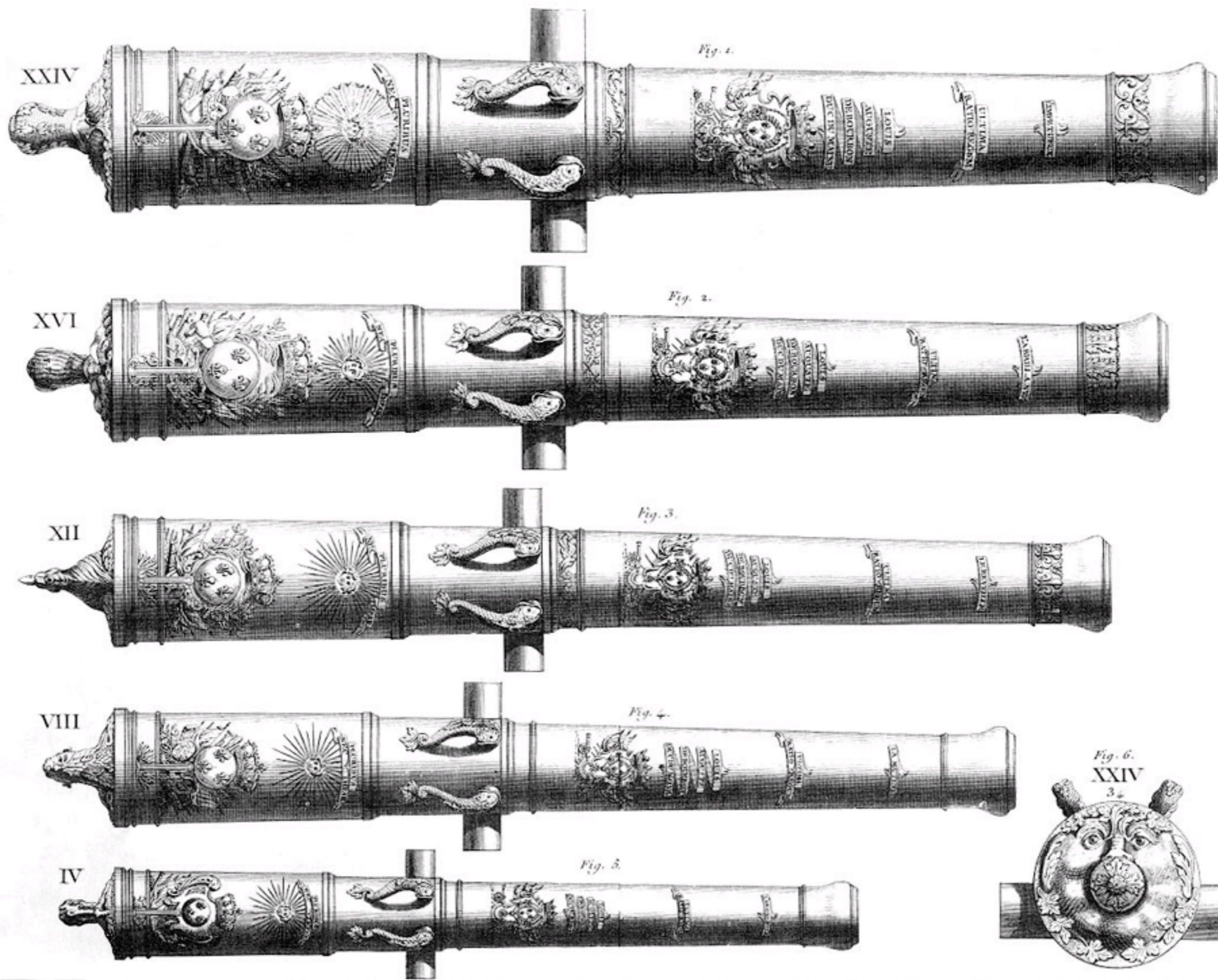
Goussier del.

Benard fecit

Fonte des Canons.

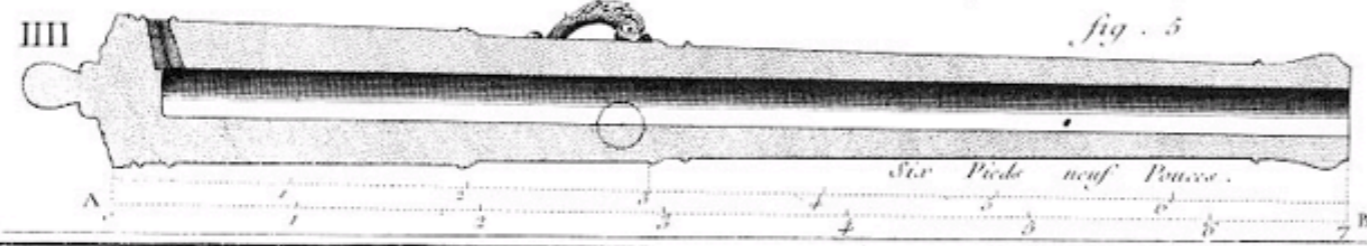
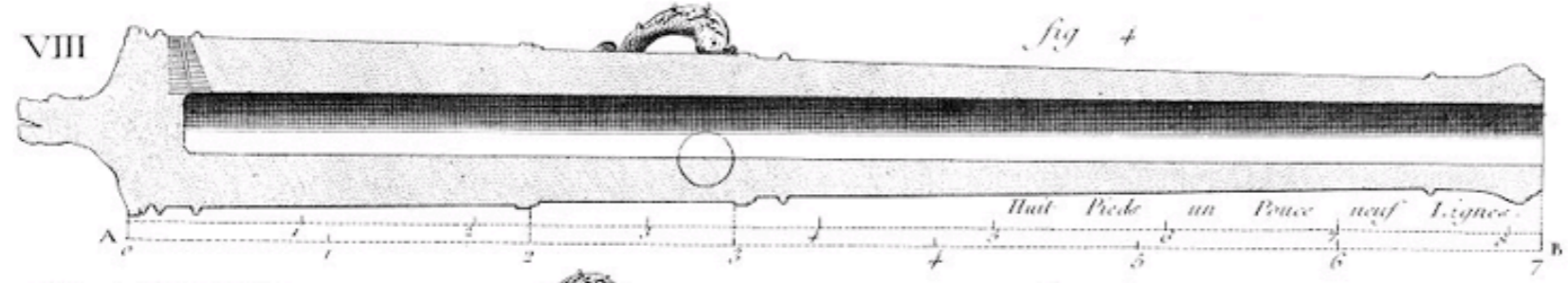
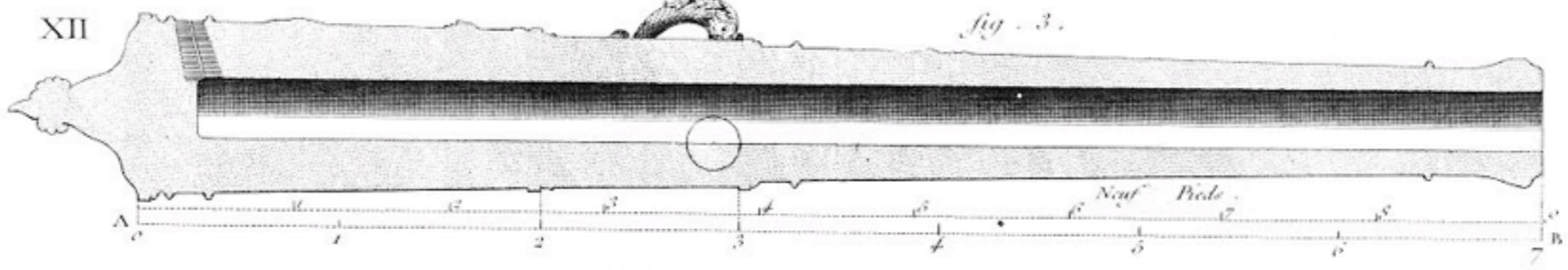
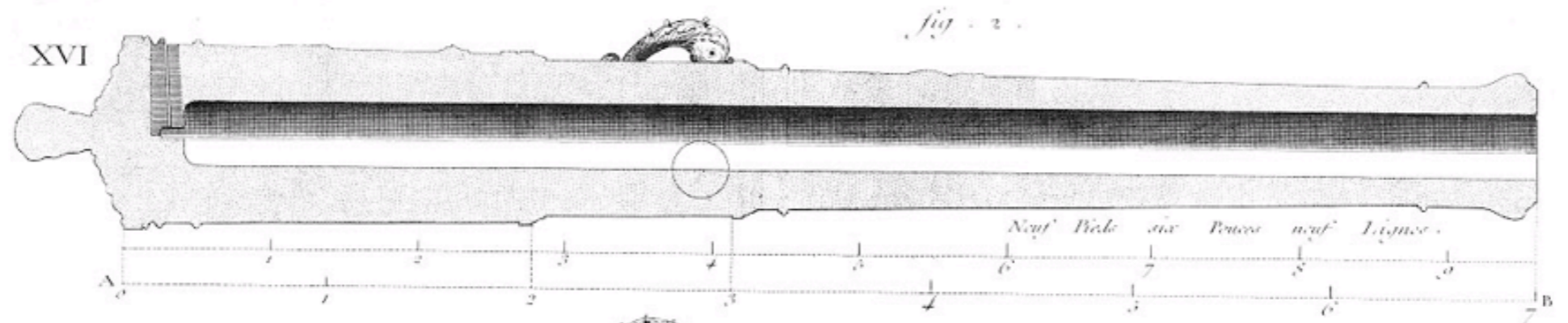
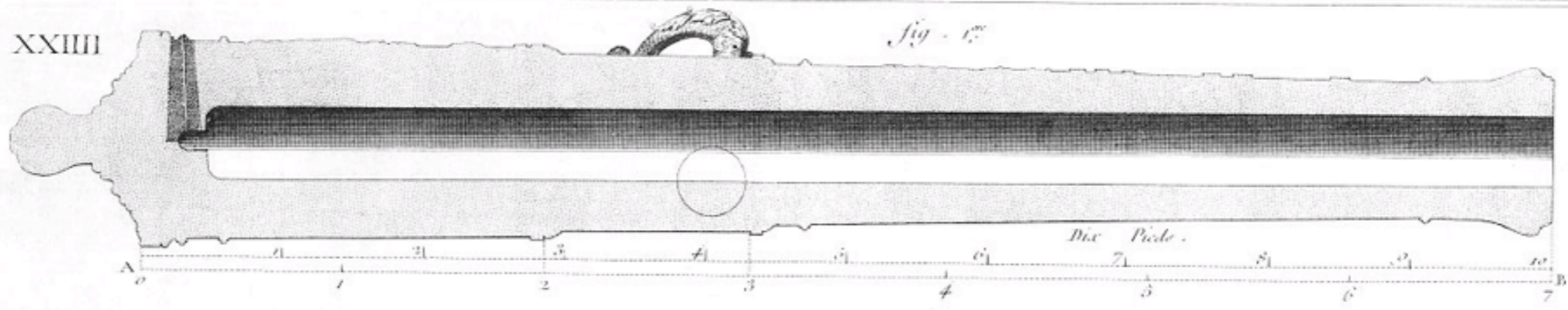
Elevations Anterieure et Posterieure du Fourneau et son Elevation Latérale.

Plate V: Cannon Foundry, Front and Back Elevation of the Oven, Lateral Elevation



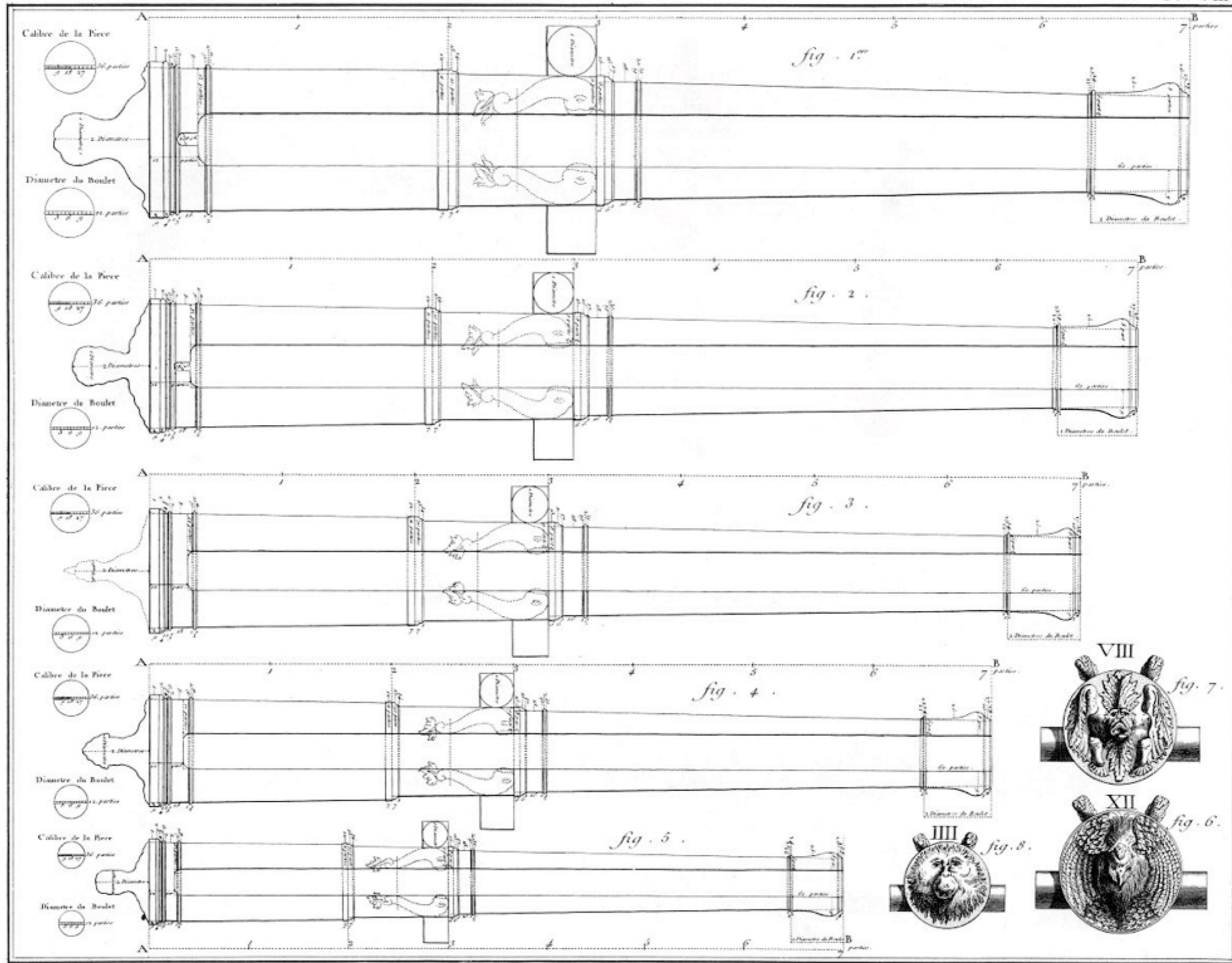
Fonte des Canons, Plans des Pieces des Cinq Calibres de l'Ordonnance.

Plate VI: Cannon Foundry, Plan of the Pieces of Cannon of the Five Calibers of the Ordinance



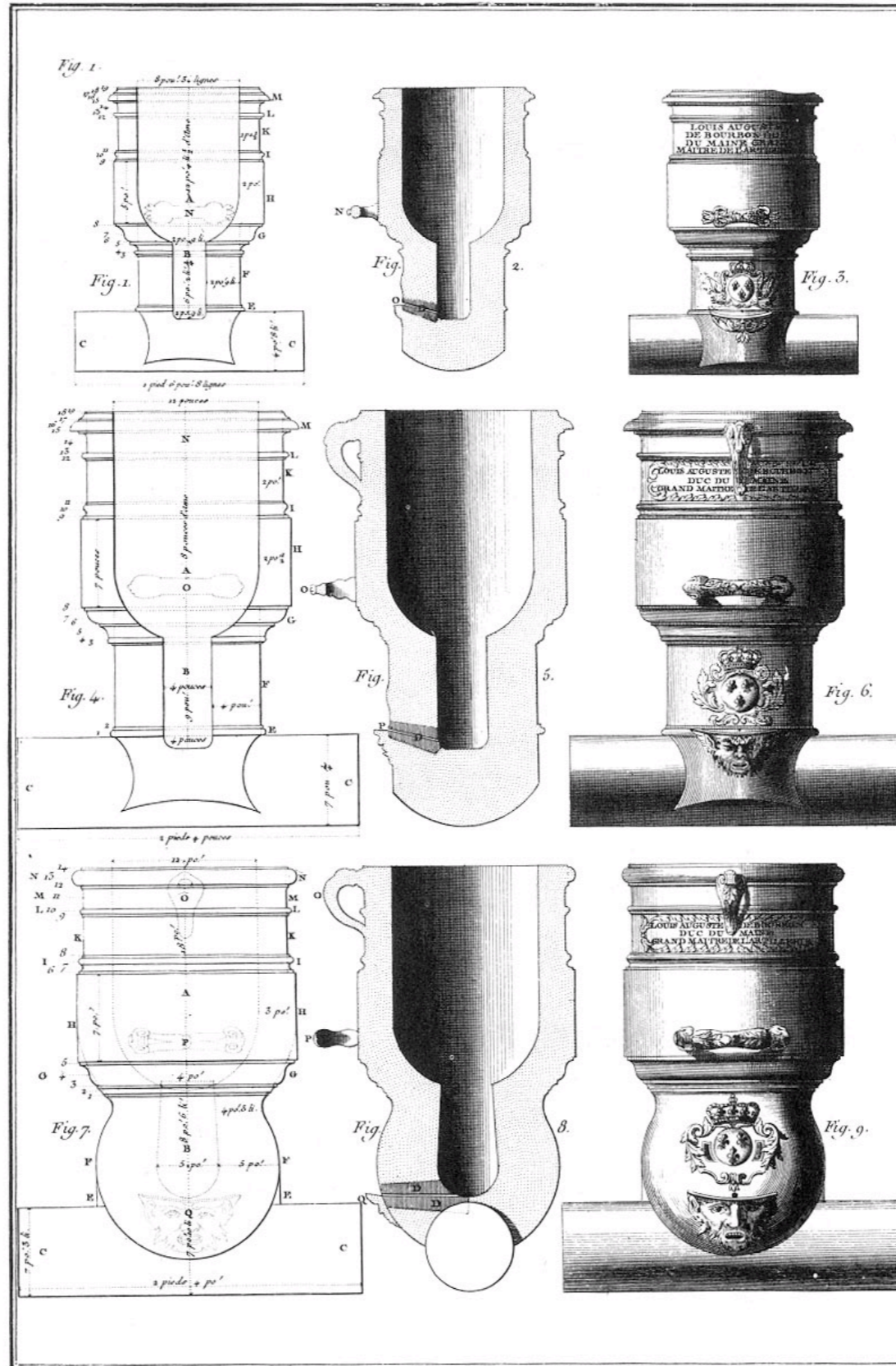
Fonte des Canons, Coupes des Cinq Calibres de l'Ordonnance.

