

WASC 5

WASC 1833

POSTAL  
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PLQ 37

RECEIVED  
NOV 17 1954  
U.S. AIR FORCE  
HEADQUARTERS  
WASHINGTON 25, D.C.

NOV 17 1954  
U.S. AIR FORCE  
HEADQUARTERS  
WASHINGTON 25, D.C.

→ 7-154 ←





Presented to  
Dr. L. J. Bellamy C. B. E. ,  
Director  
on his retirement.

From his many friends and colleagues  
at C. R. D. E.

- 1 The Arms: Granted originally by George III 19 July 1806 and hre  
exemplified by the College in 1823
- 2 Powder Mills: plate by J Farmer for John Walton AD 1735
- 3 Perspective view from Drayson's Treatise circa 1830
- 4 I R Spectrum of penicillin G  
5
- 6 Plates from "The Details of the Rocket System" by William Congreve, pub 1814  
7
- 8 Plate from Volume V, "Chemistry as applied to the Arts and Manufactures",  
pub Mackenzie circa 1894

# The Arms

granted to

The Right Honourable and Honourable  
The Board of His Majesty's Ordnance

on

16 May, 1825

## The Blazon

Arms.

Azure - 3 Field Pieces in pale, or on a chief, argent, 3 cannon balls, proper

Crest

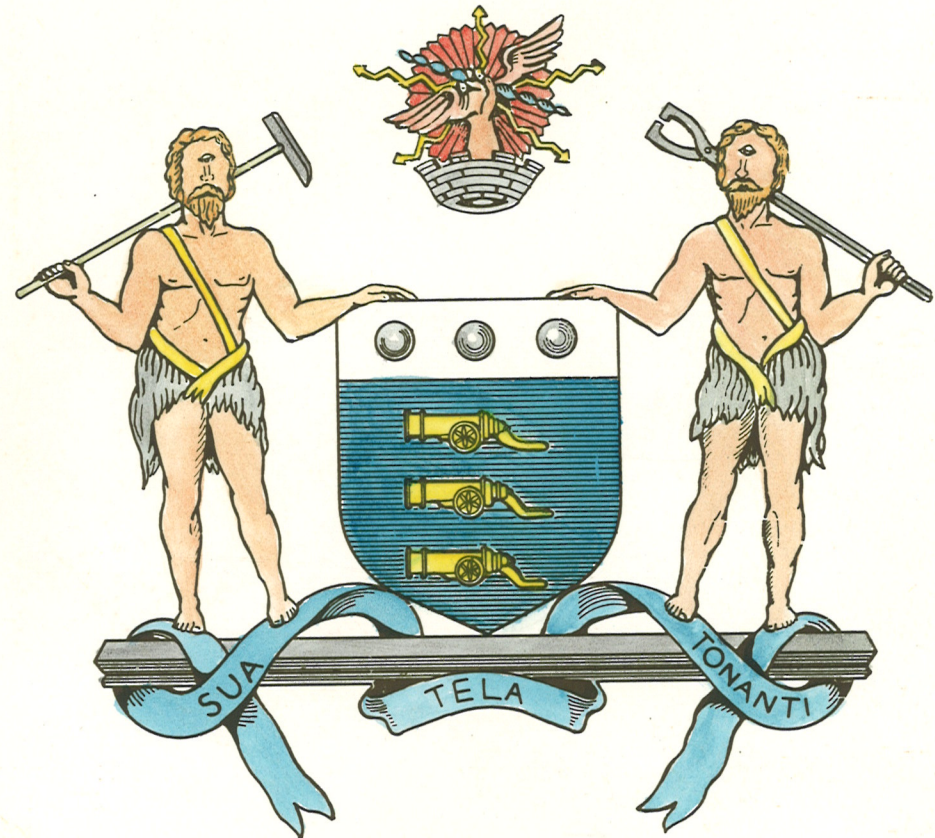
Out of a mural crown, argent, a dexter cubit arm, the hand grasping a thunder-bolt, winged and inflamed, proper.

Supporters

On either side a Cyclops, in the exterior hand of the dexter a Hammer, and in the sinister a pair of Forceps, resting on shoulder of each respectively, all proper.

Motto

Sua tela tonanti.



