Contributors

Chrysel, Christoph.

Publication/Creation

London : Queen's Printing Office, 1854 (London : George E. Eyre and William Spottiswoode)

Persistent URL

https://wellcomecollection.org/works/d8cntryq

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org



A.D. 1773 Nº 1056.

SPECIFICATION

CHRISTOPHER CHRYSEL.

OF

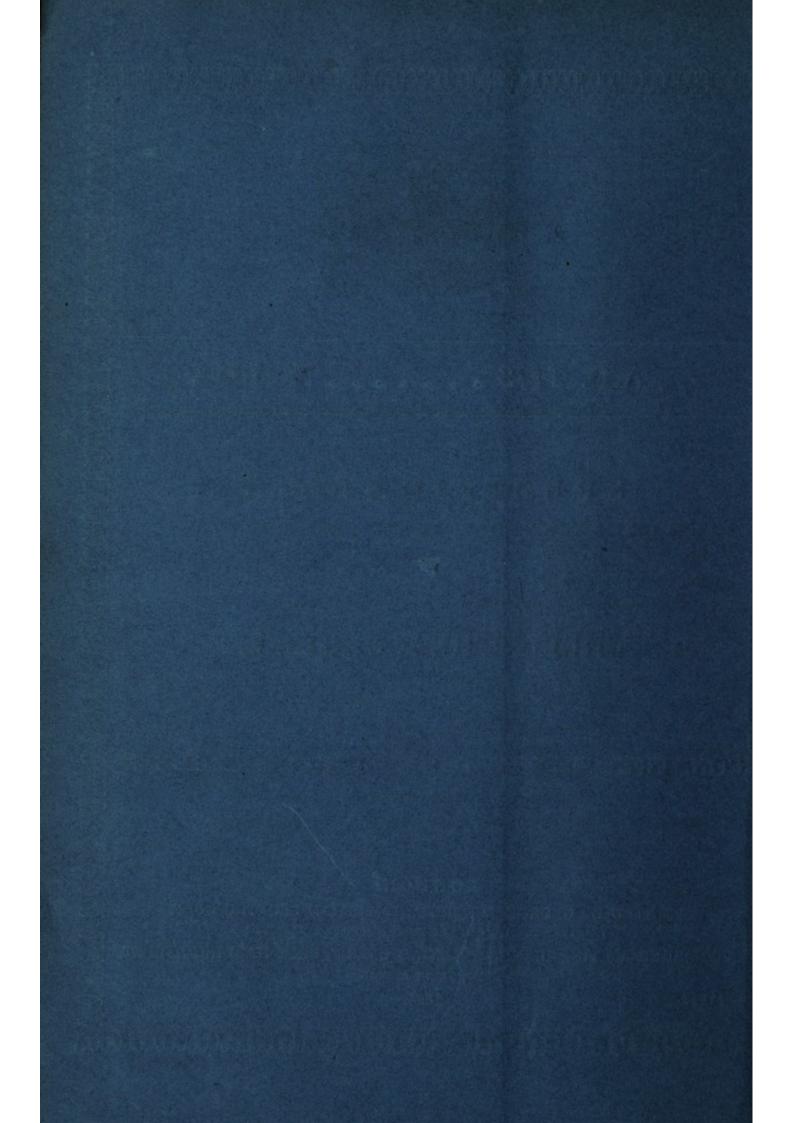
CONSTRUCTION AND SETTING OF BOILERS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE, PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY : PUBLISHED AT THE QUEEN'S PRINTING OFFICE, EAST HARDING STREET, NEAR FLEET STREET.

Price 3d.

1854.





A.D. 1773 Nº 1056.

and the second second

the rail Pressent Patients

Construction and Setting of Boilers.

CHRYSEL'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, CHRISTOPHER CHRYSEL, of the Parish of Saint George, in the County of Gloucester, Engineer, send greeting.

- WHEREAS His most Excellent Majesty King George the Third hath been
 5 graciously pleased, by His Letters Patent under the Great Seal of Great Britain, bearing date the Seventh day of November, in the fourteenth year of His said Majesty's reign, to give and grant unto me, the said Christopher Chrysel, my executors, administrators, and assigns, His special licence, full power, sole privilege and authority, that I, the said Christopher Chrysel, my 10 executors, administrators, and assigns, and every of them, by myself or themselves, or by my or their deputy or deputies, servants or agents, or such others as I, the said Christopher Chrysel, my executors, administrators, and no others, should at any time agree with, and no others, should and lawfully might, from time to time and at all times hereafter during the term of years therein
- 15 expressed, make, use, exercise, and vend, within that part of Great Britain called England, the Dominion of Wales, and Town of Berwick upon Tweed, and also within the Colonies and Plantations abroad, my new invented "METHOD OF CONSTRUCTING AND SETTING BOILERS OF ANY DIMENSION FOR THE USE OF FIRE ENGINES, SALT WORKS, BREWHOUSES, DISTILLERS, SOAP-HOUSES, SUGAR-
- 20 HOUSES, AND SUGAR WORKS," in such manner as to me, my executors, administrators, and assigns, or any of them, should in their discretions seem meet; and that I, the said Christopher Chrysel, my executors, administrators, and assigns, should and lawfully might have and enjoy the whole profit, benefit,

A.D. 1773.-Nº 1056.

