

Specification of Charles Broderip : vessels to be used in heating fluids.

Contributors

Broderip, Charles.

Publication/Creation

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

Persistent URL

<https://wellcomecollection.org/works/m4jkxkqb>

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. 1813 N° 3690.

S P E C I F I C A T I O N

OF

CHARLES BRODERIP.

VESSELS TO BE USED IN HEATING
FLUIDS, &c.

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 8d.

1854.

13





A.D. 1813 N° 3690.

Vessels to be used in Heating Fluids, &c.

BRODERIP'S SPECIFICATION.

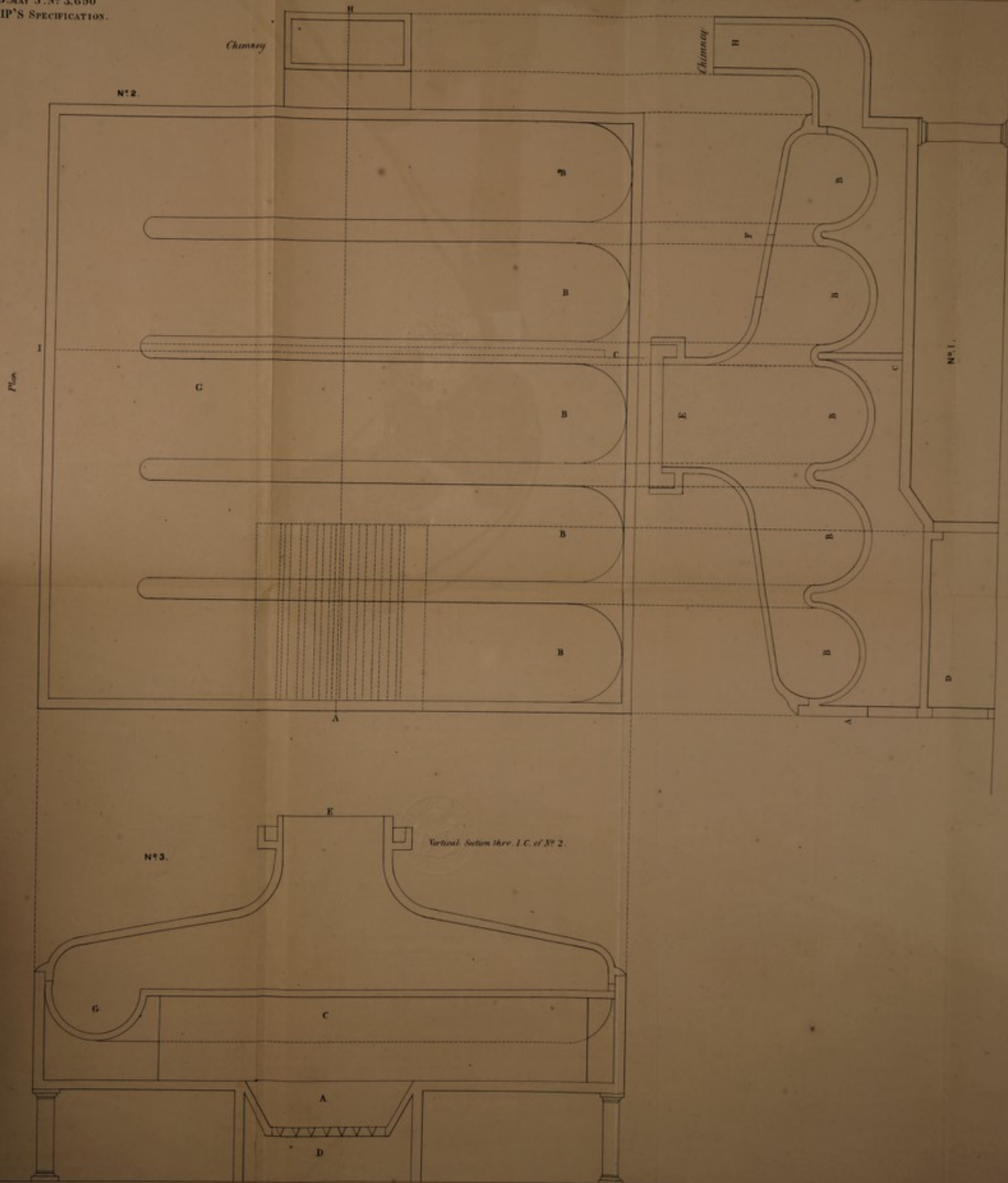
TO ALL TO WHOM THESE PRESENTS SHALL COME, I, CHARLES BRODERIP, of Great Portland Street, in the County of Middlesex, Gentleman, send greeting.