Plate VII: Cannon Foundry, Cut View of the Five Calibers of the Ordinance



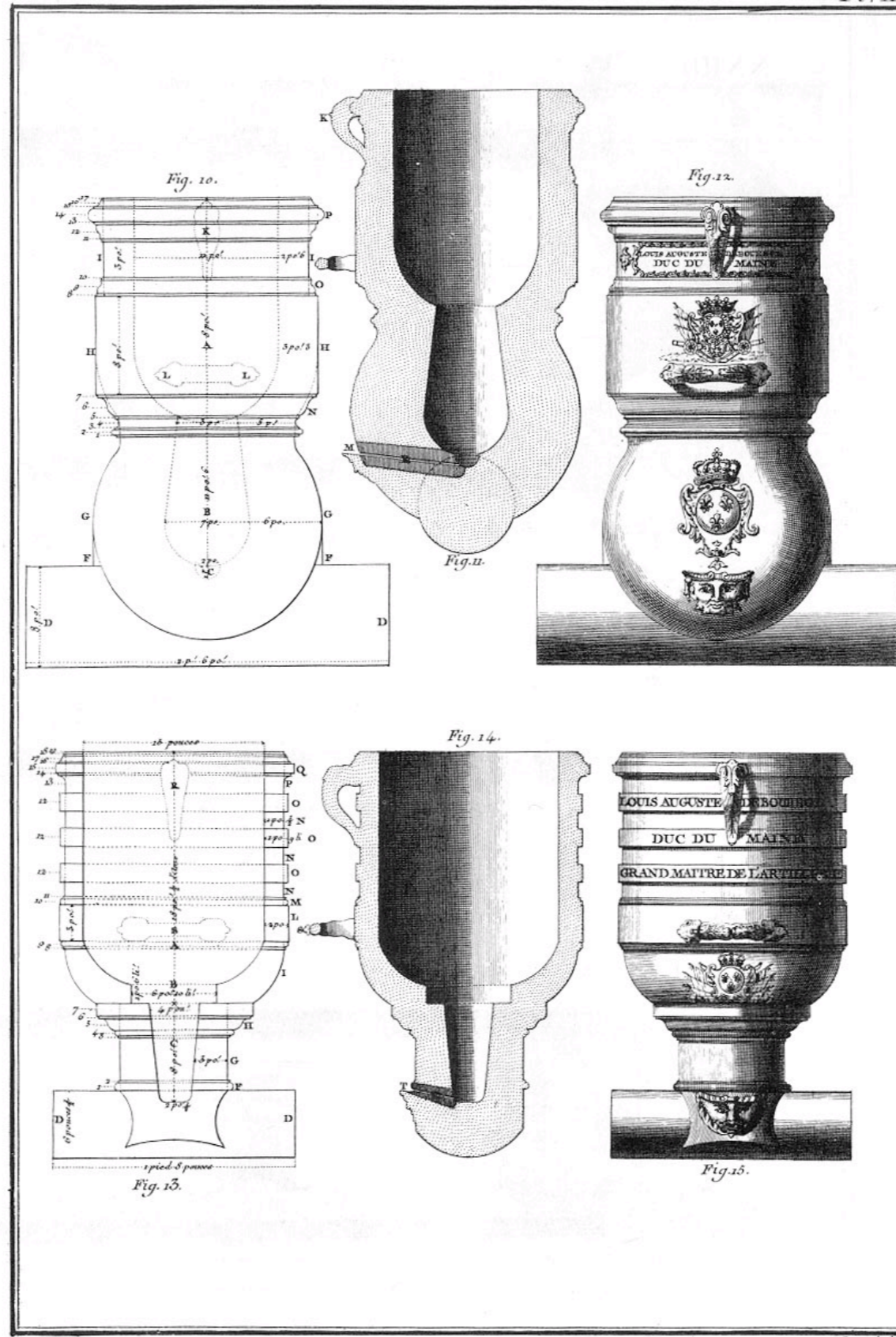
Fonte des Canons, Epreuves des Cinq Calibres de l'Ordonnance.

Plate VIII: Cannon Foundry, Working Design of the Five Calibers of the Ordinance



*Fonte des Canons.
Epures, Coupes, et Plans de Mortiers suivant l'Ordonnance.*

Plate IX: Cannon Foundry, Working Design, Cut View and Plan of Mortars According to the Ordinance



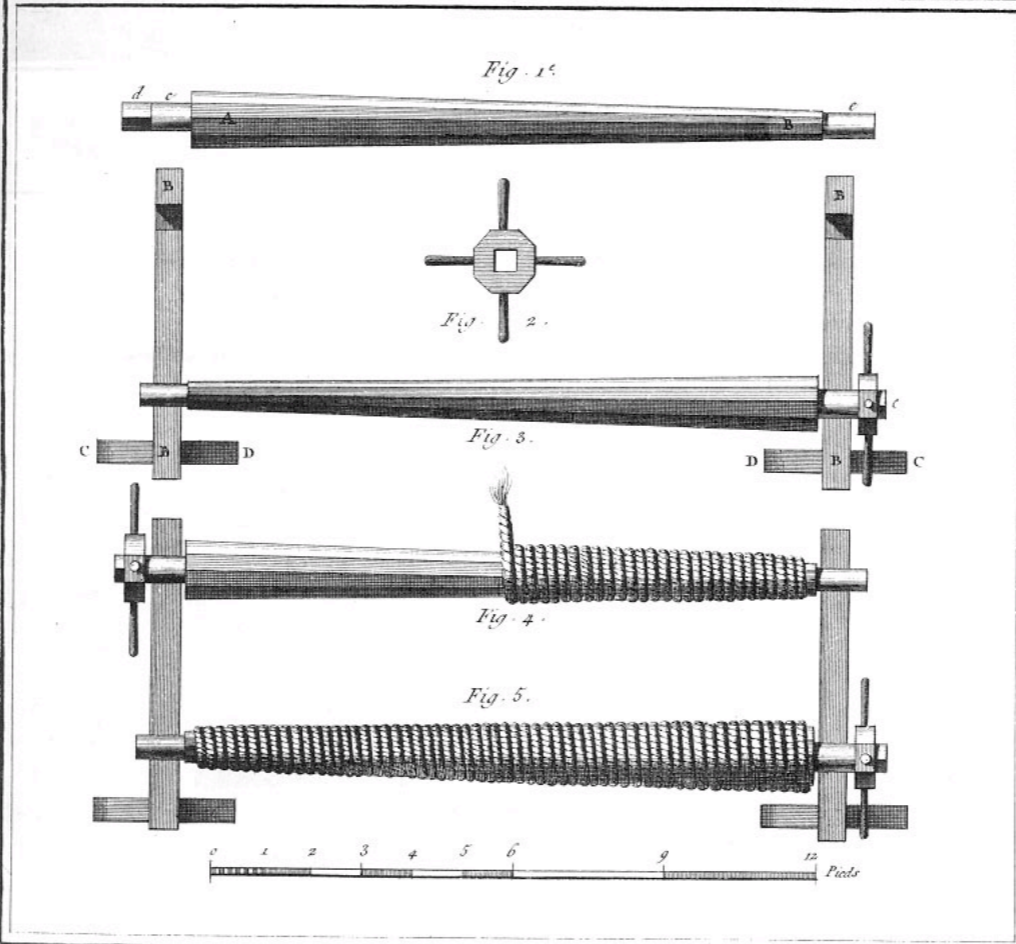
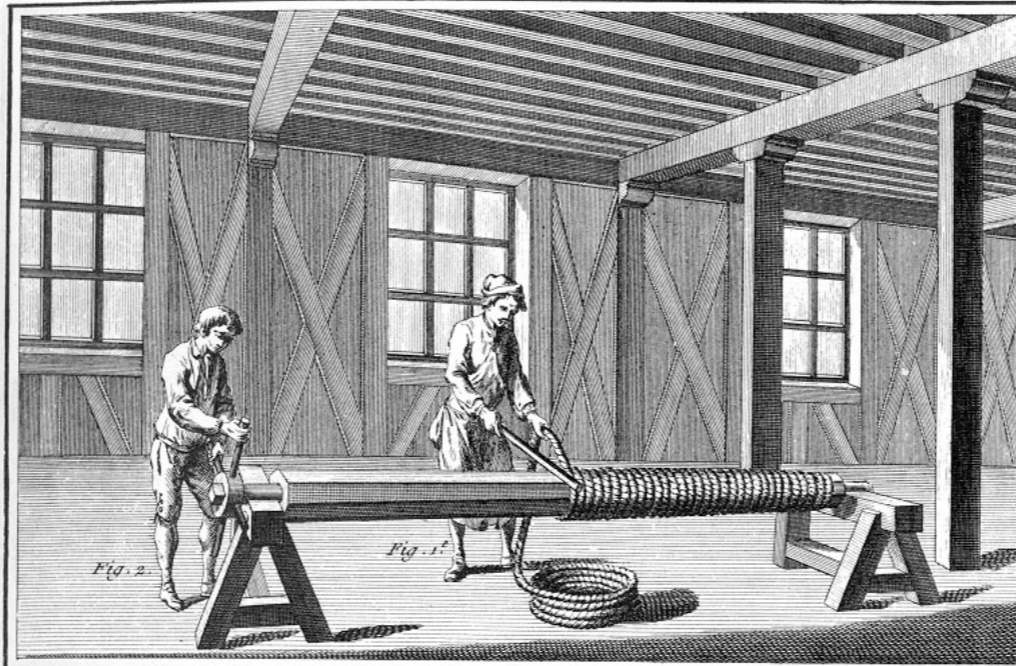
Donner del.

Bonard fecit

Fonte des Canons.

Epure, Coupes, et Plans des Mortiers et Pierriers suivant l'Ordonnance.

Plate X: Cannon Foundry, Working Design, Cut View and Plan of Mortars and Pierriers According to the Ordinance

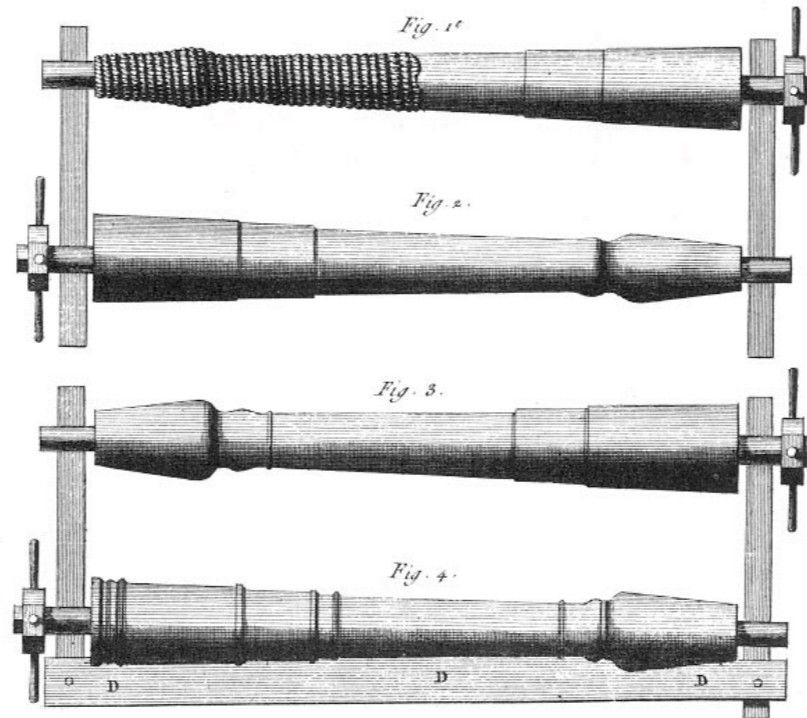
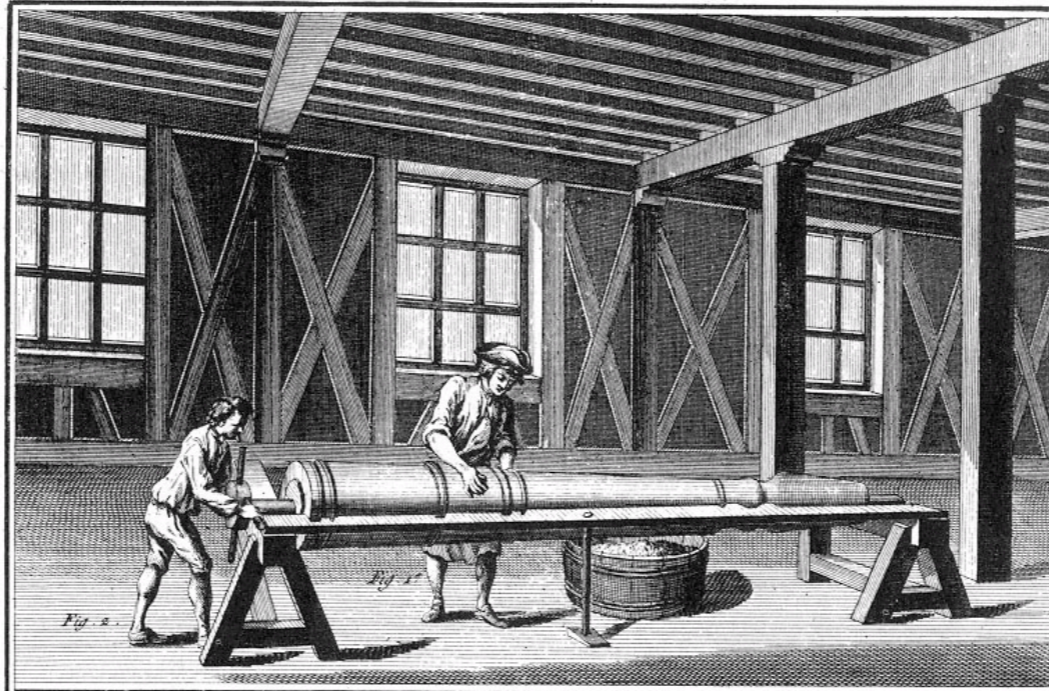


Goussier del.

Benard fecit.

Fonte des Canons
l'opération de charger le trousseau de Torches ou Nattes .

Plate XI: Cannon Foundry, Operation of Loading the Spindle With Torches or Matting

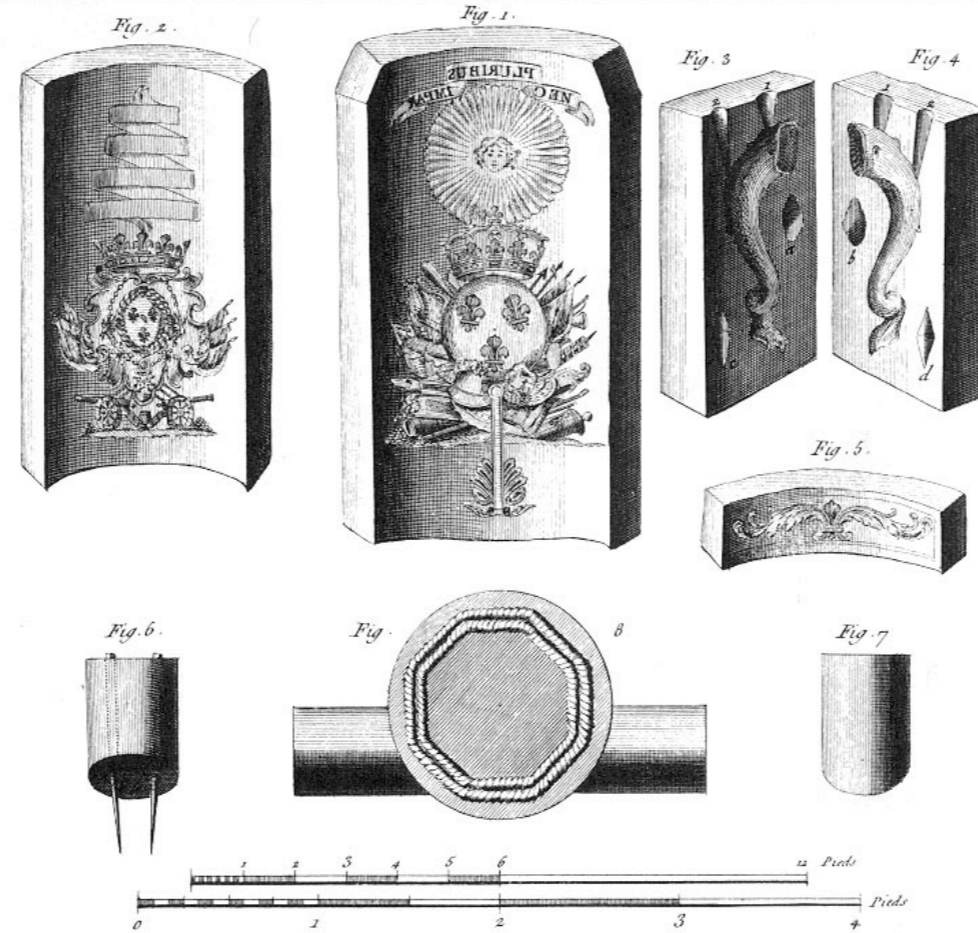
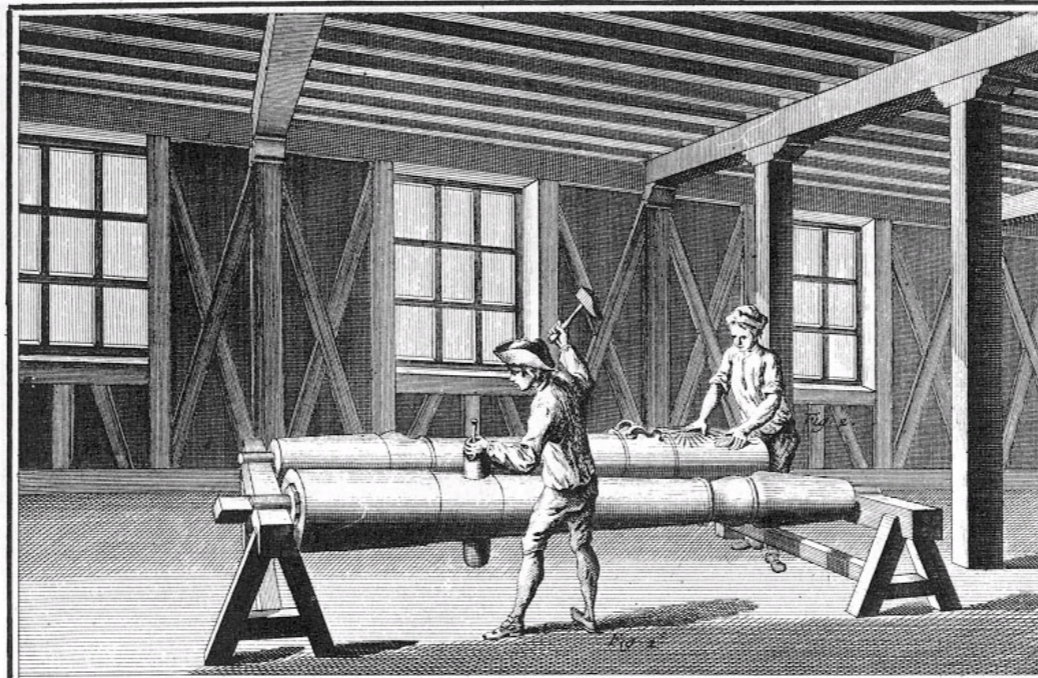


Voyeur del.