Chrysel's Improvements in Constructing and Setting Boilers, &c.

commodity, and advantage from time to time coming, growing, accruing, and arising by reason of the said Invention, to have, hold, exercise, and enjoy the said licence, powers, priviledges, and advantages therein granted unto me, the said Christopher Chrysel, my executors, administrators, and assigns, for and during and unto the full end and term of fourteen years from the date of the 5 said Letters Patent next and immediately ensuing, and fully to be compleat and ended, according to the Statute in such case made and provided; and whereas, in the said Letters Patent, there is contained a proviso that I, the said Christopher Chrysel, should particularly describe and ascertain the nature of my said Invention, and in what manner the same is performed, by an 10 instrument in writing under my hand and seal, and cause the same to be inrolled in the High Court of Chancery within four calendar months next after the date of the said Letters Patent, as in and by the said Letters Patent, relation being thereunto had, will more fully and at large appear.

NOW KNOW YE, that in obedience to the said Letters Patent, and the 15 proviso therein contained, I, the said Christopher Crysel, do hereby declare my said new invented method of constructing and setting boilers, is made and performed in manner following (that is to say):---

The boilers, coppers, and pans, containing four or more feet deep of water or liquors, are to be changed into shallow boilers of about one foot in depth 20 and of a convenient length and breadth, containing either the same quantity of water or liquors, or double or treble the quantity, which will make no difference in the quantity of fuel required. But in the boilers of the fire engines the depth of the shallow boilers must be about two feet and an half, whereof half a foot is assigned to the depth of the water, and two feet for the 25 confinement of the steam. Thus changing the large deep boilers, coppers, and pans into proportionable shallow boilers is the first part, and of very great advantage, paving the way for the second part, which is properly the principal cause, as it is the means of saving of one half part of the coals and fuel otherwise burnt, and of a quicker dispatch of business in every respect, by a pecu- 30 liar method of setting the said shallow boilers upon a small furnace and serpentine flue contrived in such manner that the fire goes out of the furnace in full flames under the whole bottom of the shallow boiler for about a hundred feet ascending to the top of the chimney. The furnace flue and chimney are according to the smaller or larger dimensions of the shallow boilers in a 35 geometrical proportion one with the other; two regulators are also added, one for regulating the access of the free air, and the other for regulating the exit of the fire flames and smoak. The materials unto furnace flue and chimney are good fire bricks, Stourbridge and Windsor loom; the whole may be fitted

A.D. 1773.—N° 1056.

Chrysel's Improvements in Constructing and Setting Boilers, &c.

up and adjusted to any purpose, and different degrees of fire and fuel, such as common pit coals, turf pits, faggots, split wood, and the like, may be used for different intents and purposes. But when candle, coals, coaks, or charcoal are the fuel used, there will be a great advantage by building a coal magazine con-5 taining about a ton, more or less, whereby the fire will be constantly supplied without assistance, and will last 24, 36, 48, or 60 hours, according to the given degree of fire, without any addition of fuel during that time, so that the workmen may sleep all night without fear of the fire going out, the boiler growing cold, or the business stopping.

In witness whereof, I have hereunto set my hand and seal, the Eighth day of March, in the fourteenth year of the reign of our Sovereign Lord George the Third, by the grace of God of Great Britain, France, and Ireland, King, Defender of the Faith, and so forth, and in the year of our Lord One thousand seven hundred and seventy-four.

CHRISTOPHER CRISEL. (L.S.)

Signed, sealed, and delivered (being first duly stamped) in the presence of

D. CATLING,

HENY CHESTER WYNTER.

AND BE IT REMEMBERED, that on the Eighth day of March, in the year of our Lord 1774, the aforesaid Christopher Chrysel came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained and specified, in form 25 above written. And also the Specification aforesaid was stampt according to the tenor of the Statute made in the Sixth year of the reign of the late King and Queen William and Mary of England, and so forth.

> Inrolled the Eighth day of March, in the year of our Lord One thousand seven hundred and seventy four.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE, Printers to the Queen's most Excellent Majesty. 1854.

15

20

10

ANGUIS

A.D. 1778-Nº 1056.

8.

Compart & Internationale in Constructing and Schlag Haller, &c.

the and adjusted to any panyang data iddiered degree of her and that, and an economy of accels that pain layers, solit would, and the files, may be deed for all layers interies and paryanes. Must when can be, calls, calls, or chareral are the full read. There will be a green a break on be bailing a coal mey applied a taining a shart a too, and a first of her whiteher the first file are and the project will an moletanes, and will first of t, 36, 48, or 60 hours, according to the given of the fact and first whiteher a think or 60 hours, according to the given will an ansistance, and will first of t, 36, 48, or 60 hours, according to the given of the fact and the set of the solution of first the first of the first first of the project of the solution of the solution of first first first for the solution of the solution and the solution of solution of first firs

In mitness where it, I have hereints and my hand and shelt, the Fightin day of March, in the fourteents your of the miral of our Severeign Lord Greet Greeter the Taket. It the grate of God of Greet Initain, France, and Ireland, Hing, Petroles of the Falil, and so hath, and in the year of our first One foreened seven hundred and seventy-four.

gainei, herre dell'energiante alute terre-

Mar Chaman Wrynn.

"A it and an a state of the atmostic the fight has be determined by a blanch, in the rest of can have 1774; the atmostic Christopher Chrysel same before can the land the king in MR Chancery, and acknowledged the Specification from written. And also have performed restained and specification there written. And also have performed pear of the teign of the late his firm her tenor of the States mede in the first pear of the teign of the late his first and there witten and Mary of Fordard and so for the teign of the late his first

Louilled the Lighth day of March, in the year of our Lord One thenessed

LONDON: