

Disclaimer and memorandum of alteration of John Ridgway to specification of George Robins Booth : construction of hearths, kilns, furnaces of steam boilers, &c.;

Contributors

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A.D. 1843 N° 9784*.

DISCLAIMER AND MEMORANDUM OF ALTERATION

OF

JOHN RIDGWAY

TO

SPECIFICATION OF GEORGE ROBINS BOOTH.

CONSTRUCTION OF HEARTHS, KILNS,
FURNACES OF STEAM BOILERS, &c.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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1858.

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

PHYSICAL CHEMISTRY

REPORT OF THE

COMMISSIONERS OF THE



A.D. 1843 N^o 9784*.

Construction of Hearths, Kilns, Furnaces of Steam
Boilers, &c.

RIDGWAY'S DISCLAIMER AND MEMORANDUM OF ALTERA-
TION TO BOOTH'S SPECIFICATION.

In the Matter of Letters Patent granted to GEORGE ROBINS BOOTH,
of Hanley, in the County of Stafford, Manufacturer and Chemist,
bearing date at Westminster, the Fifteenth day of June, in the sixth
year of the reign of Her Majesty, and in the year of our Lord One
thousand eight hundred and forty-three, for an Invention of "**A**
CERTAIN IMPROVED MODE OF APPLYING HEAT FROM VARIOUS COMBUSTIBLES
TO MANUFACTURING AND OTHER USEFUL PURPOSES," which said Letters
Patent are assigned to JOHN RIDGWAY, of Caudon Place, in the
County of Stafford, China Manufacturer.

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- DISCLAIMER AND MEMORANDUM OF ALTERATION** to be entered with
the Clerk of the Patents of England, pursuant to an Act made and passed
in the Session of Parliament held in the fifth and sixth years of the reign
of His late Majesty King William the Fourth, entitled "An Act to
" amend the Law touching Letters Patent for Inventions," and another
Act of Parliament made and passed in the Session of Parliament held in
the seventh and eighth years of the reign of Her Majesty Queen Victoria,
and entitled "An Act for amending an Act passed in the fourth year of
" the reign of His late Majesty, entitled 'An Act for the better Adminis-
" ' tration of Justice in His Majesty's Privy Council, and to extend its
" ' Jurisdiction and Powers.'"

WHEREAS the said George Robins Booth in the Specification of the
said Letters Patent did declare the nature of the said Invention, and the
manner in which the same was to be performed, to be particularly described

Booth's Improvements in Applying Heat, &c. to Manufacturing Purposes.

and ascertained in and by the Drawings thereto annexed, and the explanation thereof therein given: And whereas doubts have arisen as to the meaning of certain passages in the said Specification, and as to whether some of the statements therein contained may not be understood as claiming certain parts of the arrangements, and the use of certain materials and substances, otherwise than in connection with the kiln shewn in the Drawings: And whereas I am desirous of removing all doubts as to the meaning of the said Specification by disclaiming such parts of the said Specification as have given rise to doubts, and of limiting my claim as herein-after mentioned: And whereas I, the said John Ridgway, am desirous of entering a Memorandum of Alteration as to such parts of the said Specification as may be necessary for the purposes aforesaid, in order to render such Specification consistent with itself after the same shall have been altered, as above mentioned: And whereas for the reasons aforesaid I, the said John Ridgway, am desirous of entering a Disclaimer and Memorandum of Alteration, as herein-after mentioned, and have obtained leave of Her Majesty's Attorney General, certified by his fiat and signature, according to the form of the Statute in such case made and provided.

KNOW YE, THEREFORE, that I, the said John Ridgway, do hereby disclaim the following parts of the said Specification, and do alter the said Specification in the manner herein-after mentioned, that is to say, I disclaim the words, "this is regulated by the object to which the heat is to be applied, " as herein-after explained, in the mode of using and combining some or all of " the various combustibles which are herein-after explained," near the commencement of the said Specification; also the words, "and the arrangement of " the whole, thereby allowing the oven to be of any shape, as before named, " either square, oblong, or polygonal, and the application of the substance " I call poizee," and with or without a brick or iron lining on the outer side. And "further on in the said Specification, in the description of Sheet I. of the Drawings, also the words, "And in this case as most conducive to free combustion, I claim the perfect freedom from apertures, flues, or openings in all " parts of the apparatus except at the bars and at the top, this being in " contradistinction to all plans now in use in ovens employed for these " purposes." Further on in the said description also the words, "I claim also " for the smallness of the size of the tube, which is only six or eight inches " diameter within, or thereabouts, whilst in ordinary biscuit or 'glost' ovens " the bags or tubes are generally about eighteen or twenty-four inches. This " tube must be only three or three and a half inches thick for half way up its " height, and one inch for the thickness of the remaining half for 'glost' heats,