Bernard fecit.

*Fonte des Canons,
 l'Operation de coucher la Terre sur les Nattes et de la former à l'Echantillon.*

Plate XII: Cannon Foundry, Operation of Laying Clay on the Matting and Shaping it with a Pattern



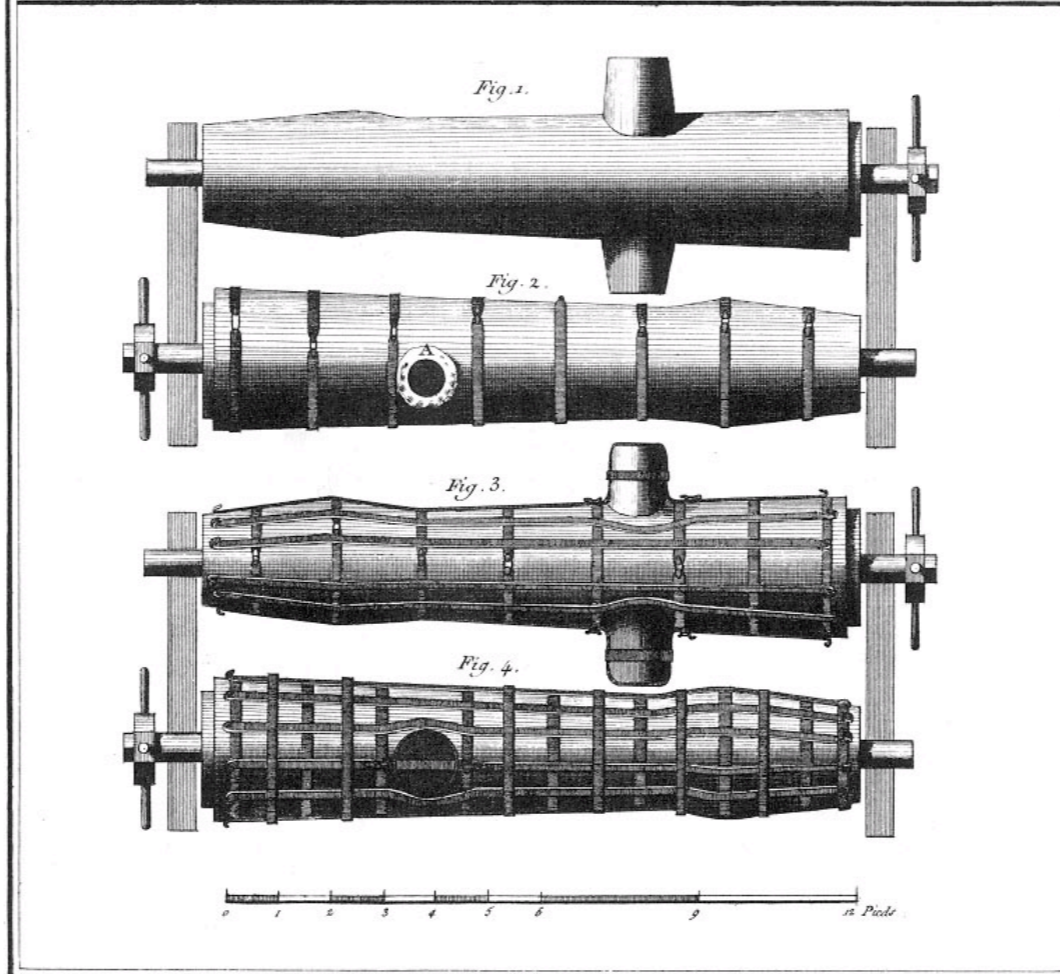
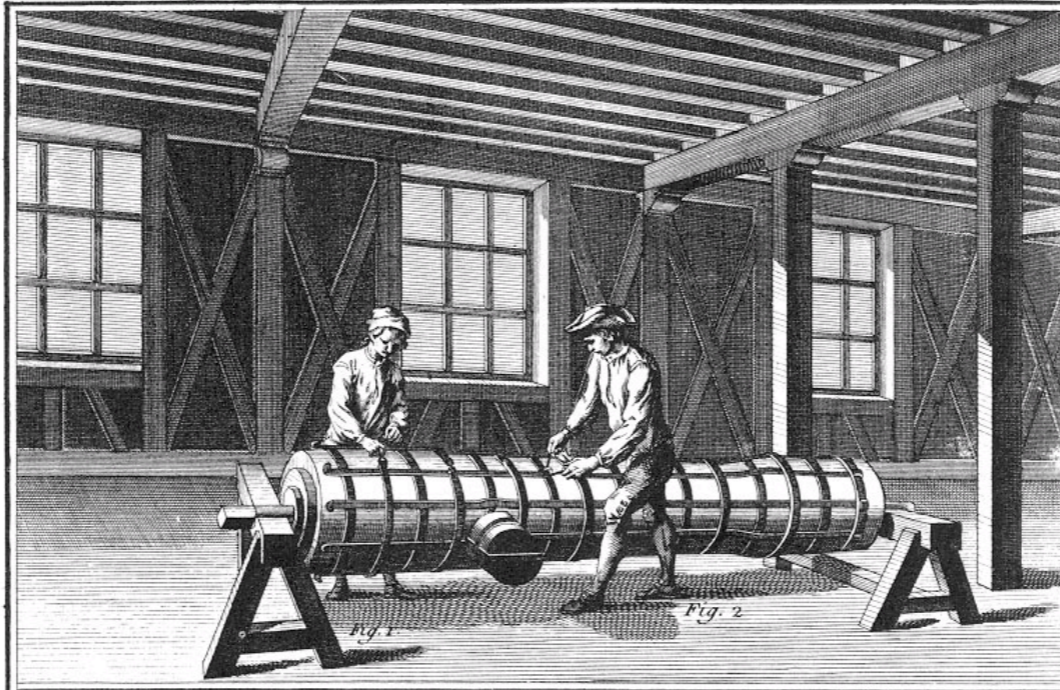
Boislier Del.

Benard Fecit.

Fonte des Canons

L'opération de poser les Tourillons et les Ornaments et les Mouldes des Ornaments.

Plate XIII: Cannon Foundry, Operation of Adding Trunnions and Ornaments of the Pieces

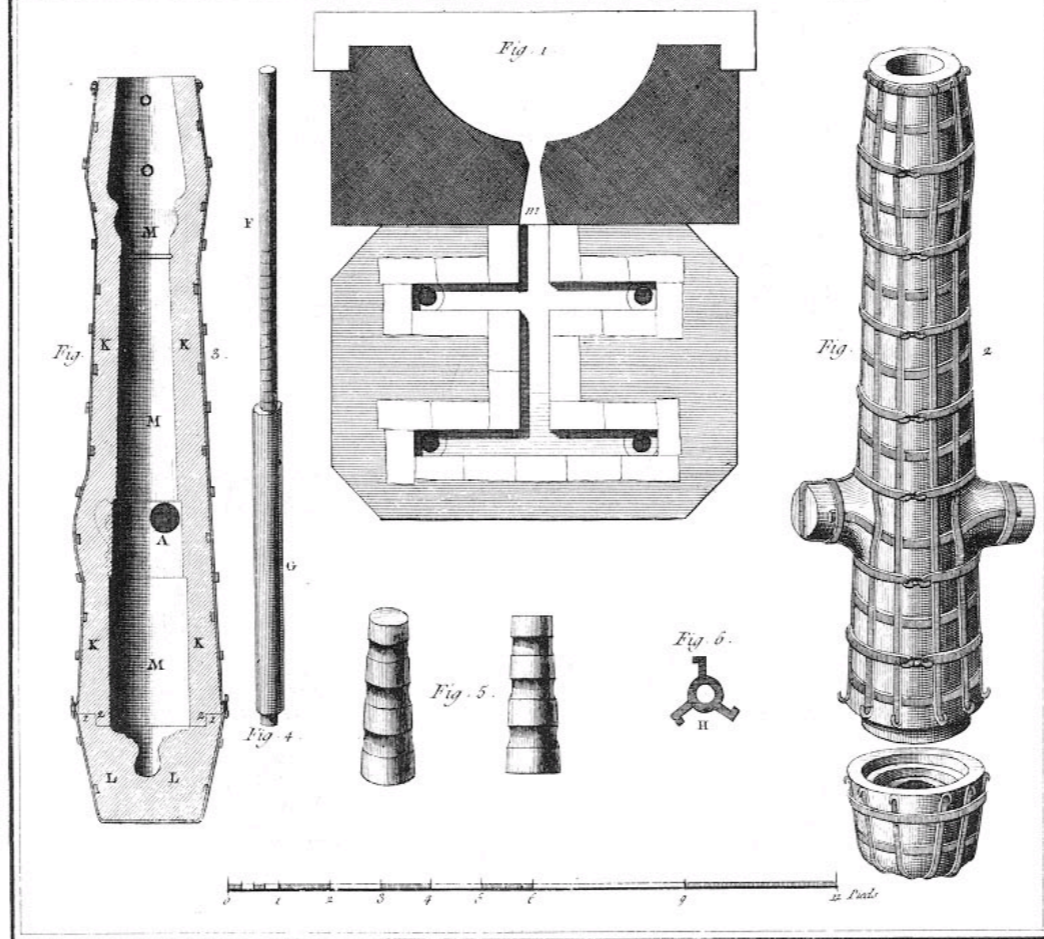
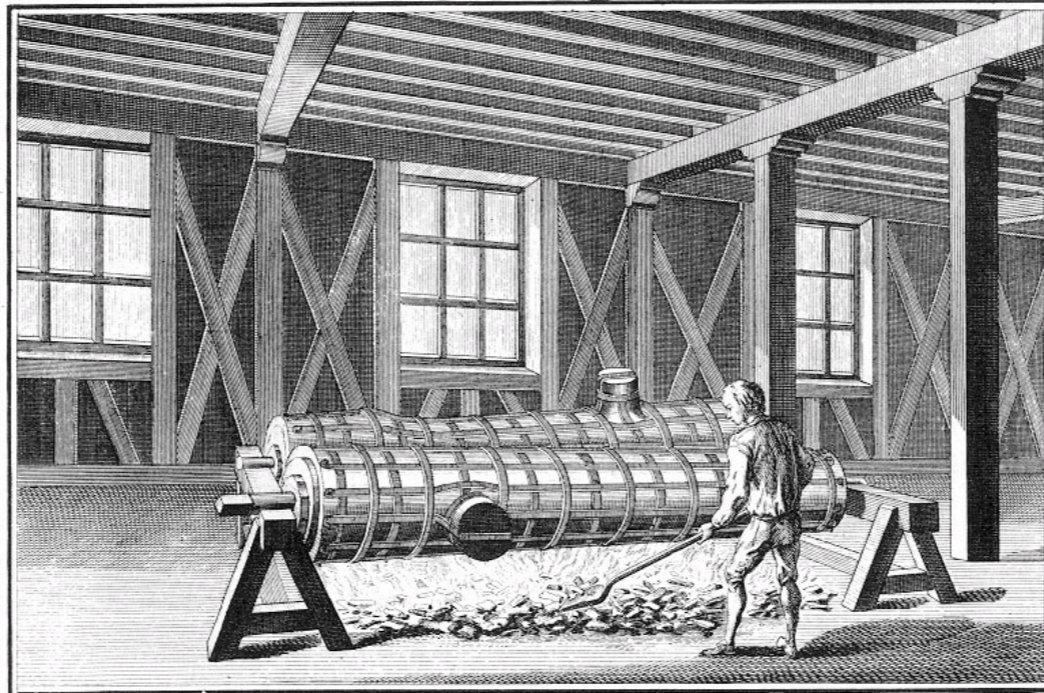


Goullier del.

Bonard, fecit.

*Fonte des Canons.
L'opération de faire la Chappe et d'y appliquer les Bandages.*

Plate XIV: Cannon Foundry, Operation of Making the Mold and Applying Bandages

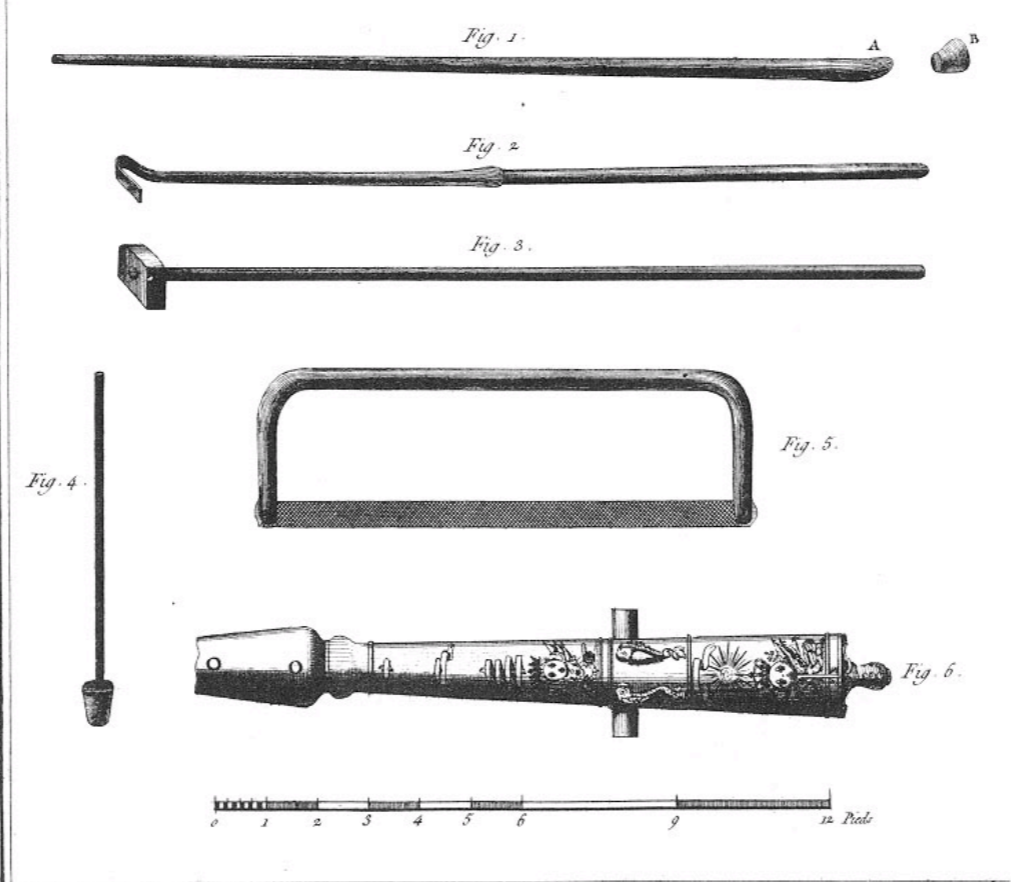
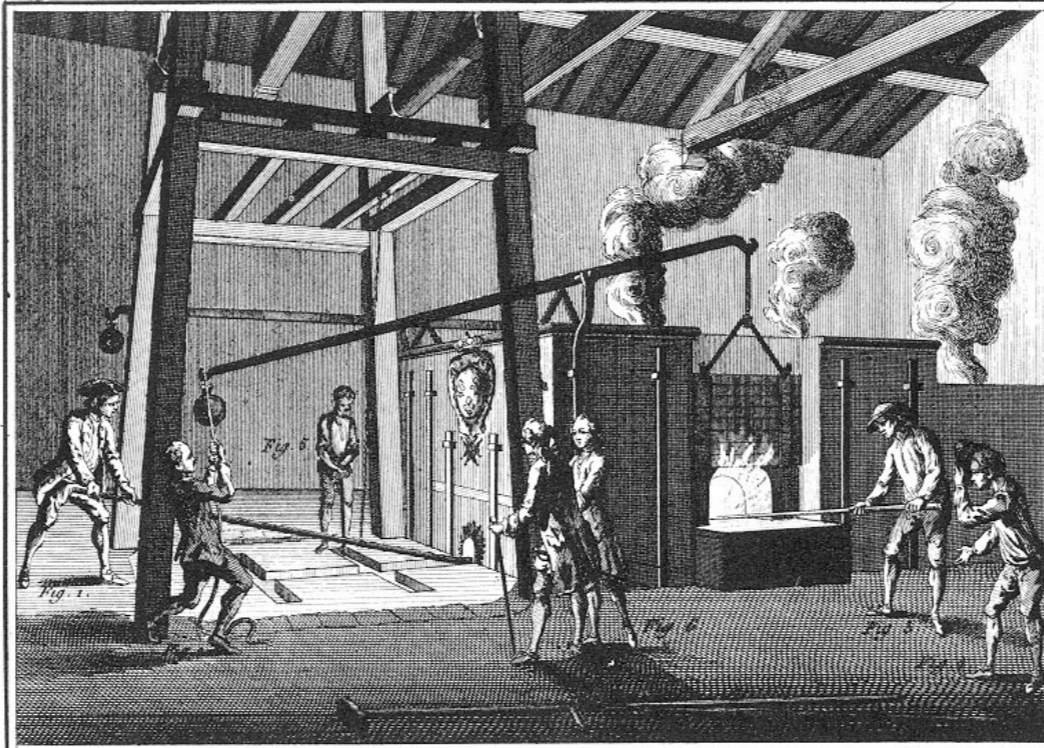


Gouffier del

Bonard fecit

*Fonderie des Canons,
l'opération de Secher les Moules, Plan de l'Échéno &c.*

Plate XV: Cannon Foundry, Operation of Drying the Mold, Plan of the Gutter, Etc.