1. A Horse Mill
2. The Corning and Glazing Engine
3. } Three Horse Mills
4. }
5. }
6. The Stables
7. The Coal Mill and Composition House

8. The Carpenters and Mill-wrights work house
9. The Clerks Counting house and the Watch house
10. The Loading house
11. } Two Stamping Mills
12. }
13. } Two Pump Mills
14. }

15. The Charging house
16. The old Composition house
17. The Store house
18. The Dusting house
19. The Little Store
20. Three Sun Stoves, or drying Leads
21. The great Store

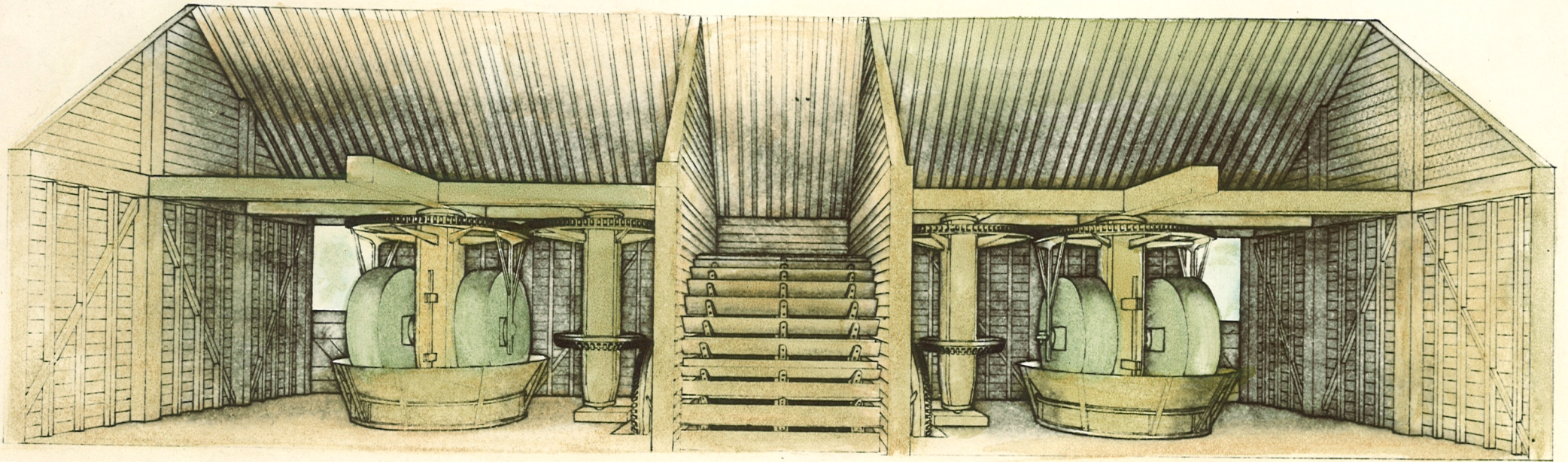


To John Walton Esq<sup>r</sup> Proprietor of these Mills this Plate is  humbly dedicated by his Obedient humble Servant J. Farmer

Printed in London 1735.

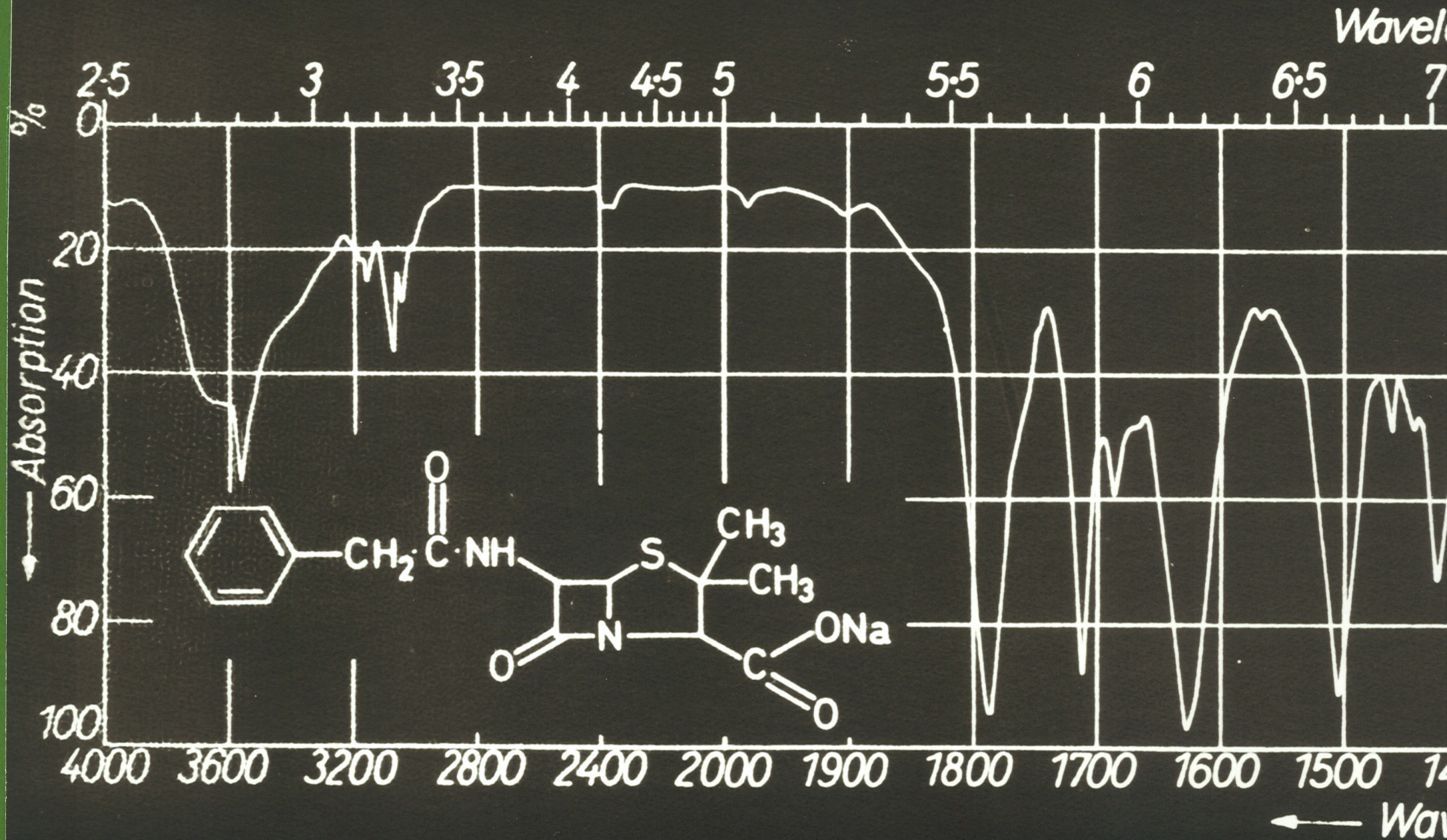
J. Farmer del.