WHEREAS His most Excellent Majesty King George the Third did, by His
5 Letters Patent under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Fifth day of May, in the fifty-third year of His reign, give and grant unto me, the said Charles Broderip, my exors, admors, and assigns, His especial licence, sole power, sole privilege and authority, that I, the said Charles Broderip, my exors, admors, and assigns,
10 should and lawfully might, during the term of years therein mentioned, make, use, exercise, and vend, within England, Wales, and the Town of Berwick upon Tweed, and also in all His Majesty's Colonies and Plantations abroad, my Invention of "**AN IMPROVEMENT IN VESSELS TO BE USED IN HEATING FLUIDS AND OTHER SUBSTANCES;**" in which said Letters Patent there is contained a proviso that
15 if I, the said Charles Broderip, shall not particularly describe and ascertain the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, and cause the same to be inrolled in His Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said Letters Patent, that then the
20 said Letters Patent, and all liberties and advantages whatsoever thereby granted, shall utterly cease, determine, and become void, as in and by the same (relation being thereunto had) may more fully and at large appear.

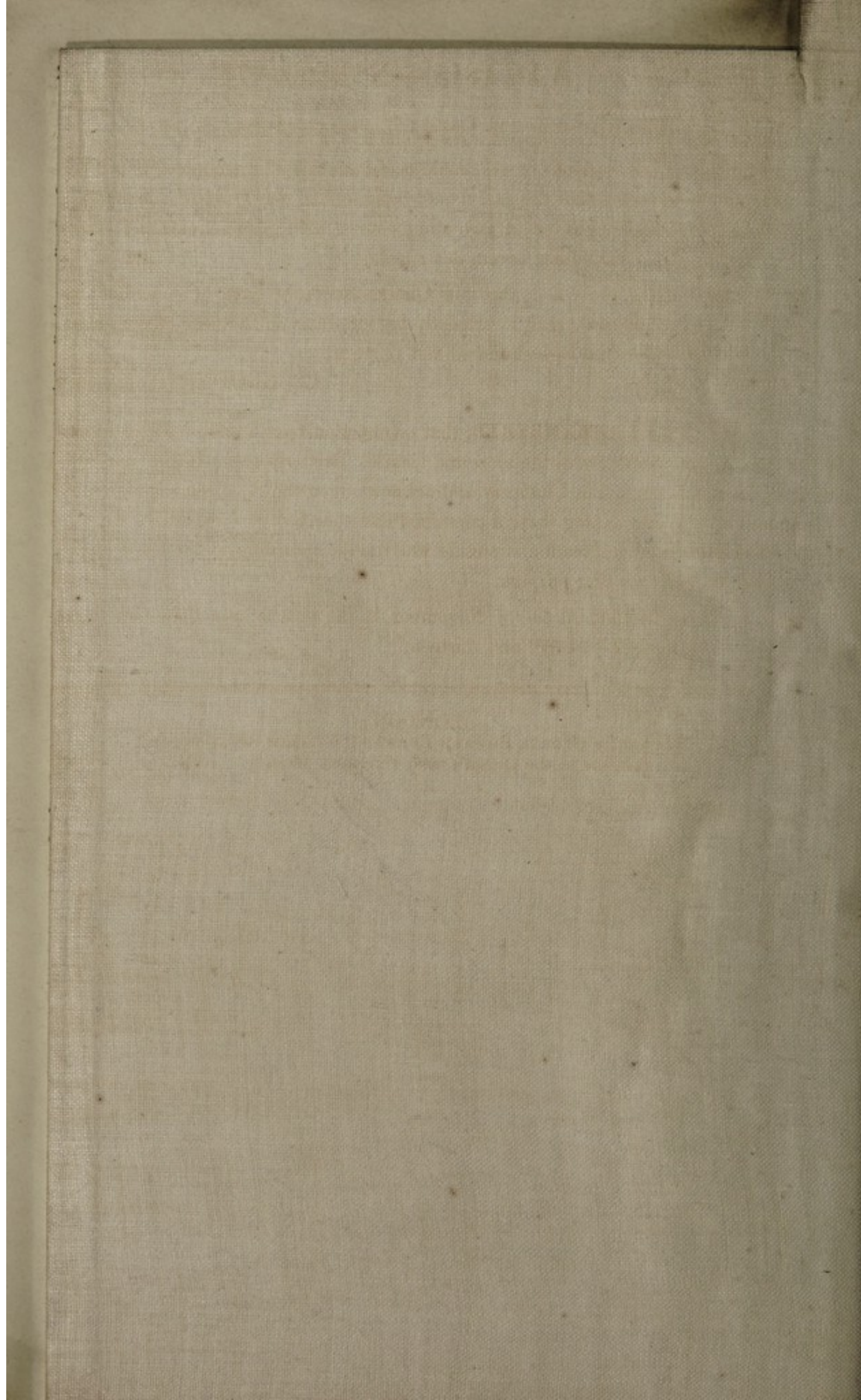
Broderip's Improvement in Vessels to be used in Heating Fluids, &c.