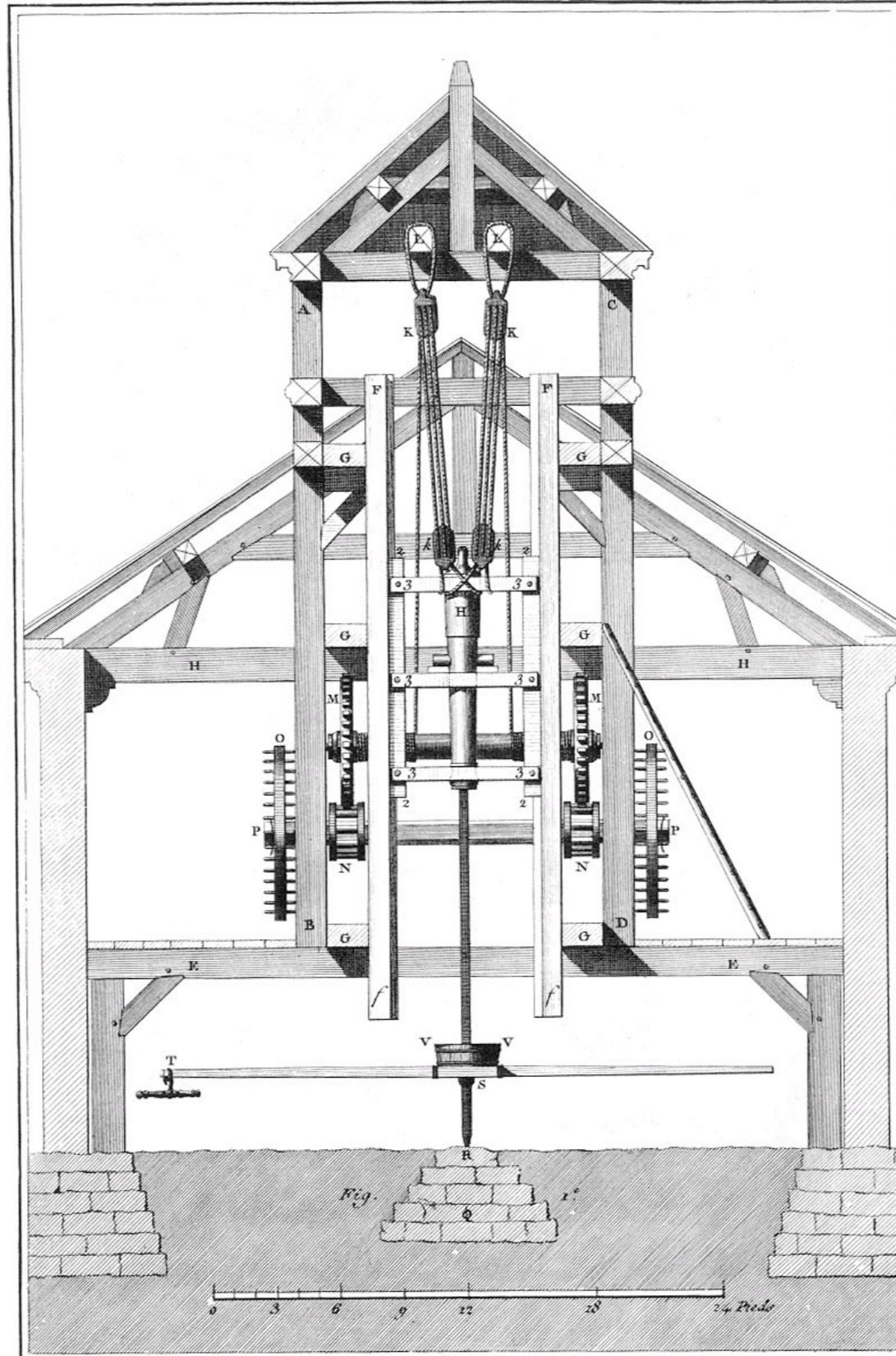


Goussier Del.

Benard fecit.

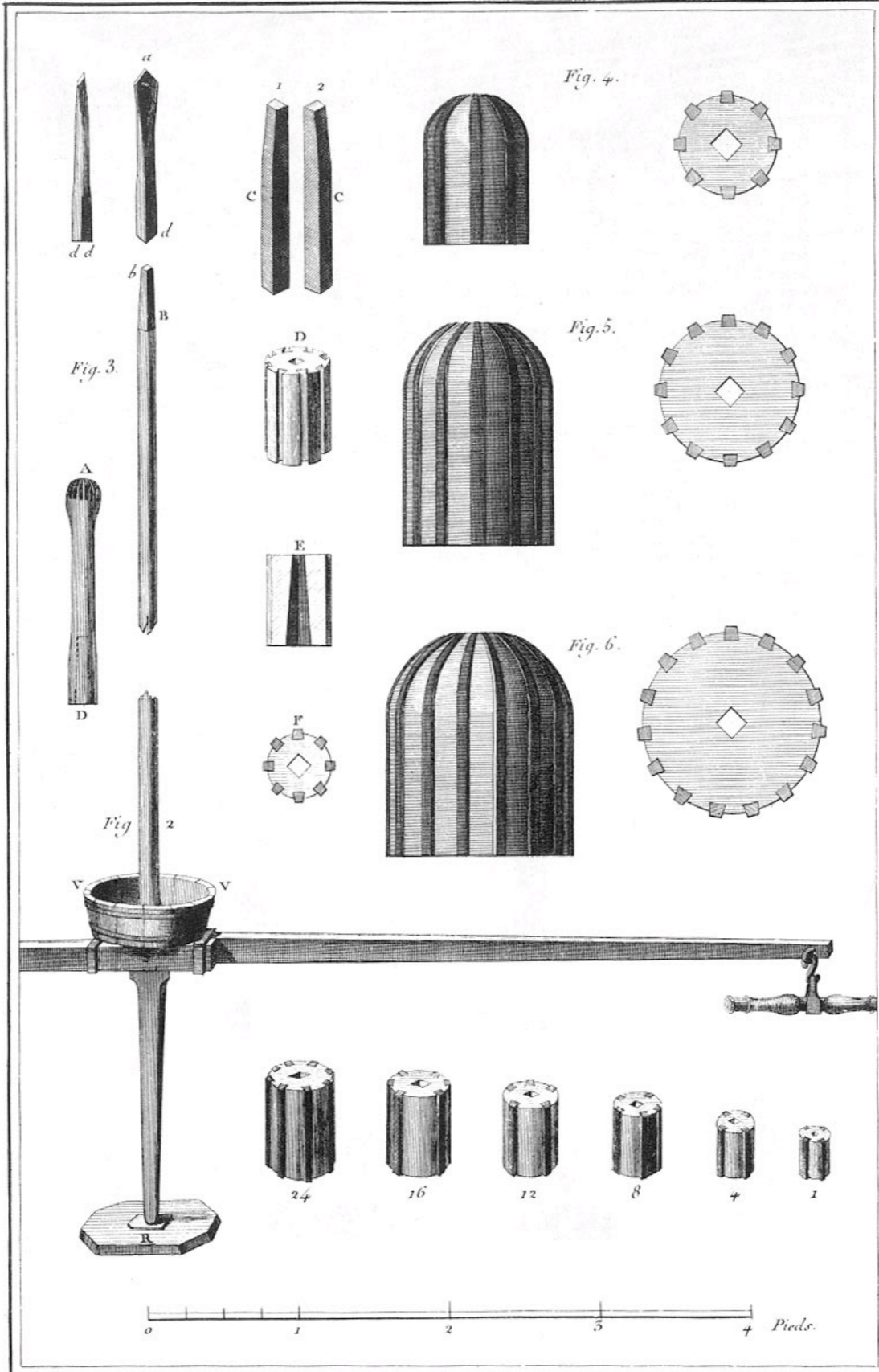
Fonte des Canons
l'Operation de couler le metal Fondu dans les moules.

Plate XVI: Cannon Foundry, Operation of Pouring Molten Metal in the Molds



*Fonte des Canons.
Élévation de l'Alézoir pour Forer et Alézer les Pièces.*

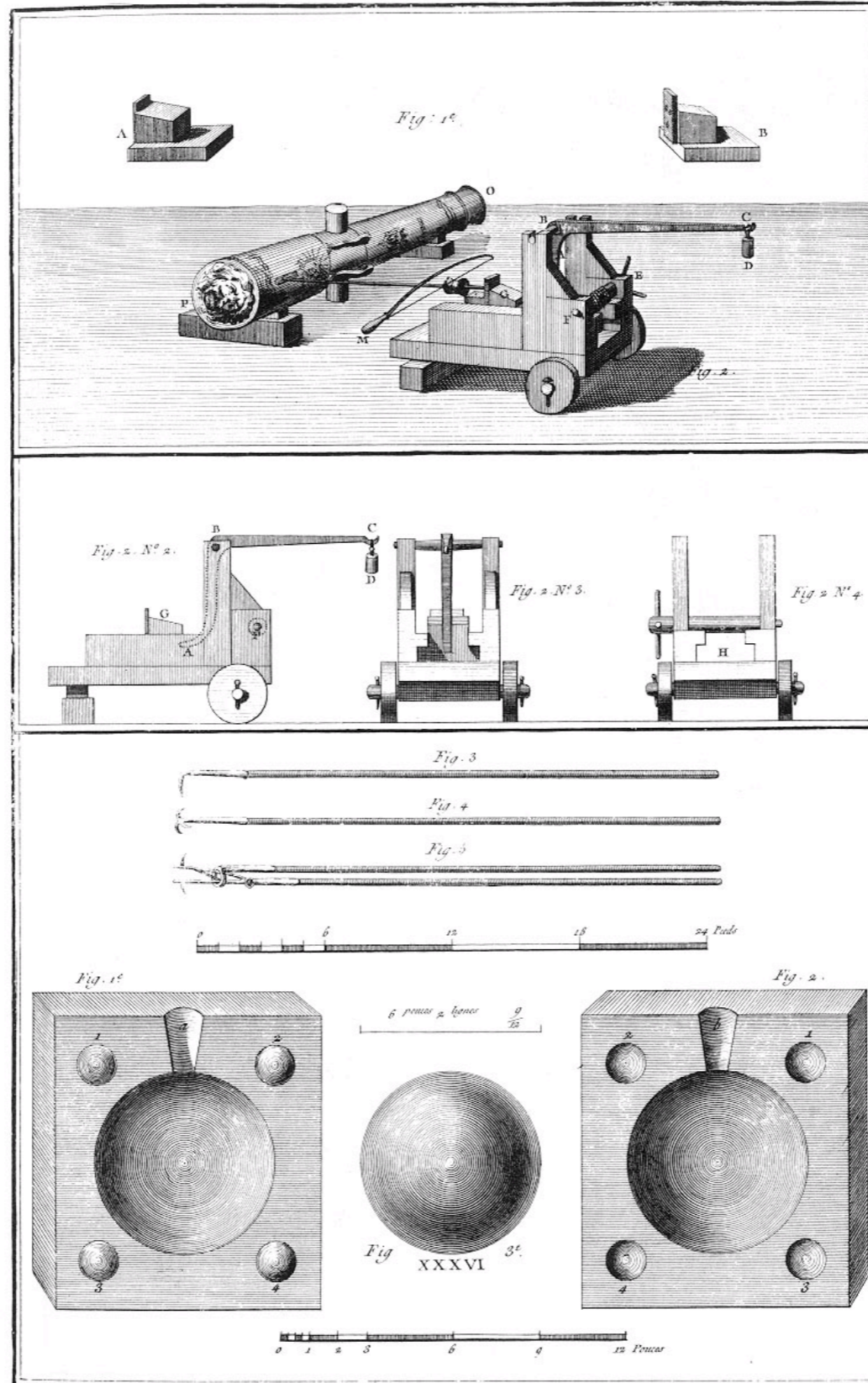
Plate XVII: Cannon Foundry, Elevation of the Borer to Drill and Bore the Pieces



Goussier del.

Bonard, fecit.

Fonte des Canons, Suite et Developemens de l'alézoir.

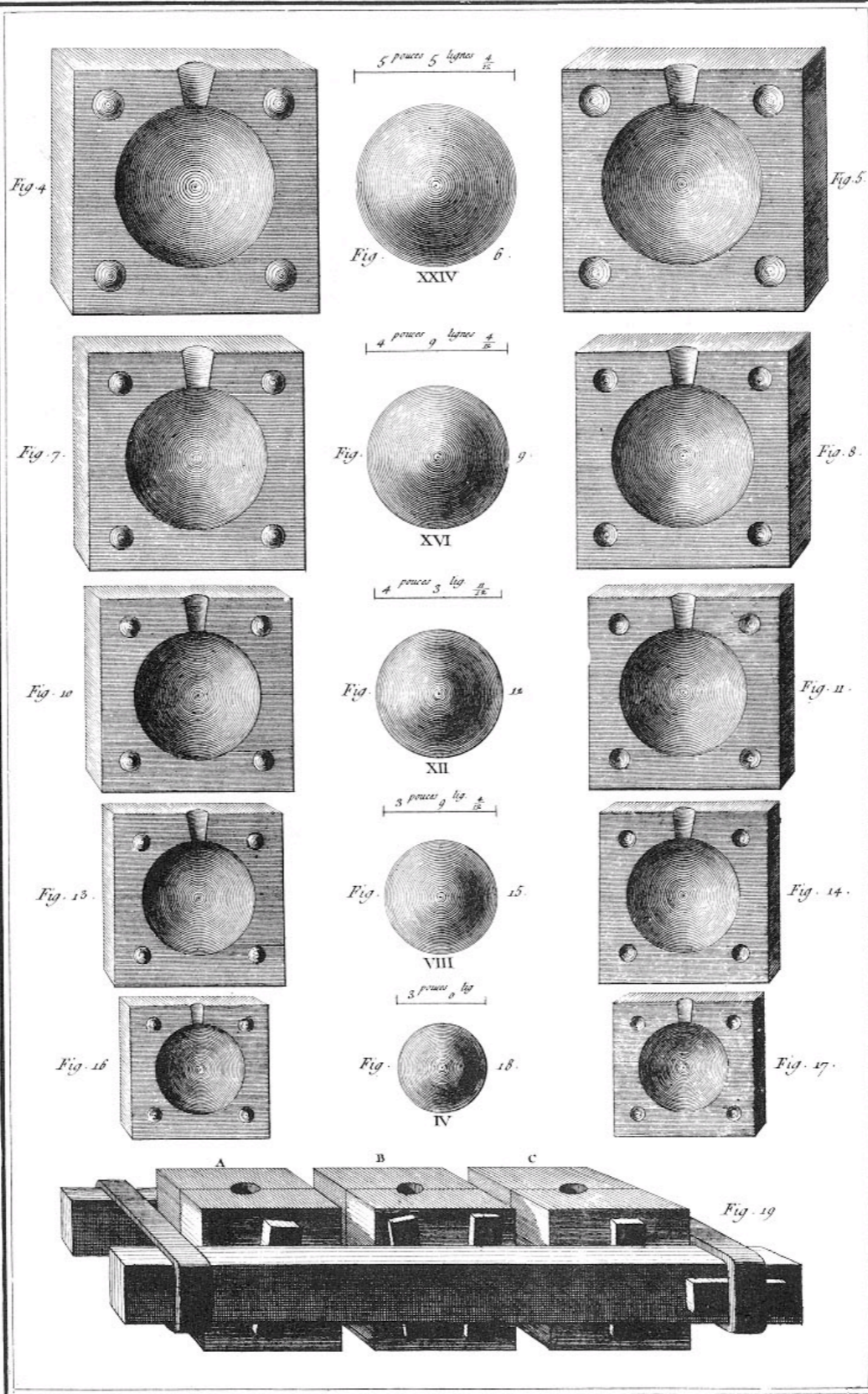


Bouffier Del.

Benard Fecit.