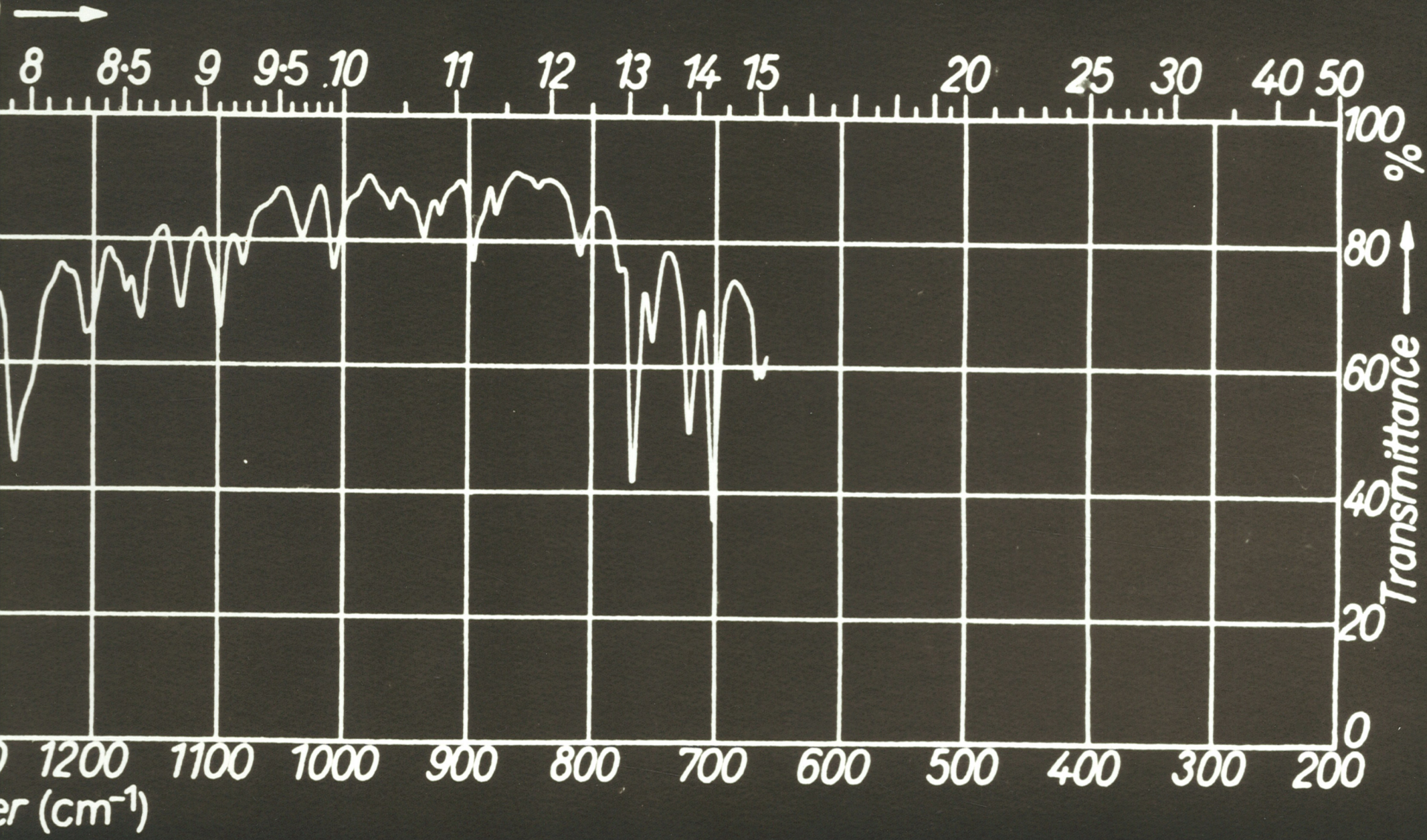
*Drawings of a Gunpowder Mill*



*PERSPECTIVE VIEW OF THE INTERIOR.*







Signed for this 30<sup>th</sup> day of

September 1976,

the following....

<p>             G. Adams              I. E. Dingle              J. James              V. C. Jones              G. Fitch              J. E. Ball              J. L. Ebbayll              Ibe              M. Gaughan              C. Evans              Diane House              J. Henshaw              W. Parratt              G. V. Hayes              Mark Phillips              P. L. Kessler              J. W. Grindley              K. D. Potter              Sean Moran         </p>	<p>             Jean Burgess              P. J. Honey              W. Waller              MENEYARD              W. P. Lyons              H. Edwards              Dame Sallie              Aynhygge              R. D. Smith              Alced.              Richard William              G. H. Harris              R. Cove              Alced.              J. M. Mill              J. B. Smith              S. Hewitson              M. H. Hille              R. P. Clarke         </p>	<p>             J. Edmonds              Anna Howard              W. H. Clark              J. B. Minceford              J. E. Compton              C. Matthews              Skull              J. W. Fox              Richard Bunt              B. M. Matthews              R. Burridge              E. Hunt              G. M. Carpenter              M. J. Fardell              S. Parsons              R. St. John              Valerie Thompson              J. J. Henshaw              J. Rankine              M. Bratt              Roy Fisher              Grace Verrill              J. H. Hille              Bill Payne         </p>	<p> <del>W. Henshaw</del>              M. Paisly              P. Luckhurst              W. S. Makisa              C. McFarlane              J. E. Webb              J. Macey              V. Speer              J. Henshaw              J. Lambton              G. J. Kerr              G. Chandler              Bob Macey              H. Bueby              Lyn Braker (Registry)              G. Bonnell              B. Snape              H. Lloyd              A. L. M. Parker              M. Faint              R. Bourne              J. H. Penny              Sandra Day              J. Henshaw              P. Luckhurst              W. S. Makisa              