NOW KNOW YE, that in compliance with the said proviso, I, the said Charles Broderip, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are particularly described and ascertained as follows, that is to say:—

I do construct or make the bottoms of my said vessels respectively not flat, 5 nor convex, nor concave throughout, as hath heretofore been done, but so varied as to the internal and external surfaces thereof as to constitute or form two or more troughs or places of capacity below or lower than the rest of the said bottoms, against which and in the parts between the said troughs the action of the heat and ignited vapour is allowed to be exerted. And I do make the said 10 troughs or places of capacity of any convenient form or figure, altho', by preference, I do in practice adopt the semi-cylindrical figure, with an interval between trough and trough of about one-fourth part of the measure of the diameter of the semi-cylinder. And further, that in such cases as require the contents of the vessel to be stirred or agitated, or in which such stirring or agitation may 15 be preferred or required, I do make use of a chain or chains, rake or rakes, or similar instrument or instruments for that purpose, to act within the said troughs; and in every case I prefer that the vessel should be filled to a little depth only above the parts of the bottom between the said troughs, and that there should be no side flues, or cavities, or channells, by means of which the heat can or 20 may apply to any space of the surface of the vessel, which is or may be above the fluids or other substances therein to be heated. And further, that the said construction of the bottoms of my said vessels may be made with various dimensions and relative situations of the several parts, according to the local circumstances and particular uses of the same. But that the whole of my said 25 Invention may be fully understood and carried into effect from the description herein-before made, and from the Drawing hereunto annexed and figured N^o 1, N^o 2, N^o 3, every one of which Figures denote one and the same still or vessel for distillation, duly placed and set in its furnace, and the same letters of the alphabet do everywhere denote the same parts or things, viz^t: A denotes the 30 fire-place; B, B, B, B, B, the troughs, of a semi-cylindrical form, with intervals between each; C, a wall or obstacle for obstructing the course of the flame or ignited and other vapor or air in its passage to the remoter troughs, in order that the effect may be made more powerful. G is a cross trough communicating with each of the other troughs, and round which the flame or ignited 35 other vapor or air passes from the other troughs, and afterwards ascends the chimney. D is the ash hole; E, the head or crown of the still; F, the man-hole; H, the chimney. And, lastly, I do declare that it is not essentially necessary that the troughs and fire-place should be so placed as that the flame



The vertical drawing is a section of



Broderip's Improvement in Vessels to be used in Heating Fluids, &c.

or ignited or other vapour or air should cross the line of direction or length of the said troughs, but that the said flame, vapor, or air, may also be made to move along the said troughs or in any other course with good effect, altho' I do generally prefer the course herein described.

5 In witness whereof, I, the said Charles Broderip, have hereunto set my hand and seal, this Fourteenth day of June, in the year of our Lord One thousand eight hundred and thirteen.

C. BRODERIP (L.S.)

10 **AND BE IT REMEMBERED**, that on the Fourteenth day of June, in the year of our Lord 1813, the aforesaid Charles Broderip came before our said Lord the King in His Chancery and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stampd according to the tenor of the Statute made for that purpose.

15 Inrolled the Third day of November, in the year of our Lord One thousand eight hundred and thirteen.

LONDON:

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