*Fonte des Canons. Basculle pour percer les lumieres.
Crochets et Chat, Moule pour fondre les Boulets de 36^l.*

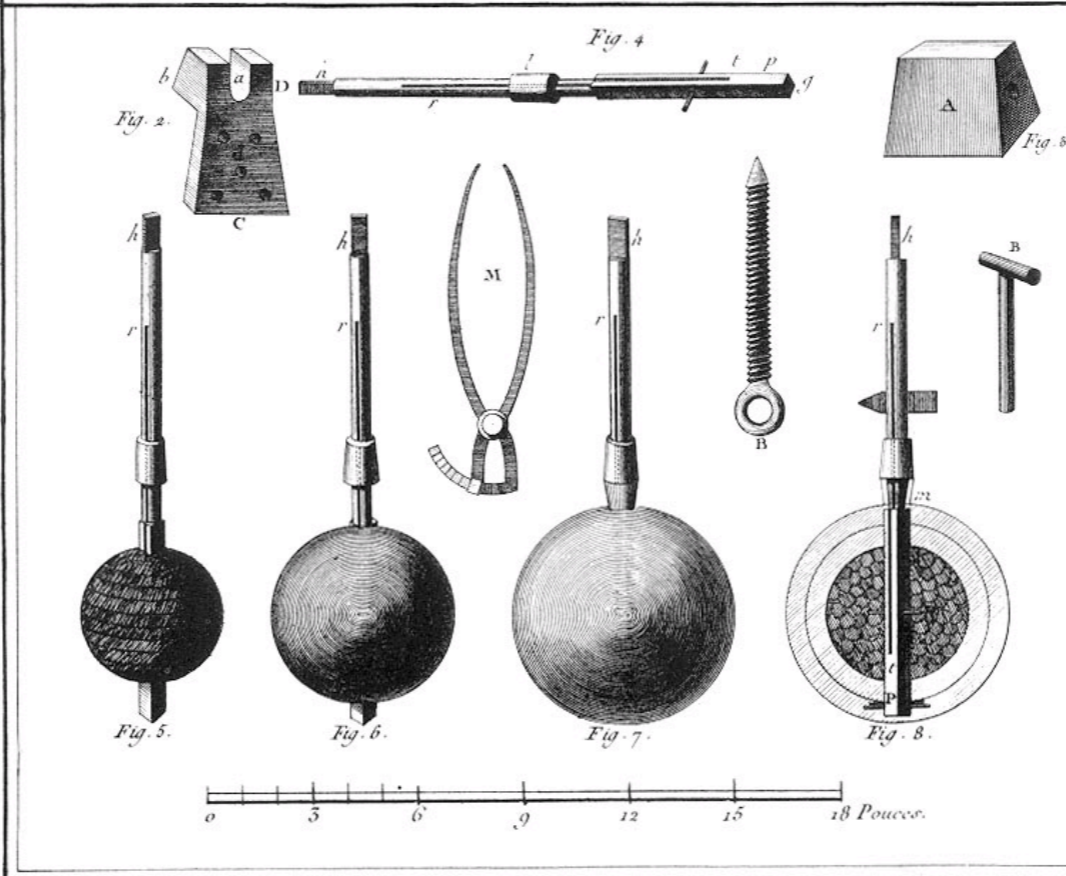
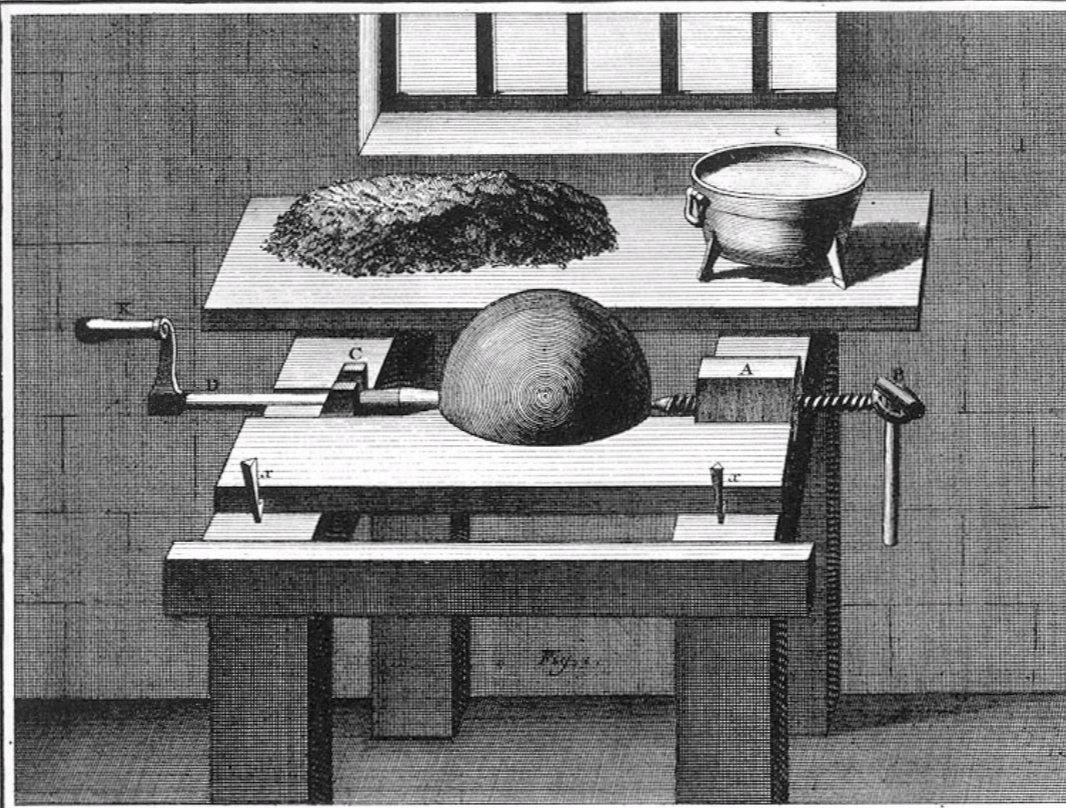
Plate XIX: Cannon Foundry, Lever to Make the Touch Holes, Hooks, Searcher, Mold to Cast 36 Pound Cannon Balls



Goussier Del. Benard Sculp.

Fonte des Canons, Moules pour fondre les Boulets
des cinq Calibres de l'Ordonnance de 1732.

Plate XX: Cannon Foundry, Molds to Cast Cannon Balls of the Five Calibers of the Ordinance



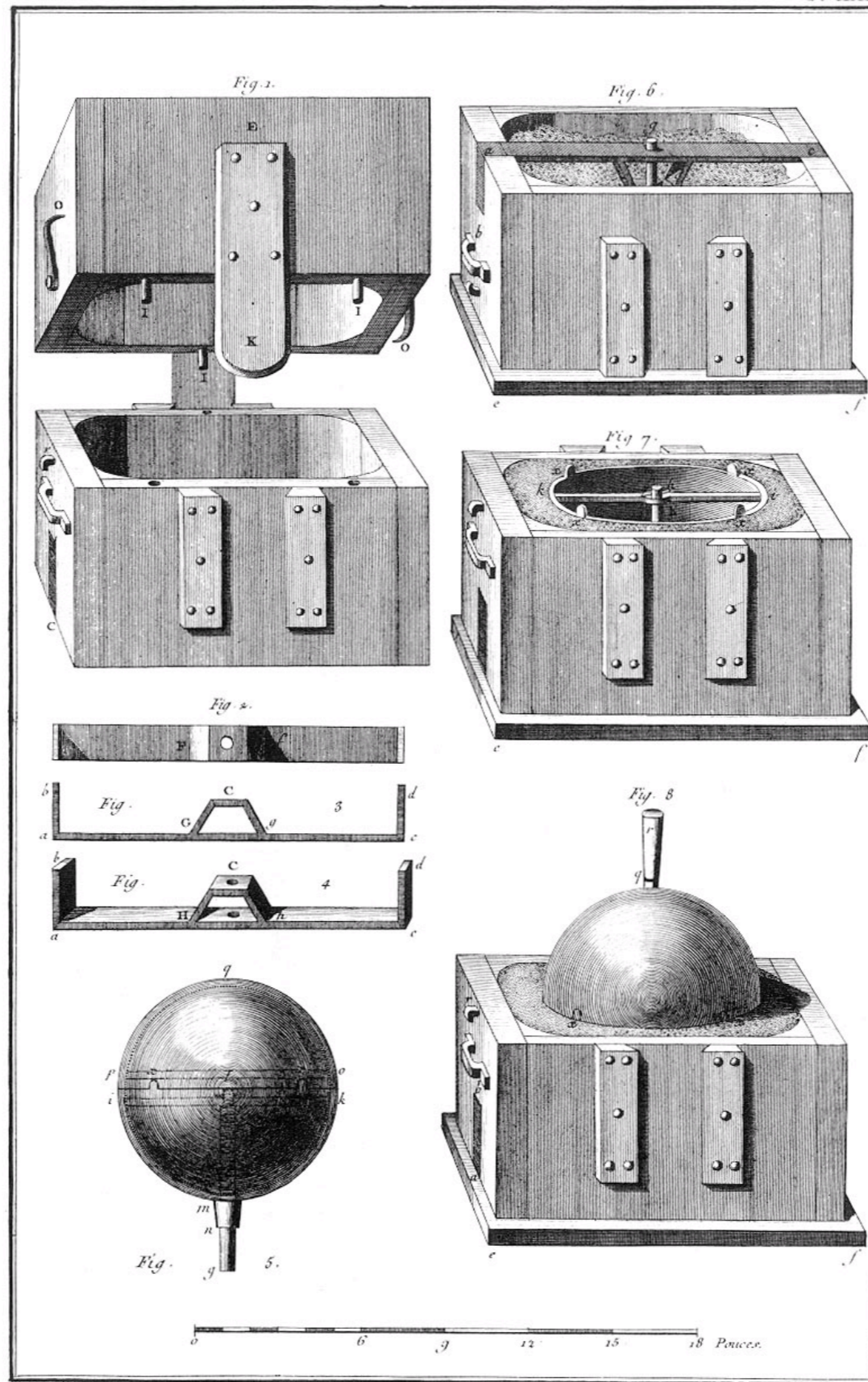
Gouffier del.

Benard fecit.

Fonte des Canons.

L'Art de Moulder les Bombes en Sable.

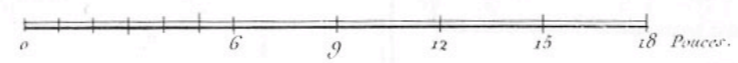
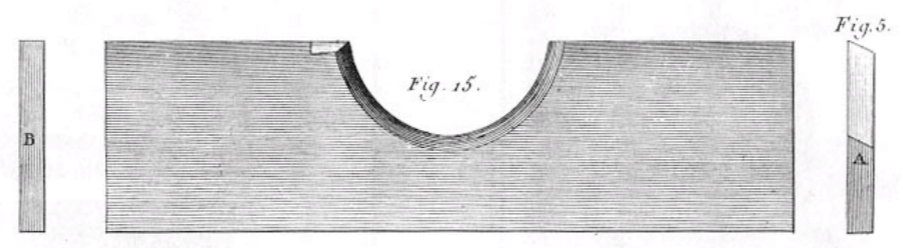
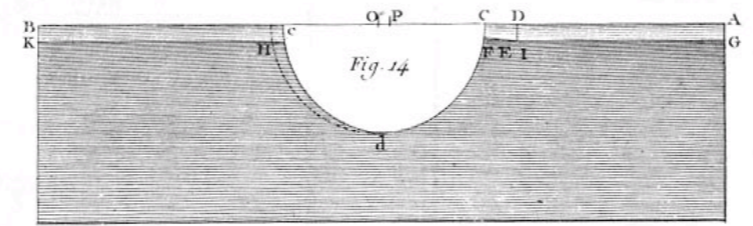
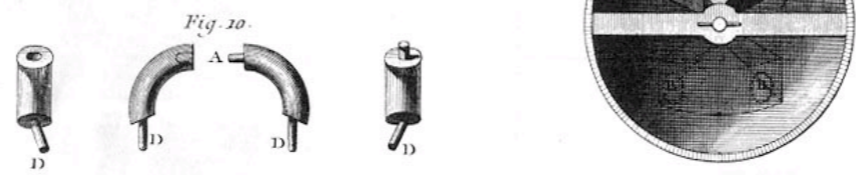
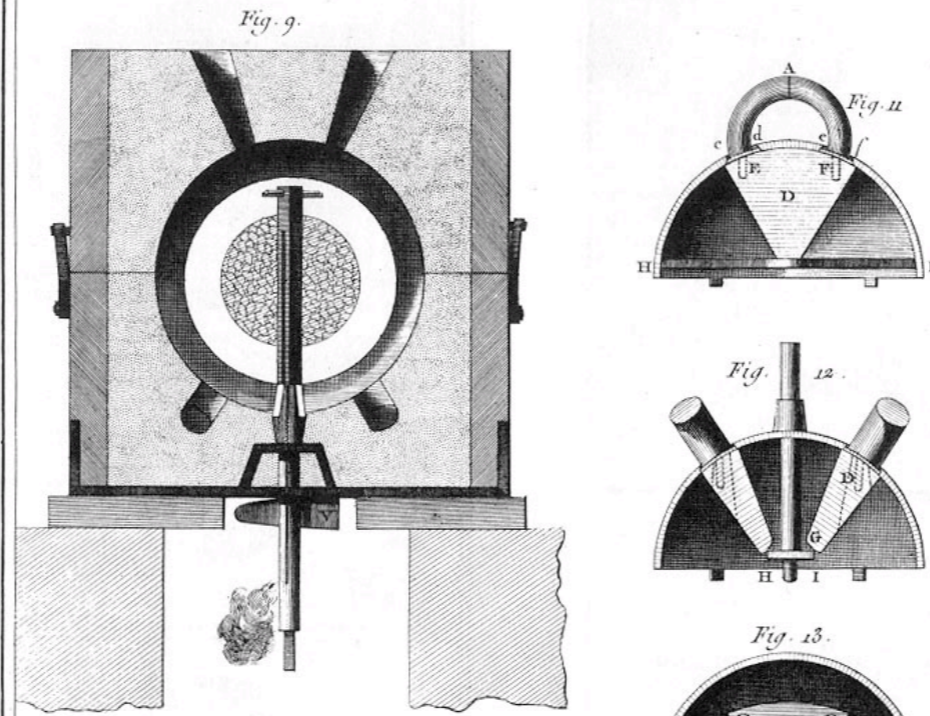
Plate XXI: Cannon Foundry, The Art of Molding Balls in Sand



Gouffier del.

Bonard sculp.

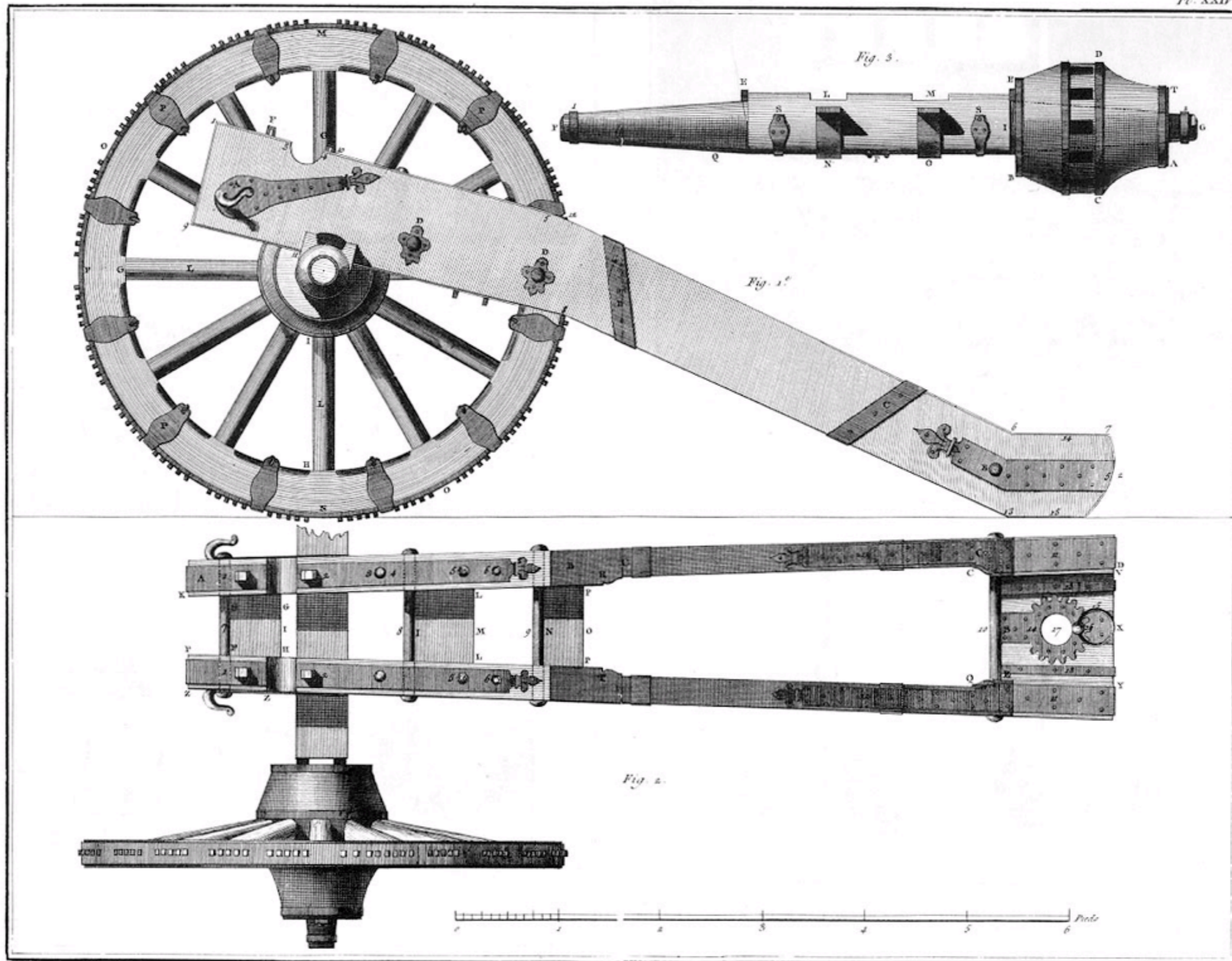
Fonte des Canons.
suite de l'Art de Mouler les Bombes en Sable.



Coglier del.

Bernard fecit.

Fonte des Canons.
2^e suite de l'Art de Moulder les Bombes.