C. McFarlane              J. E. Webb              J. Macey              V. Speer              J. Henshaw              J. Lambton              G. J. Kerr              G. Chandler              Bob Macey              H. Bueby              Lyn Braker (Registry)              G. Bonnell              B. Snape              H. Lloyd              A. L. M. Parker              M. Faint              R. Bourne              J. H. Penny              Sandra Day              J. Henshaw              P. Luckhurst              W. S. Makisa              C. McFarlane              J. E. Webb              J. Macey              V. Speer              J. Henshaw              J. Lambton              G. J. Kerr              G. Chandler              Bob Macey              H. Bueby              Lyn Braker (Registry)              G. Bonnell              B. Snape              H. Lloyd              A. L. M. Parker              M. Faint              R. Bourne              J. H. Penny              Sandra Day         </p>	<p>             C. M. Henshaw              W. R. Yeandle              V. Worsley              V. Dody              J. E. Webb              J. Macey              V. Speer              J. Henshaw              J. Lambton              G. J. Kerr              G. Chandler              Bob Macey              H. Bueby              Lyn Braker (Registry)              G. Bonnell              B. Snape              H. Lloyd              A. L. M. Parker              M. Faint              R. Bourne              J. H. Penny              Sandra Day              G. Deary              J. Grogan              J. Cooke              G. J. Henshaw              M. Henshaw              J. Eckworth              V. Henshaw              A. Anderson              E. R. Eden              Les Cole              John K. Clark              David Gordon              Vera Parker              Les Fido              John Norton              Kathleen Weatherstone              Jerry Jones              J. Whitehouse              R. Henshaw              A. Henshaw              H. Henshaw              J. Woodman         </p>
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R. Stenson  
M. Hamilton  
R. Goodall  
B. Hayfield  
H. Greenwood  
R. Adams  
N. Forges  
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M. Clarke  
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P. & Mansfield  
R. de Fere  
C. H. Salmon.  
Les Bates.  
A. G. Daniel.