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“ and in order that the heat may more easily radiate through, as there is the
“ same required for greater heats, but a little increase of from about half to
“ one inch, I claim for each increase; whereas tubes that are used in common
“ ovens are of one thickness only. As regards the bars, I claim for the few
5 “ in number that are used in this process, and the smallness of their dimensions,
“ as well as the mode of placing them one over another; thereby I am enabled
“ to furnish a fresh supply of bars whilst firing the oven. Further on in the
said Specification also the words, “ I claim the small chamber above the top of
“ the large chamber, and for the small apertures therein. And, lastly, the
10 “ use or employment of coke, charcoal, peat, coal, cannel, and wood, either
“ separately or combined, as being entirely new, as applied to these manu-
“ factures.” Further on in the said description also the words, “ I claim, as
“ regards this application of my Invention, the whole of the novel process,
“ apparatus, mode, and combustibles, as employed in the operation; the whole
15 “ being a hot air apparatus. I also claim the variation of the shape of the
“ chamber, hearth, &c.” Further on in the said Specification, at the con-
clusion of the description of Figure 3 of the said Drawings, also the words
“ I claim also under this head the smallness of the dimensions of my chimney
“ when compared with the ordinary chimneys in use for such purposes, and
20 “ for fixing the same in the centre, over the top of the kiln; or, if more than
“ one, for the same being placed in a line transversely across the centre of the
“ kiln. I claim the conical tube in the enamel kiln and the bars of the hearth
“ being placed directly under the kiln, having the fire hearth without or
“ within the kiln, and the hearth immediately below the kiln, and for lining
25 “ or coating of the said tube with fire clay in manner therein specified, and for
“ the conical casing of iron and the mode of using it therein. I also claim as
“ new the arrangement whereby the hearth is fed with fuel from the top of
“ the kiln or through the bars, and for the door of the hearth being placed at
“ the top of the kiln. As my Invention has introduced the use of coke for
30 “ the first time for enamelling kiln purposes, I claim its sole use for those
“ purposes; in like manner I claim the sole use of coke in hardening on, and
“ in all other purposes which are specified and named in these applications;
“ the whole being a new adaptation of this combustible to these useful
“ purposes. Lastly, I claim the sole right of applying these kilns, &c., as
35 “ herein described, to the process of hardening on, should the same kilns be
“ preferred to the common ones, or for more delicate colors, and for thus
“ introducing iron kilns for hardening on, which is quite new as applied to
“ such purposes.” Further on in the said Specification, in the description of
Sheet 2 of the said Drawings, also the words, “ With reference to this applica-

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“ tion of my improved mode of applying heat, I claim for the general use of
“ coke and of coal jointly, or for combustibles producing inflammable gases
“ being mixed or used at the same time with combustibles not producing
“ inflammable gases, which this mode of creating heat has pointed out as of
“ practical utility in the hearths of common boilers, and especially in some of 5
“ these constructions. I claim for all parts of my apparatus as specified,
“ named, or claimed under all other applications herein-before specified and
“ named, and now described and shewn as applied for this purpose, that is,
“ whether for land or marine services, and whether the one or the other be
“ used for either purpose, as particularized in my Specification, for the tubes 10
“ in the boilers, the hearths under or in them, the basins surrounding the
“ tubes, whether the said basins be round, square, or of any other form. I
“ also claim making the ‘poizee’ walls of the chamber into hollow vessels (of
“ iron) for containing water, and thus generating steam. I claim for the
“ less thickness of the tube S in this case than in its other applications, and 15
“ for the mode of constructing and making the tube, and for using casings
“ within the hearths when the said hearths are within the boilers, of whatso-
“ ever material they may be made; and for the use of dampers upon the vents
“ or chimnies, and for the particular construction of the vents.” Towards the
end of the said Specification, and in the last sentence of the said Specification, 20
I erase the words “all other,” and substitute the word “the,” in order to make
the Specification as altered consistent with itself. And I hereby further
declare that the improved mode of applying heat from various combustibles to
manufacturing and other useful purposes, claimed to be protected by the said
Letters Patent, consists in the application of heat by means of kilns, so con- 25
structed and arranged as that the heat may be generated below or at the
level of the floor of the chamber, may ascend to the top of the chamber, and
escape by vents at or near the floor, as represented in the Drawings to the said
Specification annexed. And I, the said John Ridgway, do hereby declare that
I disclaim the exclusive use of the several parts shewn in the said Drawings 30
and referred to in the said Specification, and of the various materials and
substances mentioned in the said Specification, except when such parts are
used in combination for the purposes therein described, with a kiln constructed
as above mentioned.

In witness whereof, I, the said John Ridgway, have hereunto set my 35
hand and seal, this Fourth day of November, One thousand eight
hundred and fifty.

JOHN (L.S.) RIDGWAY.

Booth's Improvements in Applying Heat, &c. to Manufacturing Purposes.

To the Clerk of the Patents of England.

This is to certify, that John Ridgway, of Cauldon Place, in the County of Stafford, China Manufacturer, has applied to me for leave to enter with you the above written Disclaimer and Memorandum of Alteration of a certain
 5 Invention for which Letters Patent were duly granted to George Robins Booth, of Hanley, in the County of Stafford, Manufacturer and Chemist, under the Great Seal, bearing date the 15th day of June 1843, and to which the Specification was duly enrolled; and on considering the said application, and no objection having been made thereto, I have accordingly granted leave to
 10 the said John Ridgway to file his said Disclaimer and Memorandum of Alteration, pursuant to the Statute passed in the 5th & 6th years of the reign of His late Majesty, entitled an Act to amend the Law touching Letters Patent for Invention.

JOHN ROMILLY.

15 Lincoln's Inn, 12th Nov^r. 1850.

Entered and filed with the Clerk of the Patents
 for England, this 16th day of November, 1850.

Great Seal
 Patent Office.

AND BE IT REMEMBERED, that on the Fourth day of November, in the year of our Lord 1850, the aforesaid John Ridgway came before our said
 20 Lady the Queen in Her Chancery, and acknowledged the Disclaimer aforesaid, and all and everything therein contained and specified, in form above written. And also the Disclaimer aforesaid was stamped according to the tenor of the Statute made for that purpose.

Enrolled the Sixteenth day of November, in the year of our Lord One
 25 thousand eight hundred and fifty.

CHALLINOR, Extra.

LONDON:

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 Printers to the Queen's most Excellent Majesty. 1858.