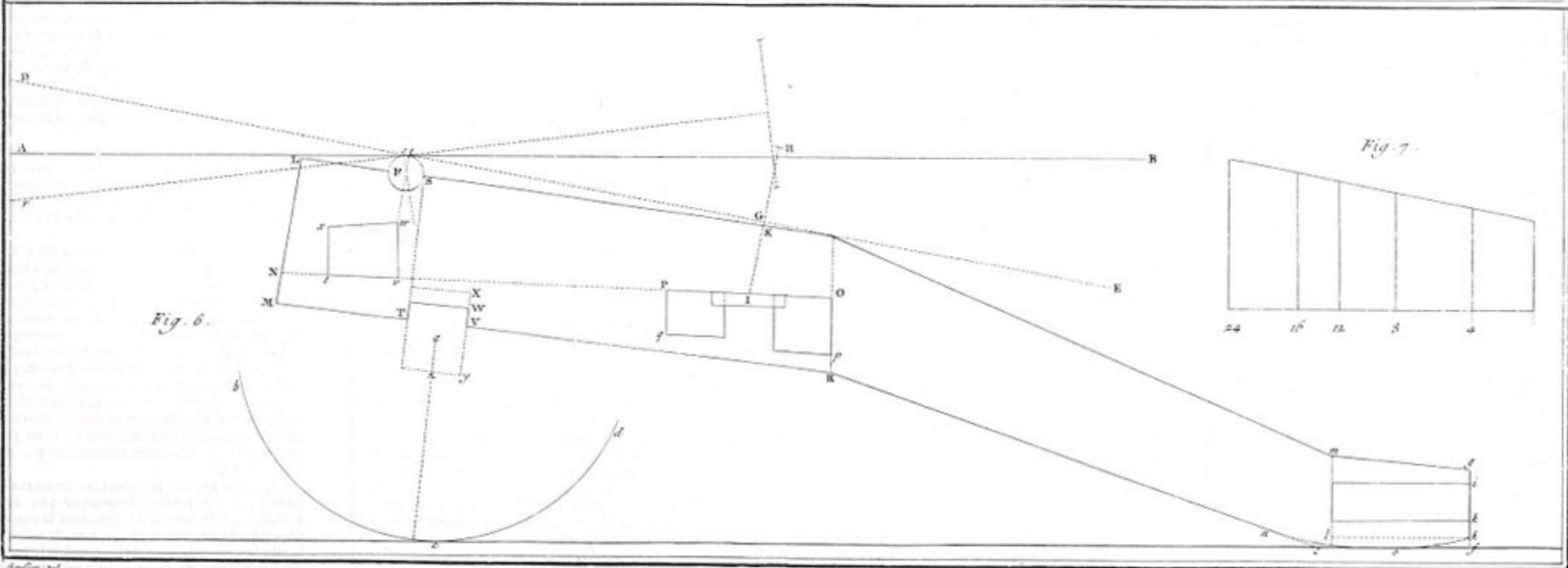
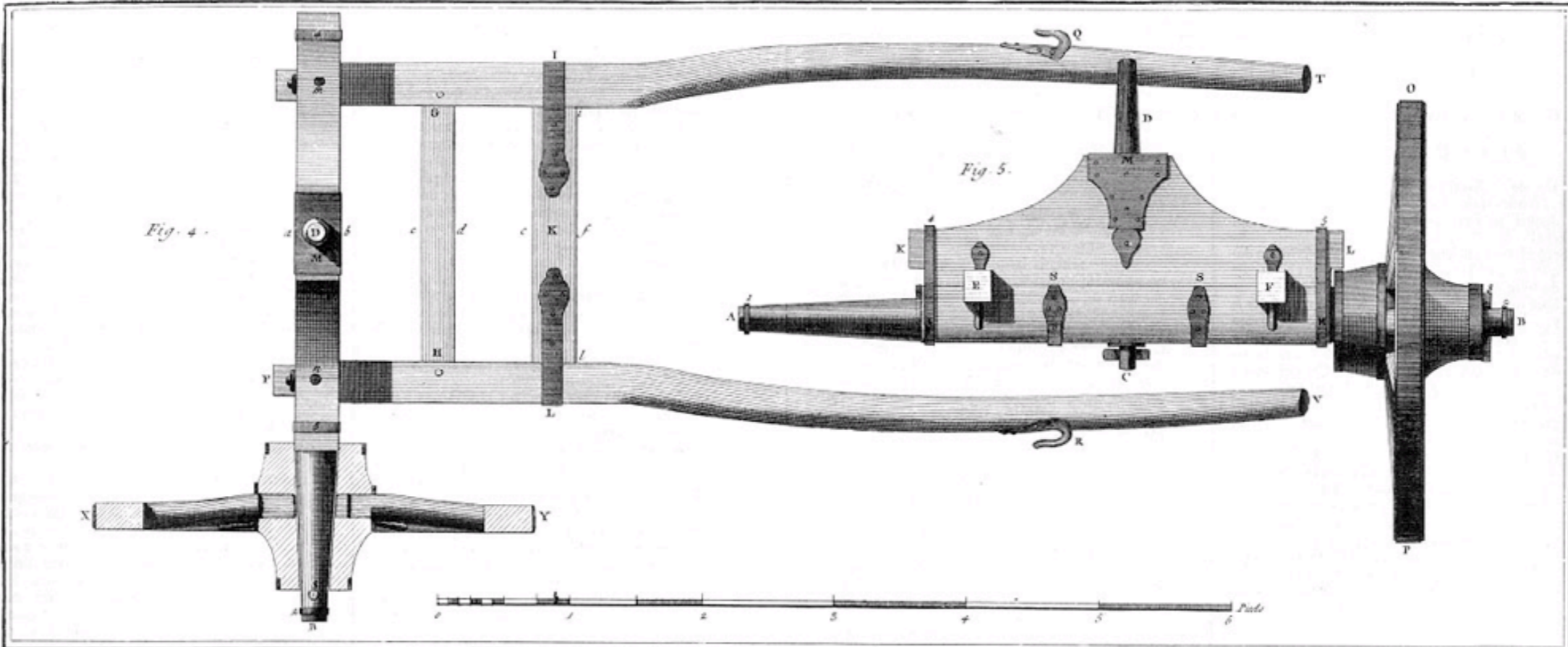


Benard del.

Benard fecit.

Fonte des Canons, Affut du Capitaine Espagnol.

Plate XXIV: Cannon Foundry, Limber of the Spanish Captain



Boyer del.

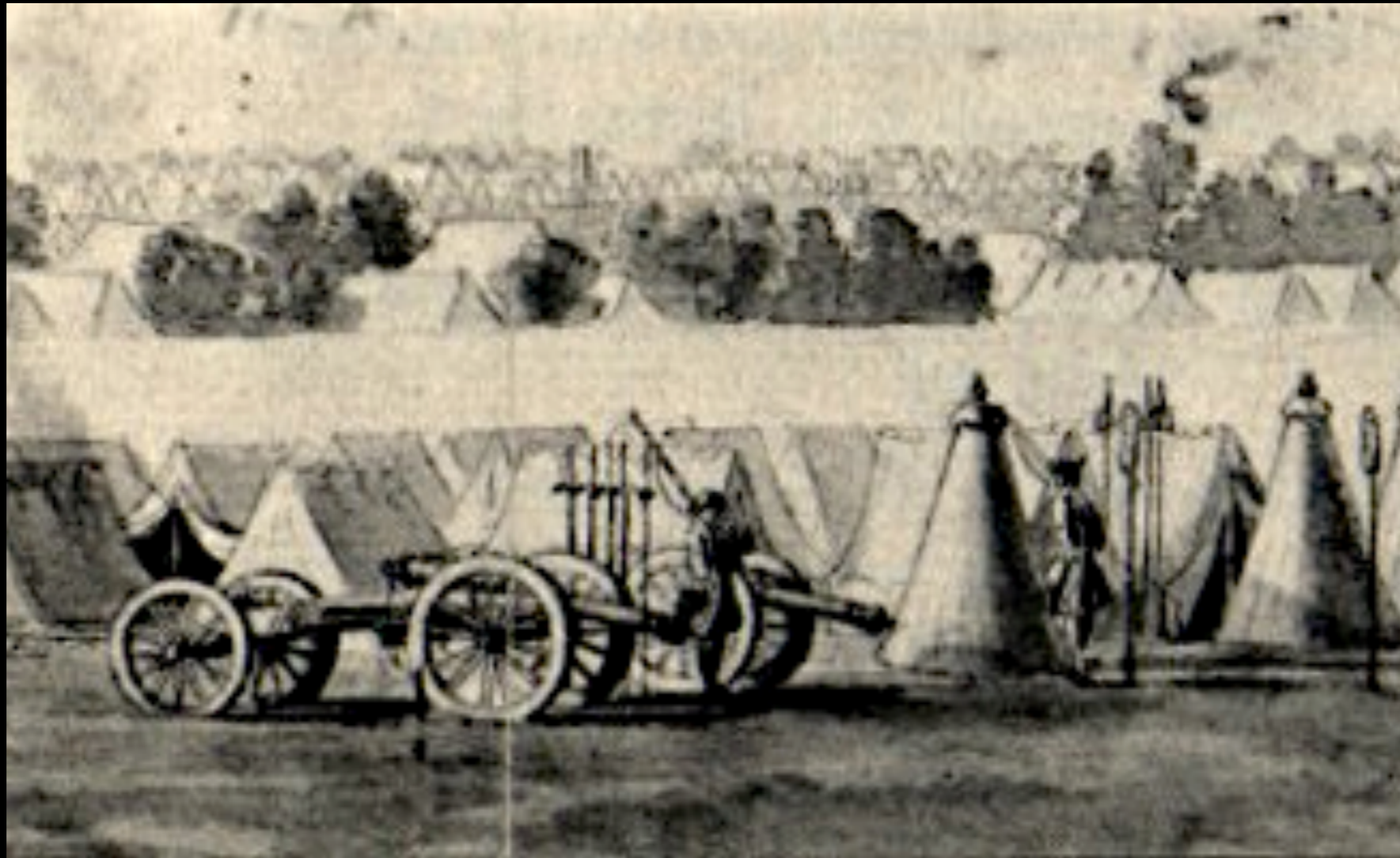
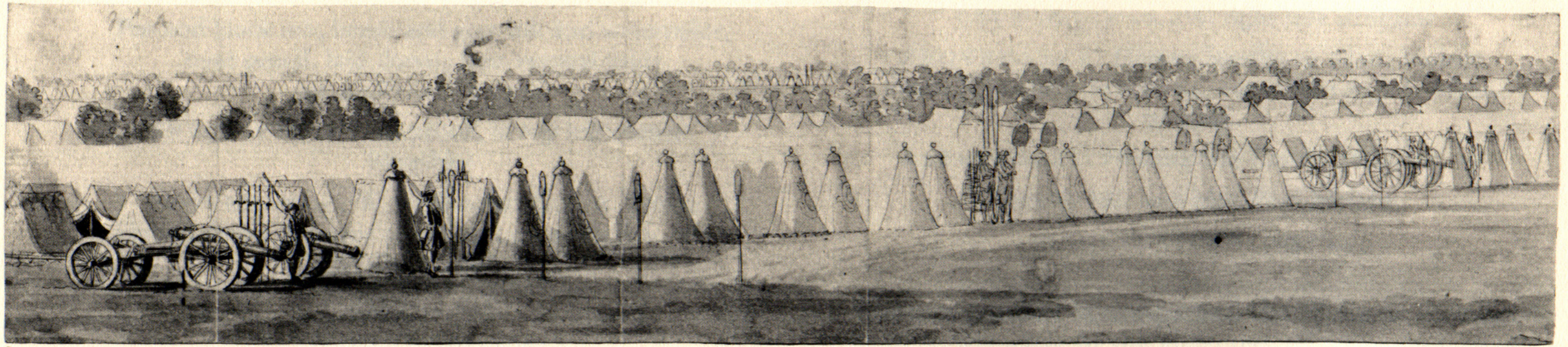
Boyer fecit.

Fonte des Canons, Avant-train du Capitaine Espagnol et démonstration relative à l'art de Pointer?

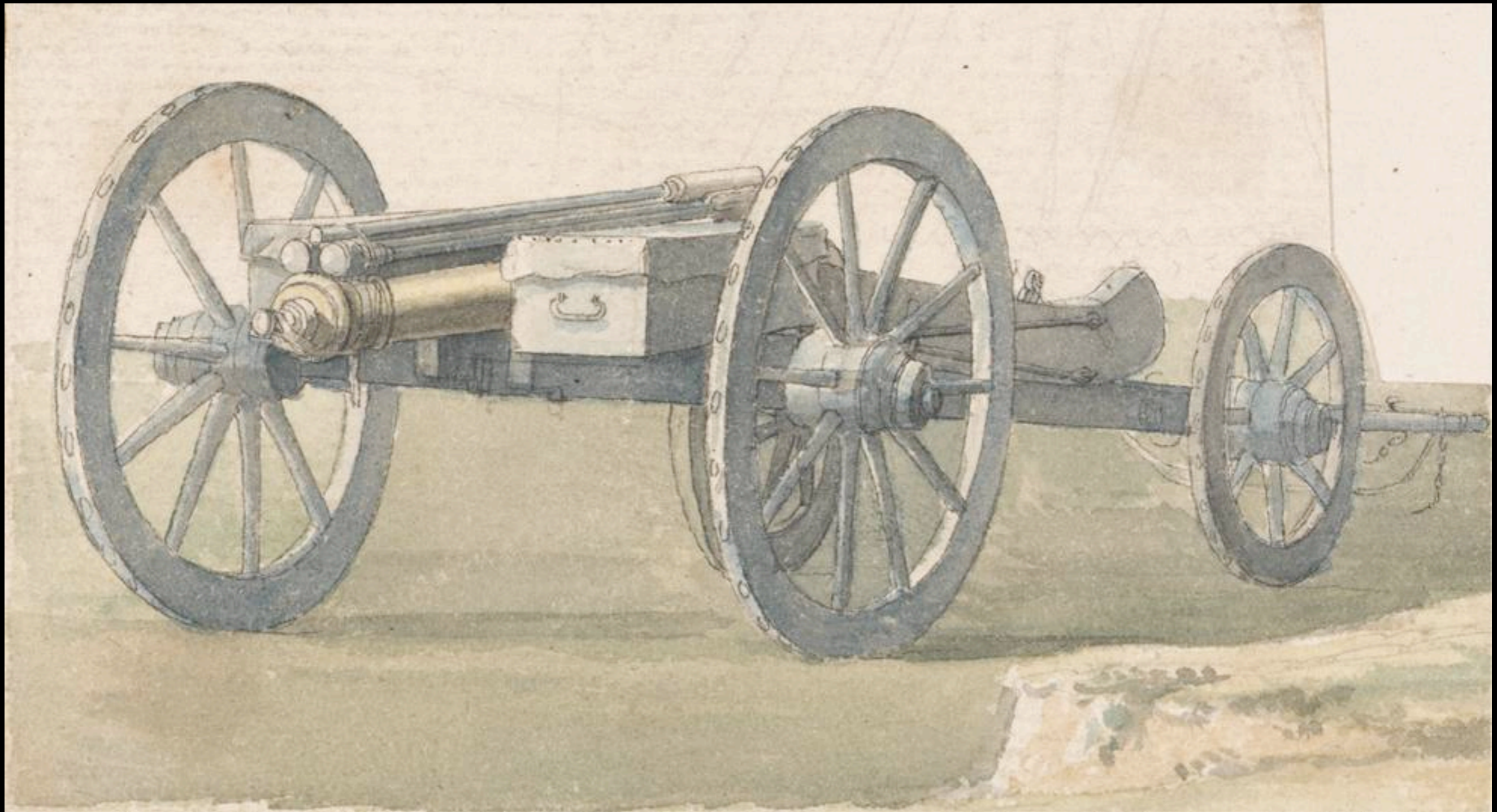
Plate XXV: Cannon Foundry, Limber of the Spanish Captain and Demonstration of the Art of Training

Field Artillery

“Great Guns”



"An Encampment in Flanders"
by Thomas Sandby c. 1747



Detail: Artillery Piece
by Thomas Sandby (Paul?)



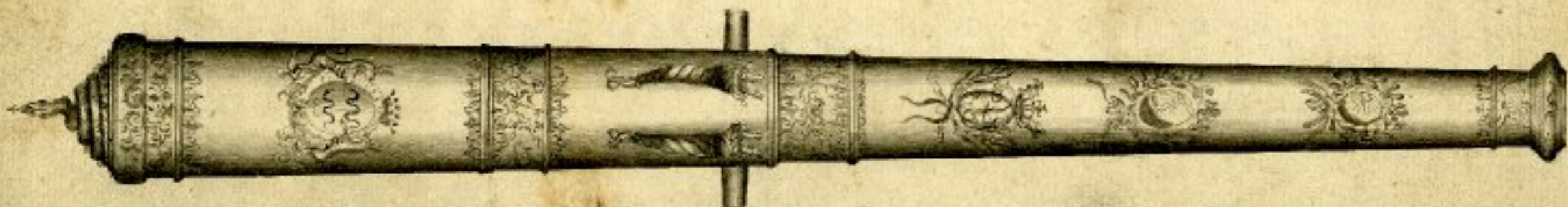
Verbruggen Cannon
18th Century



English Brass Cannon Model
c. 1750
(National Maritime Museum, Greenwich, London)



English Brass Cannon Model
c. 1750
(National Maritime Museum, Greenwich, London)

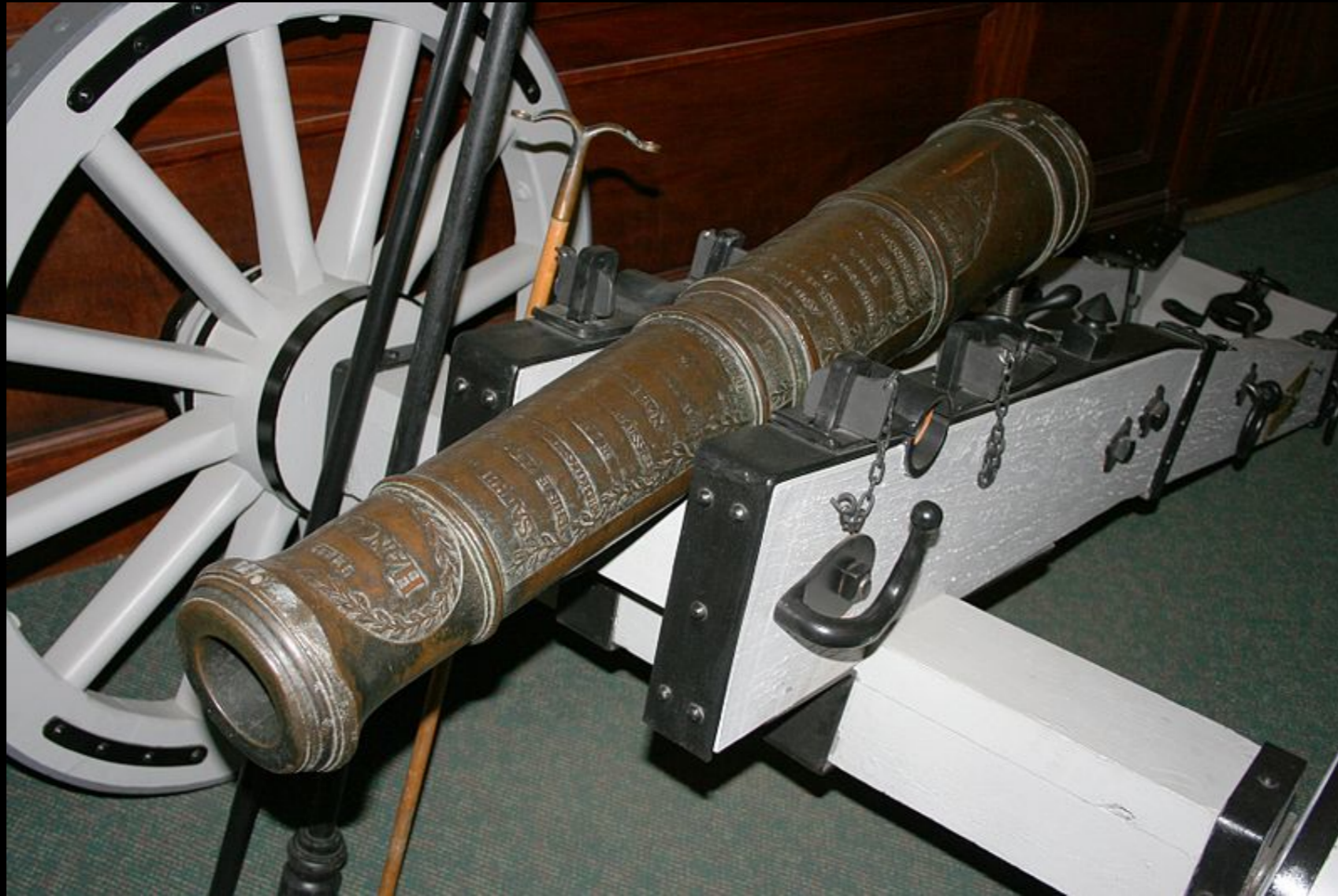


two 4 Pounders taken at Quebec before the Governors Door in 1759
and now deposited in the Grand Arsenal in the tower of London. *Scale of feet*