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Ed. Short. Daisy W.  
Tom Burton. R. Keller  
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R. Payne  
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Harrison	Mary Coover	
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Henry Hartney	Jim Burgess	
Kath. Woolfstone	D. Eldridge	
M. Bett	Moyra Matten	
Dick Pace	Alfred Moore	
G. Hooper	R. Ketteridge	
Eric R. Rendrew	J. Stone	
Vic Clifford	R. J. Giller	
Dave Mullings		

*Dr. L. J. Bellamy*

C.B.E



***With best wishes for the future  
from friends and colleagues at  
R.P.E. Westcott***



Return.  
Larkin.

M. McKee.

Glave.

John McBayle.

David Galt.

Joan Jodett.

B. Price.

A. W. Barton.

E. F. Smith.

J. B. Marsh.

Kane Timm &

*[Signature]*

Alan Se

Harvey Young

D. Dean

M. W. Small

*[Signature]*

J. R. Rammick

J. Margeta

P. J. Sherwood.

J. Shillinglow.

Wm. K. K. K.

W. K. K.

Peter D. D.

J. J.

*[Signature]*

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Judky Lewis

Junica Day

Frank Daymond

Steve Huisen  
Pittsburgh.

~~James~~  
~~Wood~~  
M. Ryan

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Wilson  
G. R. Bennett

Duff

Stredley

J. W. Hardesty

A. Withey

Henry Walbank

A. H. Tomlinson

G. Sykes

W. Macdonald

N. J. Mars  
L. C. Campbell  
J. Winchester

~~James~~  
~~W. H. O'Connell~~  
W. H. O'Connell

W. H. O'Connell  
M. J. Murphy

Franky

D. Sutton

C. Tyler

J. McLean

C. F. Sayer

W. G. Sayer

B. S. Brokenbrass

A. R. Hall

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L. H. Spool

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Ken Silman

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R. J. Gould.

R. C. Parkinson

E. H. Matthews

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D. Junstall

B. Travers.

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Marvold Wilson

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J. H. Lloyd

C. Woodcock

A King

Clark

Amloombes

Vera Sutherland

E. Hamilton

L. M. Garbett

Becky Davis

Sue McMullen

Il Cattle

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M. Gray

J. P. Ginds of

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H. G. Wages

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~~Alon~~

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~~T. Bond~~

Fred Crabtree

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~~Marshall~~

Sister Poole

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Albion

Riddle

George Emma

J. Harris

Royce Reed

Spate

W. C. Cook

Rank

D. H. Hickman

Zach W. Williams

~~Van H. Duntor~~

Dermott Cumming

Coppekan

H. Skinner

A. Meagg

J. F. Collier

Edward

John W. Shuman

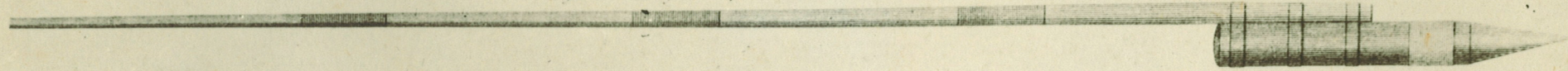
W. C. George

E. Faulkner

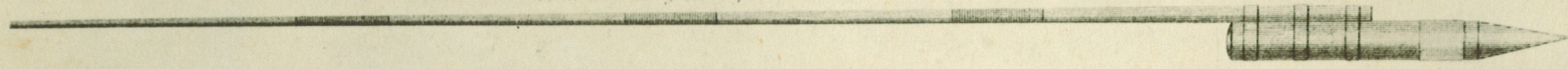
J. Cooper

W. G. Irvine

Eight Inch Carcass, or Explosion Rocket.



Seven Inch Carcass, or Explosion Rocket.



Six Inch Carcass, or Explosion Rocket.

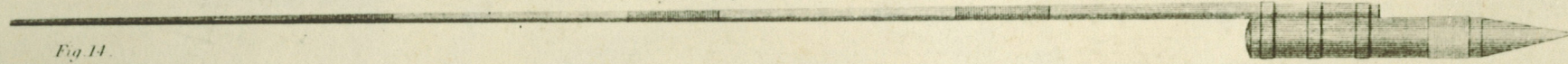


Fig. 14.

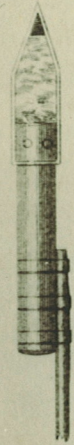


Fig. 15.

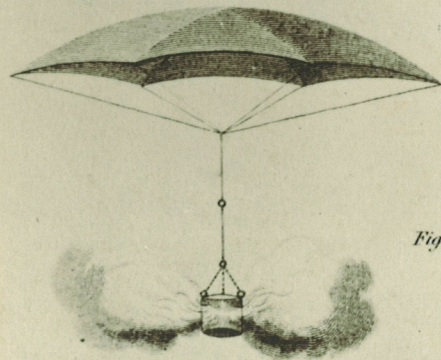


Fig. 11.



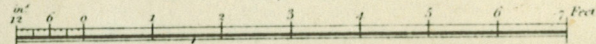
Fig. 13.