K. Cofield pinxt 1760

"two 4 Pounders taken at Quebec before the Governors Door in 1759
and now deposited in the Grand Arsenal in the tower of London Scale of feet"
by "K. Cofield, pinxt, 1760"
(The British Museum)

"You will march...with the utmost expedition and Secrecy to Concord, where you will seize and destroy all the Artillery, Ammunition, Provisions...Small Arms, and all Military Stores whatevrr..."
- General Gage's orders to Lt. Col. Smith, April 18, 1775



The "HANCOCK" Cannon & Recreated Carriage

One of Four Cannon Purchased by the Massachusetts General Court for the Boston Artillery Company in 1766

Confiscated by the British Forces during the Boston Occupation

Stolen and "transported safely within American Lines" on Sept. 16, 1774

Hidden with Additional Military Stores at Concord and Buried at Barrett Farm in the Spring of 1775

After the War, Two Cannon were Returned to the Boston Artillery - Christened and Engraved the "Adams" and "Hancock" in 1788

Engraved in 1843

(Minuteman Historic Park on Loan from the Bunker Hill Monument Association)

"You will march...with the utmost expedition and Secrecy to Concord, where you will seize and destroy all the Artillery, Ammunition, Provisions...Small Arms, and all Military Stores whatevrr..."
- General Gage's orders to Lt. Col. Smith, April 18, 1775



The "HANCOCK" Cannon
(Minuteman Historic Park on Loan from the Bunker Hill Monument Association)



Philadelphia Bronze 6 Pounder Cast by James Byers in 1777
(Charlestown Museum - Neal Hurst Photograph)



Philadelphia Bronze 6 Pounder Cast by James Byers in 1777
(Charlestown Museum - Phil Douglis Photograph)



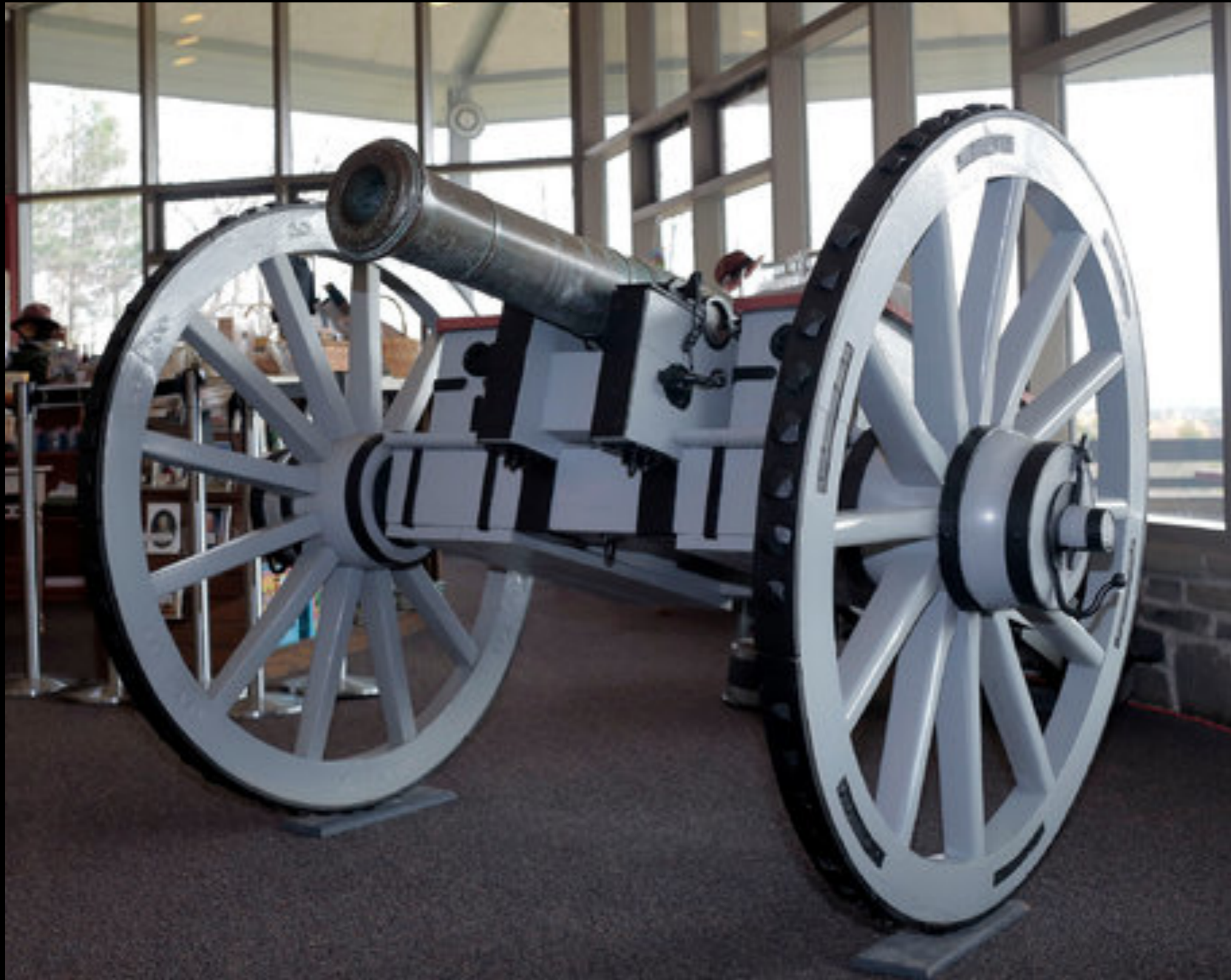
Philadelphia Bronze 6 Pounder Cast by James Byers in 1777 (Reproduction Carriage)
(Charlestown Museum - Neal Hurst Photograph)



Philadelphia Bronze 6 Pounder Cast by James Byers in 1777 (Reproduction Carriage)
(Charlestown Museum - Neal Hurst Photograph)

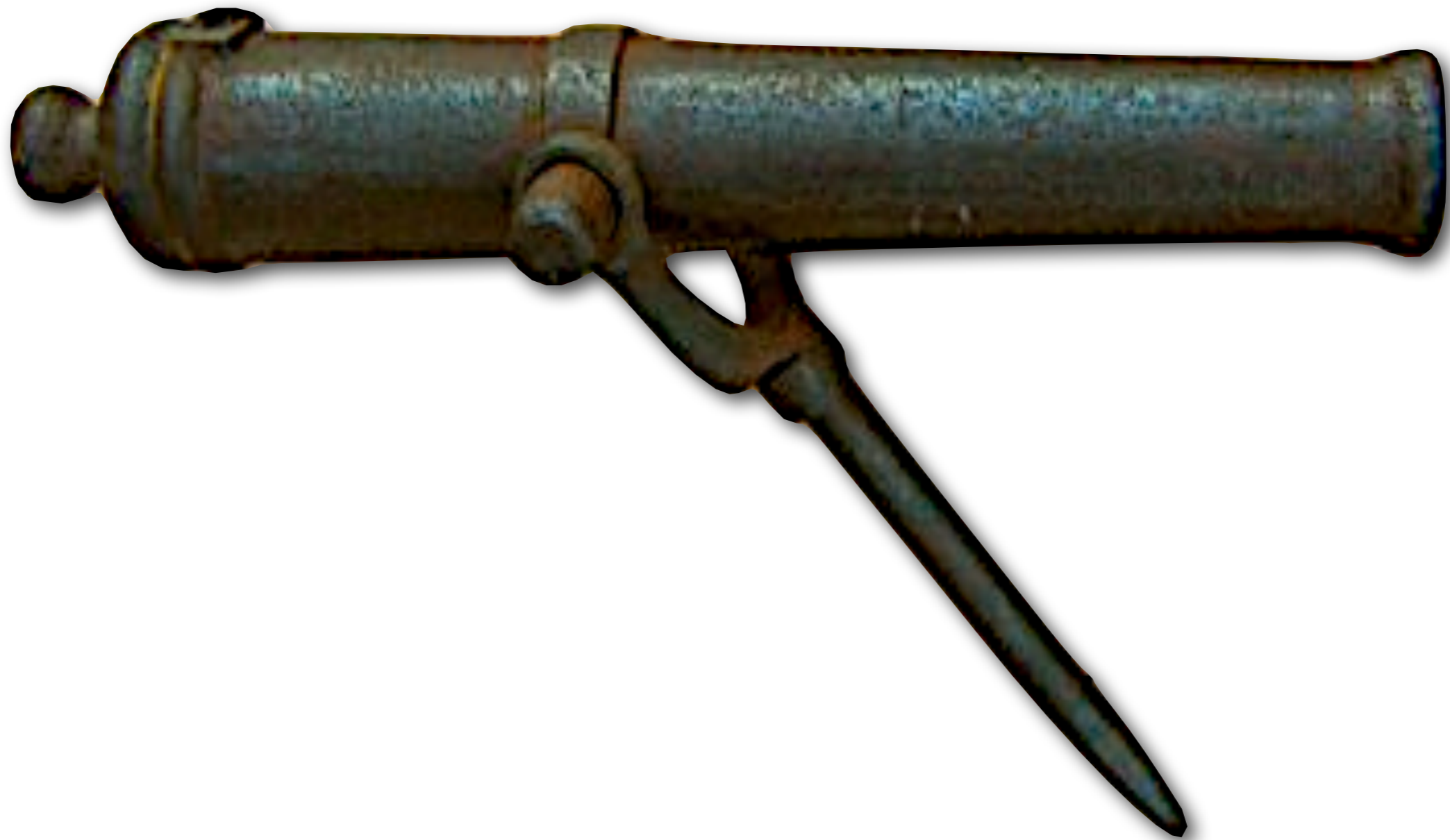


Philadelphia Bronze 6 Pounder Cast by James Byers in 1777 (Reproduction Carriage)
(Charlestown Museum - Neal Hurst Photograph)



British 6 lb. Cannon Cast in 1756 and Transported to Canada in 1776 (Reproduction Carriage)
Surrendered to the Continental Army by Burgoyne in 1777 After His Defeat at Saratoga
(Saratoga National Historic Park)

Swivel Guns



America Cast Iron Swivel Gun

c. 1770s

(Paul M. Ambrose)

Mortars
&
Powder Testers



Iron Mortar & Powder Tester
18th Century
(Bonhams - William H. Guthman Collection)



Bronze Mortar & Powder Tester
18th Century
(Bonhams - William H. Guthman Collection)

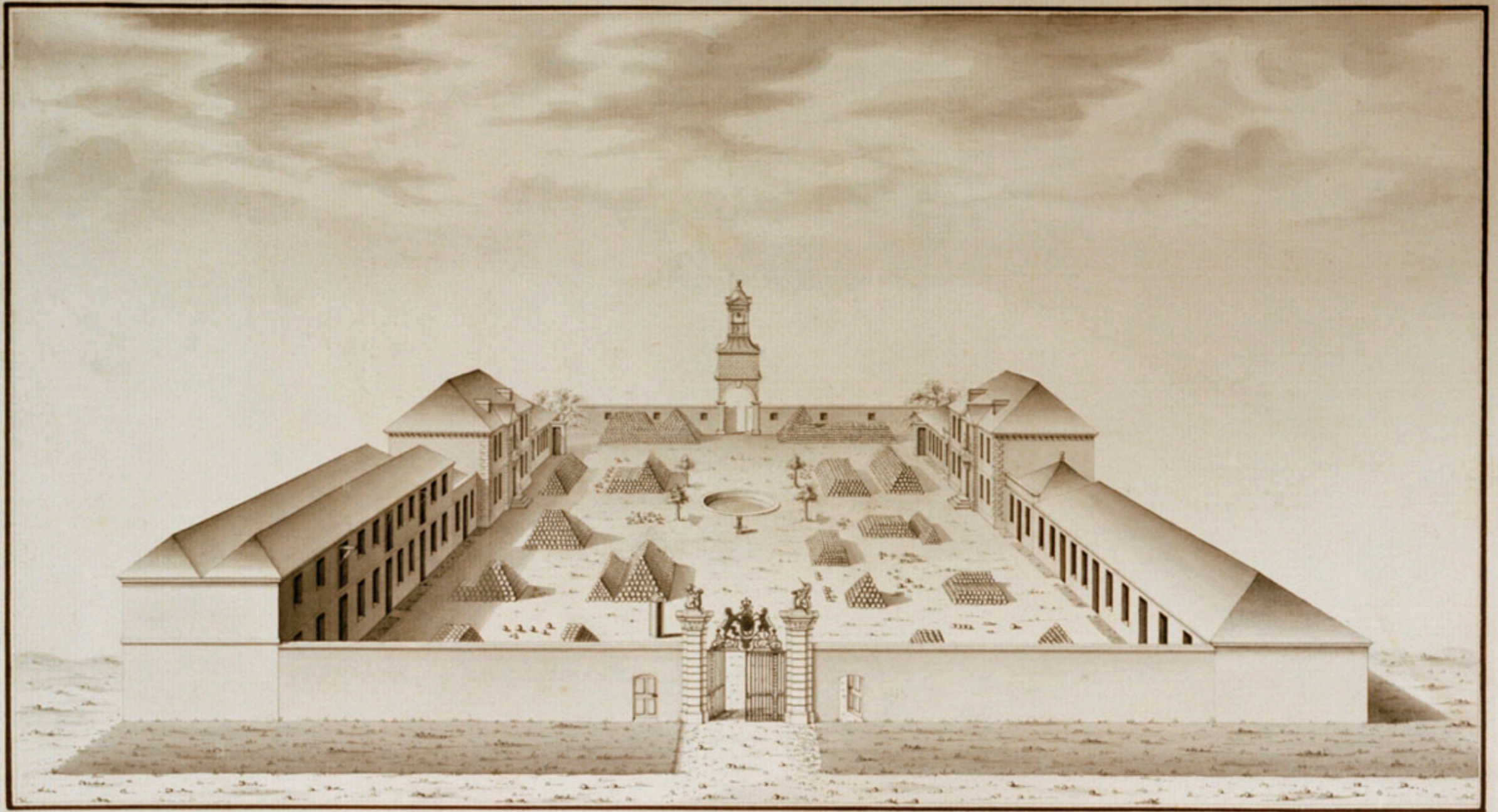


Bronze Mortars & Powder Testers
18th Century
(Bonhams - William H. Guthman Collection)



Bronze Mortars & Powder Testers
18th Century
(Bonhams - William H. Guthman Collection)

The Royal Laboratory in Woolwich

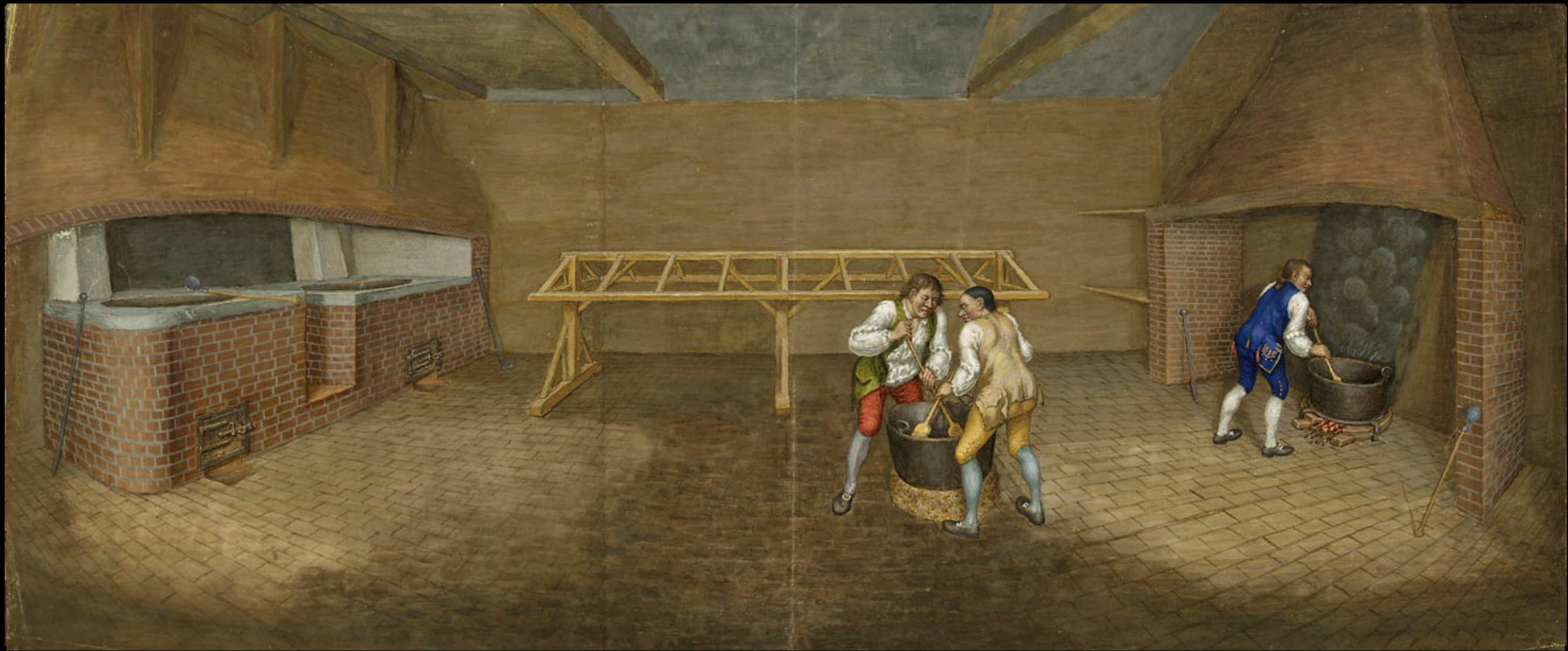


A Perspective View of the Royal Laboratory at Woolwich.

“A Perspective View of the Royal Laboratory in Woolrich”
(National Maritime Museum)



Woolwich Arsenal: Laboratory Interior Melting Metal c. 1750
(National Maritime Museum)



Woolwich Arsenal: Laboratory Interior of Furnace Room c. 1750
(National Maritime Museum)



Woolwich Arsenal: Laboratory Square Facing South c. 1750
(National Maritime Museum)



Woolwich Arsenal: Laboratory Square Facing North c. 1750
(National Maritime Museum)



Woolwich Arsenal: Mixing the Powder c. 1750
(National Maritime Museum)



Woolwich Arsenal: Molding Powder Pellets c. 1750
(National Maritime Museum)



Woolwich Arsenal: Mold for Making Powder Pellets c. 1750
(National Maritime Museum)



Woolwich Arsenal: Making Charges c. 1750
(National Maritime Museum)



Woolwich Arsenal: The Pumps c. 1750
(National Maritime Museum)

Artillery

Balls, Shot & Shells



A Group of Artillery Projectiles Including a Ball Marked with the British Broad Arrow
c. 1770 - 1785
(Bohnams - William H. Guthman Collection)



American 12 lb. Solid Shot Cannon Ball Found at the Site of the Battle of Castine, Maine, July, 1779
(Paul M. Ambrose)



American 4 lb. Solid Shot Cannon Balls Found in New Hampshire

c. 1770s

(Paul M. Ambrose)



4 3/4" Diameter Solid Shot Cannon Ball from the Saratoga Battlefield and 4 1/4" Mortar Shell Embedded with Musket Balls
c. 1777
(Bohnams - William H. Guthman Collection)



British Solid Shot Cannon Ball and Mortar Shell
18th Century
(George C. Neuman Collection, Valley Forge National Historic Park)



Mortar Shell Recovered from the H.M.S. Invincible Sunk on February 19, 1758



English or French 12 lb. Mortar Shell

c. 1770

(Paul M. Ambrose)



French 50 lb. Mortar Shell
c. 1770
(Paul M. Ambrose)



British Solid Shot Cannon Ball and Bar Shot
18th Century
(Private Collection)



Bar Shot
c. 1770 - 1785
(Bohnams - William H. Guthman Collection)



3" Ball Diameter Bar Shot in Concretion: Del - Marva Peninsula Provenance

c. 1770s

(Paul M. Ambrose)



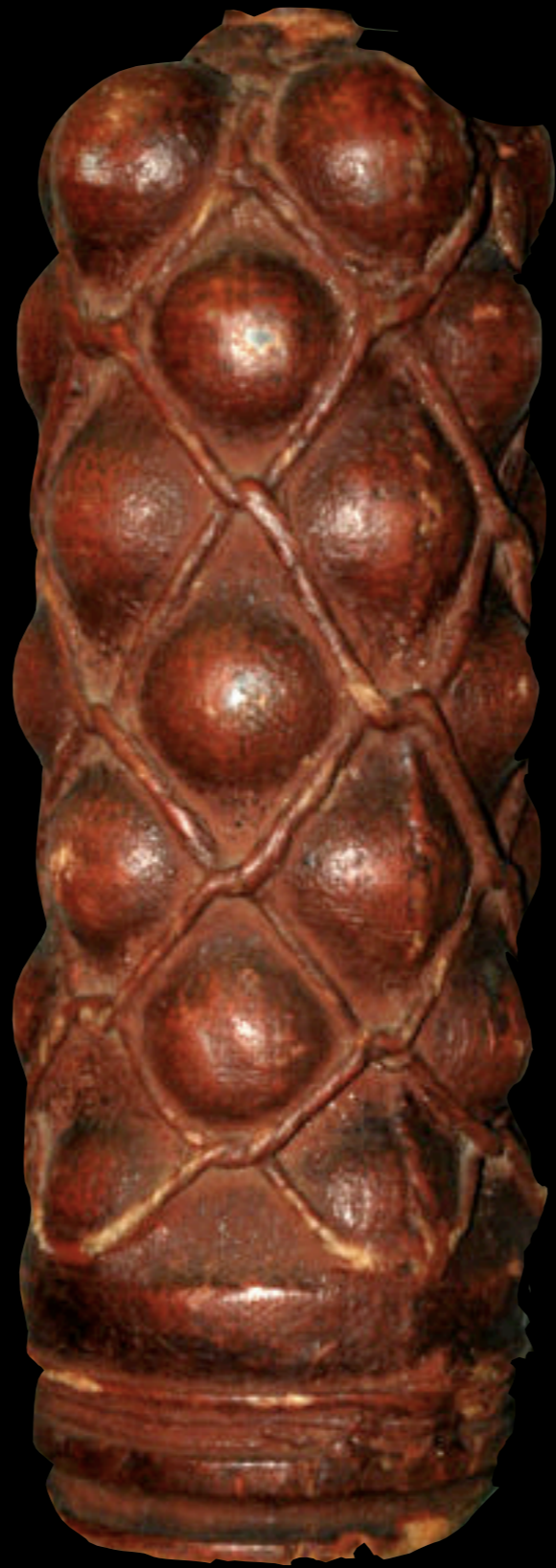
British DoubleHead Bar Shot found nearFort Haldimand
18th Century
(Private Collection)



Expandable Bar Shot
18th Century
(Private Collection)



Solid Shot Cannon Ball, Chain Shot, and Bar Shot
18th Century
(Museum of the American Revolution)



Grape Shot
18th Century
(Private Collection)



Pre- American Revolution French Cannon Ball
Fleurs - de - Lis Stamp
c. 1720 - 1760
(Don Troiani)



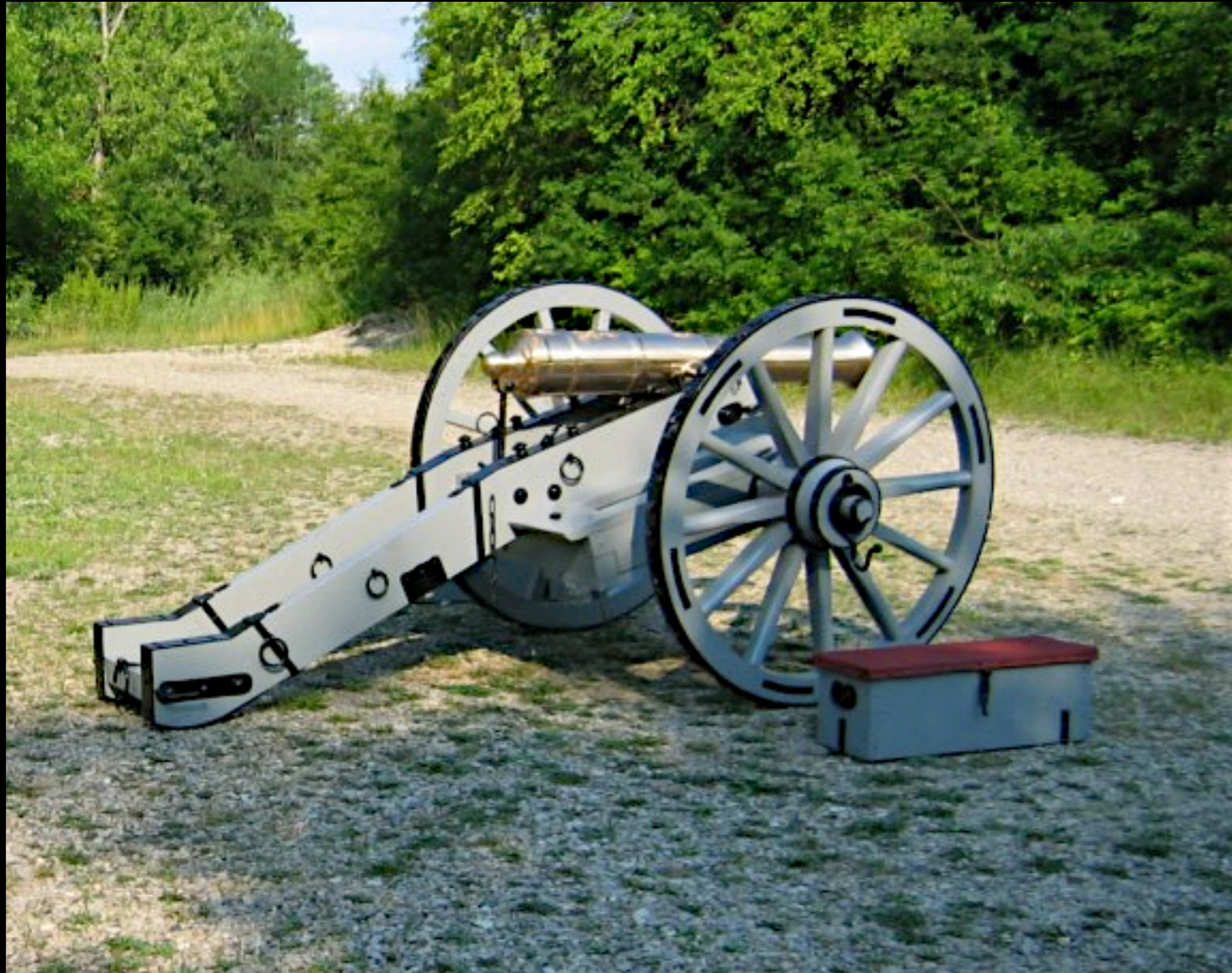
Copyright Fort Ticonderoga Museum

12 Pound French Cannon Shot c. 1750 - 1759
(Fort Ticonderoga)

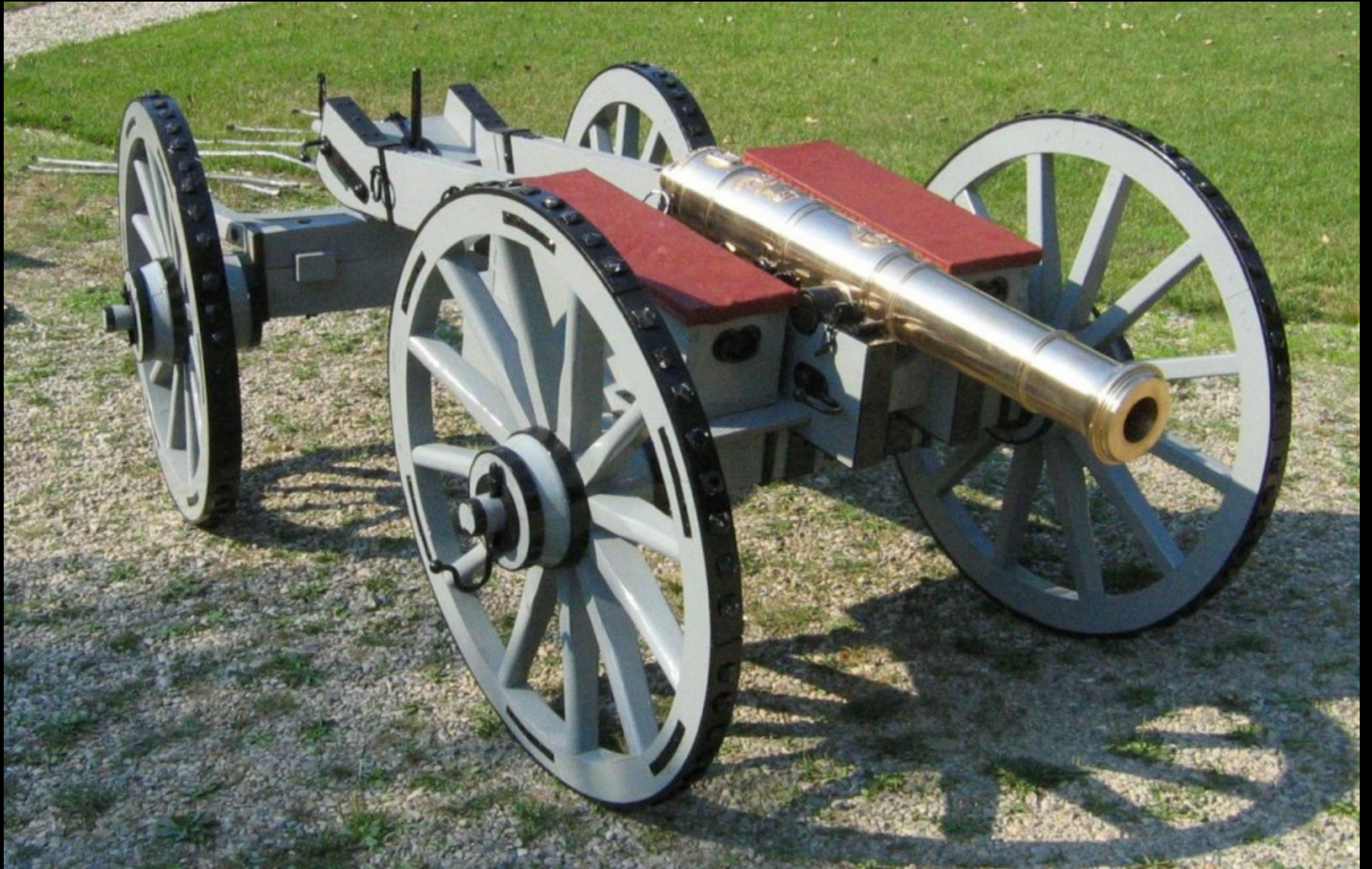


13" French Mortar Shell with Handles
Found in the Yorktown Area

Modern Recreations



Reproduction 6 lb. Cannon on Carriage
(George Rogers Clark Park, Clark County, Ohio - Hardware by Hoffman Forge)



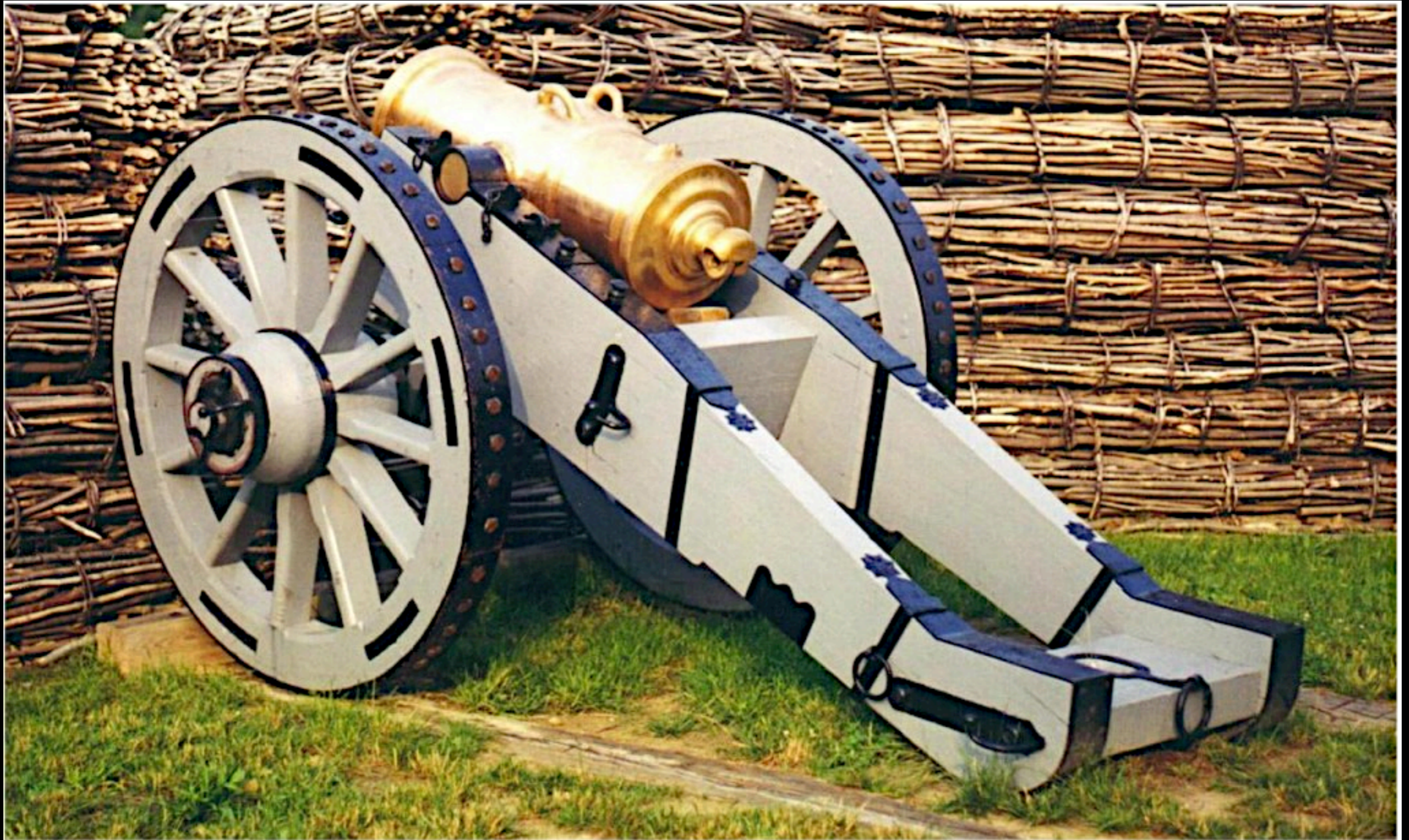
Reproduction Light 6 lb. Cannon on Carriage with Limber
(George Rogers Clark Park, Clark County, Ohio - Hardware by Hoffman Forge)



Reproduction Ammunition Wagon, Block Carriage with 8 inch Mortar, & Light 12 lb. Cannon on Limber
(Fort Stanwix - Hardware by Hoffman Forge)



Breech Detail: Reproduction 3 lb. Cannon
(Fort Stanwix - Hardware by Hoffman Forge)



Reproduction 8" Howitzer in Battery
(Fort Stanwix - Hardware by Hoffman Forge)



Rosette on Reproduction 8" Howitzer
(Fort Stanwix - Hardware by Hoffman Forge)



Reproduction 5.6" Howitzer on a Sled
(Fort Stanwix - Hardware by Hoffman Forge)



Reproduction Powder Cart & Ammunition Wagon
(Fort Stanwix - Hardware by Hoffman Forge)

Acknowledgements

The 18th Century Material Culture Resource Center is indebted to Roy P. Najecki for the use of his text, "The Art of Gunfoundry" by Carl De Beer which made this installment possible.

Acknowledgements

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Thank you!

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