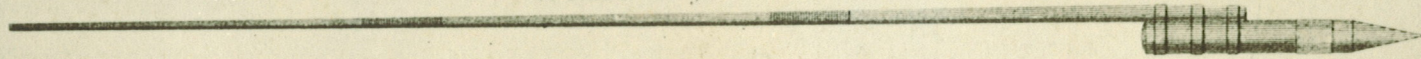
Fig. 12.



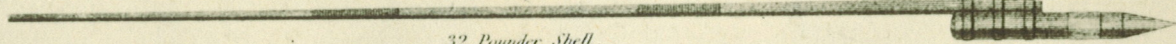
Fig. 10.



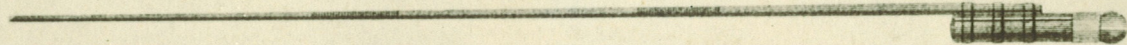
42 Pounder Carcass.



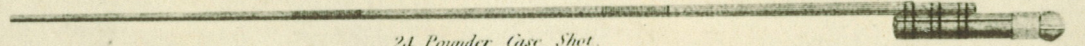
32 Pounder Carcass.



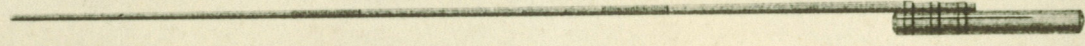
32 Pounder Shell.



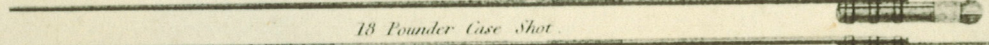
24 Pounder Shell.



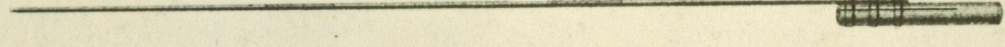
24 Pounder Case Shot.



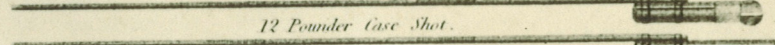
18 Pounder Shell.



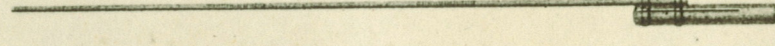
18 Pounder Case Shot.



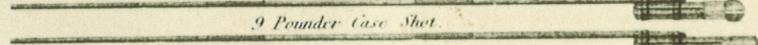
12 Pounder Shell.



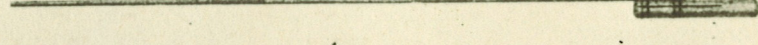
12 Pounder Case Shot.



9 Pounder Shell.



9 Pounder Case Shot.



6 Pounder Shell.

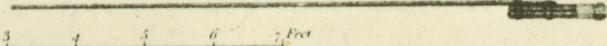


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9





Fig. 3.

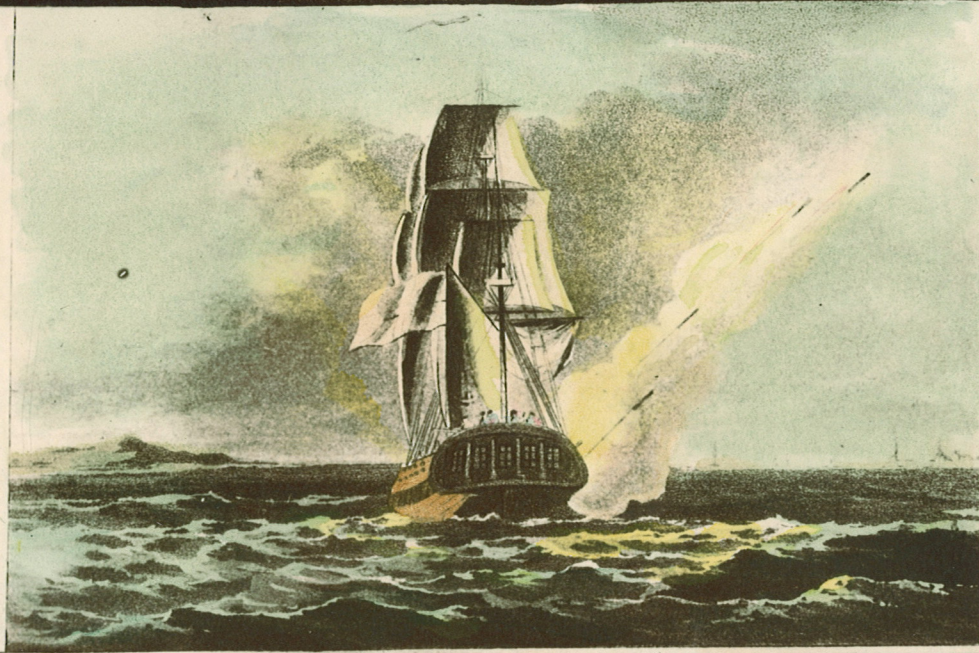
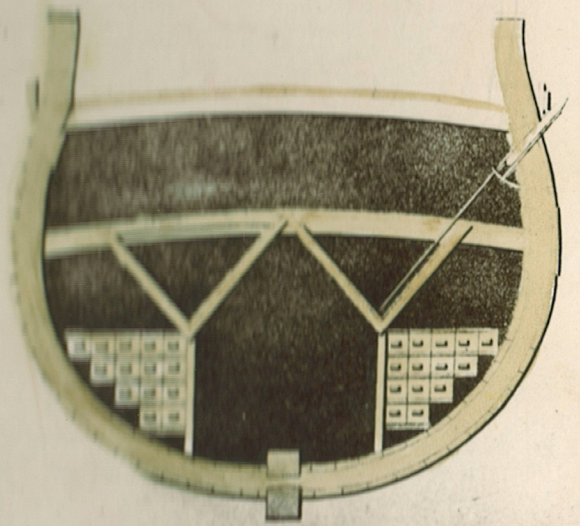
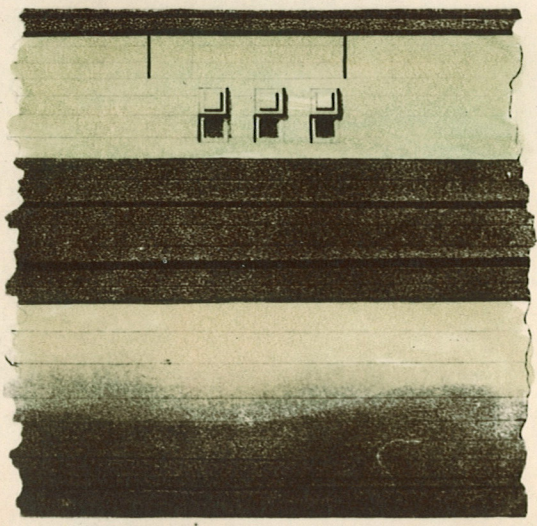
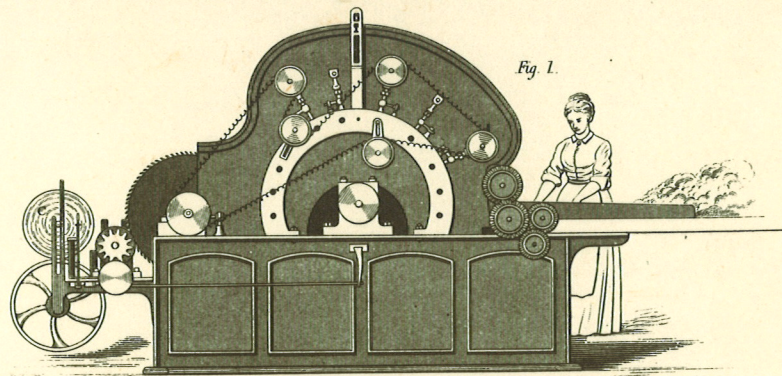


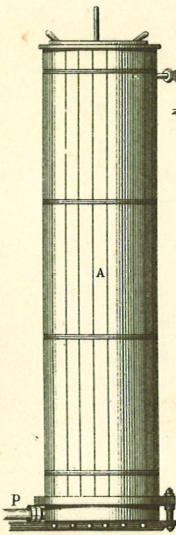
Fig. 4.



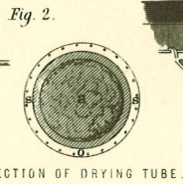




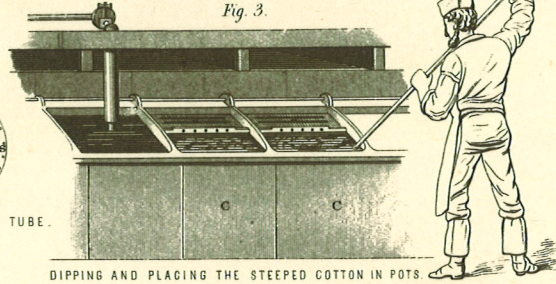
CARDING COTTON TO PREPARE IT FOR DIPPING IN ACIDS.



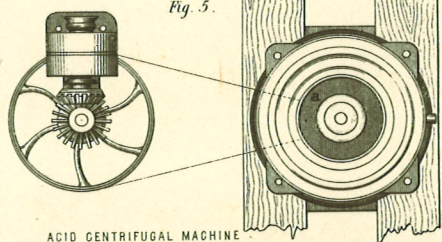
DRYING COTTON BEFORE DIPPING.



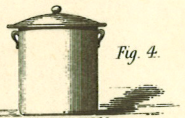
SECTION OF DRYING TUBE.



DIPPING AND PLACING THE STEEPED COTTON IN POTS.



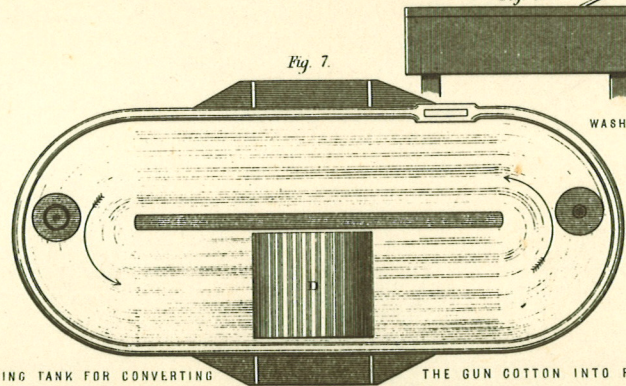
ACID CENTRIFUGAL MACHINE FOR REMOVING THE LARGE EXCESS OF ACID USED IN DIPPING PROCESS.



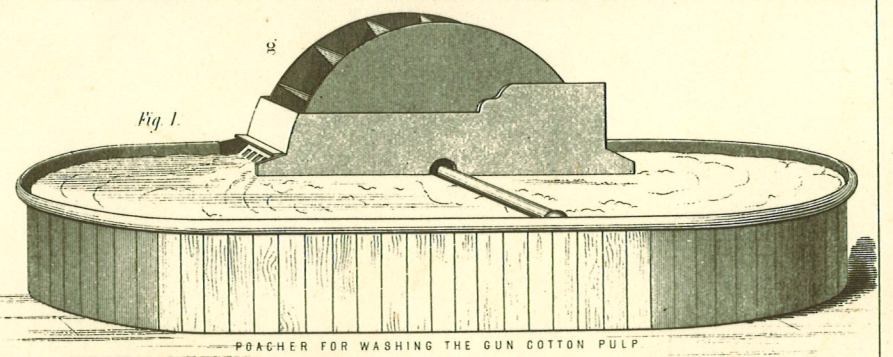
POT FOR HOLDING GUN COTTON AFTER BEING DIPPED.



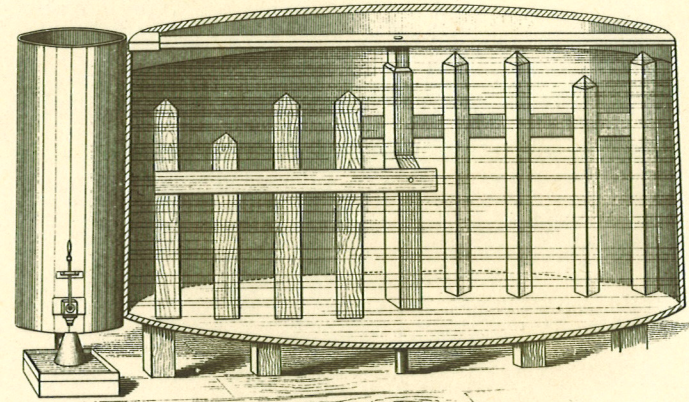
WASHING THE GUN COTTON.



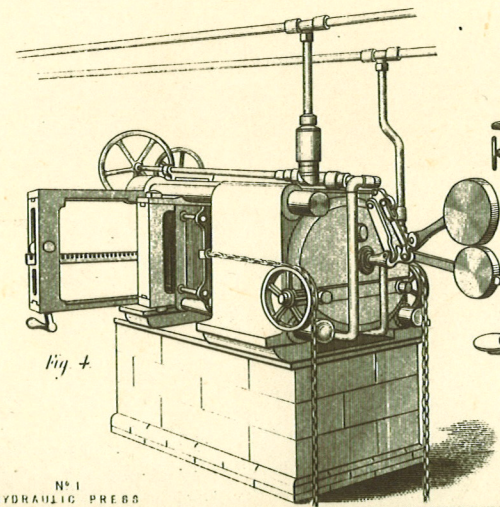
BEATING TANK FOR CONVERTING THE GUN COTTON INTO PULP.



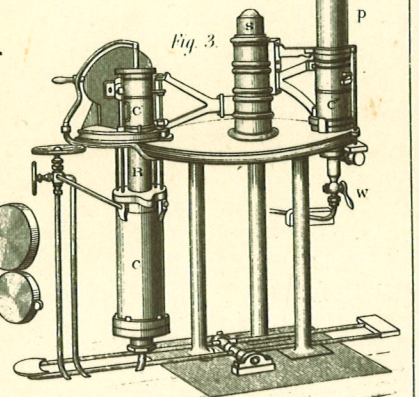
POACHER FOR WASHING THE GUN COTTON PULP.



VAT AND MIXING MACHINE.



№ 1 HYDRAULIC PRESS.



№ 2 HYDRAULIC PRESS.

J. Bushell.