Specification of Allan Pollock : stoves, grates and fire-places.

Contributors

Pollock, Allan.

Publication/Creation

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

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A.D. 1807 . . . . . N° 3049.

SPECIFICATION

OF

ALLAN POLLOCK.

STOVES, GRATES, AND FIRE-PLACES.

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,
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Price 1s. 1d.

1854.

A.D. 1807 . . . . . N° 3049.

Stoves, Grates, and Fire-places.

POLLOCK'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ALLAN POLLOCK, of Paisley, North Britain, Merchant, do send greeting.

WHEREAS His most Excellent Majesty King George the Third, by His Letters Patent under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Eleventh day of June, in the forty-seventh year of His reign, did give and grant unto me, the said Allan Pollock, my executors, administrators, and assigns, His special licence, full power, sole privilege and authority, that I, the said Allan Pollock, my executors, administrators, and assigns, during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick upon Tweed, and in His Majesty's Colonies and Plantations abroad, "MY STOVE ON A NEW CONSTRUCTION, AND VARIOUS IMPROVEMENTS APPLICABLE TO STOVES, GRATES, AND FIRE-PLACES;" in which Letters Patent there is contained a proviso, obliging me, the said Allan Pollock, under my hand and seal, to cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, to be inrolled in His Majesty's High Court of Chancery within four calendar months next and immediately after the date of the said recited Letters Patent, as in and by the same (relation being thereunto had) may more fully and at large appear.

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

In the Drawings hereunto annexed, Fig. 1 represents a perspective view of my said stove in one of the various forms in which the same may be constructed; and Fig. 2 represents the same by a vertical section, shewing the interior parts in their relative situations; and the Figures 3, 4, 5, 6, 7, and 8,

shew several of the same parts detached and separate. In the lower compartment of the said stove is placed the fire-place or grate, set in or surrounded with brick or fire stone, or other material of the like nature, as represented by the parts of the said Drawings, which are coloured yellow, and behind, or (if thought fit) on any or either or all the sides, except that in which the doors are made, I dispose and fix a second back or exterior part of iron, which, along with the piece A, C, Fig. 4, (in which a set of edge bars or shelves are cast or fixed) doth afford a winding passage, through which, air being admitted at the lower part from without, by means of an aperture or apertures left for that purpose, becomes heated by contact with the stove to a suitable temperature, but cannot be decomposed or subjected to any chemical change, because the interposed mass of brick or fire stone, or other material of like nature, prevents the iron or metallic parts from being too strongly heated; and the said heated air ascends from the said winding passage into the pipe W, W, and thence into the apartment, through suitable openings in the vase or other ornamental piece, at top. The space between I the grate, and R the upper part of the fire-place, is partly closed by a covering or piece represented and denoted by the same letter R in the Figures 5, 6. In Fig. 5, the piece R is surmounted by other similar pieces S and T, more or less in number, as may be required, which are fixed thereto in the manner there shewn, and when the said compound piece, Fig. 5, is duly placed in the upper part of the stove, as represented in Fig. 2, the smoke and impure or decomposed air from the fire is made to ascend by a circuitous or helical course through the several openings, where its heat is communicated to the pipe W, W, and to the body of the stove, previous to its escape, which is permitted through the chimney Q. And I do further declare, that in order the more effectually to prevent any decomposition or chemical change from being effected at the inner surface of the said pipe W, W, or at any other of the surfaces at which air is intended to be heated and introduced into apartments, it is expedient and of importance that the said surfaces should possess a hard and glassy coating, for which purpose I do expressly add such a proportion of lime or other fit material to the sand or loam to be made use of in forming my moulds, cores, or other receptacles or pieces in or upon which the metal is to be cast, as shall render the said sand or loam partially or to such a degree fusible that the action of the heat from the fluid and ignited metal shall convert a certain portion of the said sand or loam into a glassy coating, adhering to and defending the face thereof from such decomposition or chemical change. And further, that as to the nature and proportions of lime or other fit material so to be added, I do declare that the same will require to be varied according to the nature and component

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POLLOCK'S SPECIFICATION.

FIG. 1.

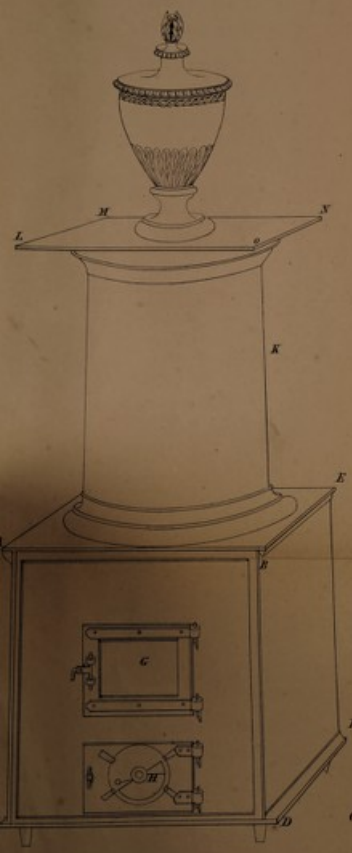


FIG. 2.

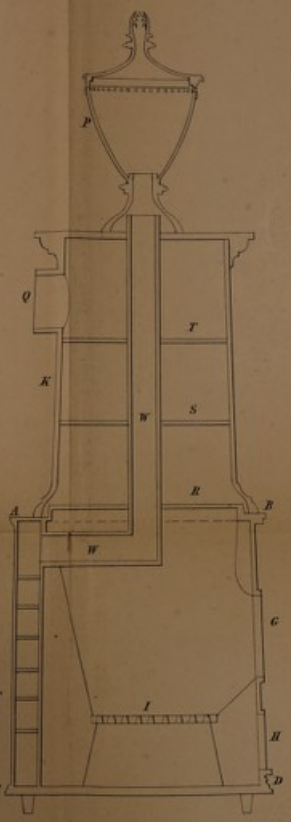


FIG. 5.

FIG. 8.

FIG. 7.

FIG. 6.

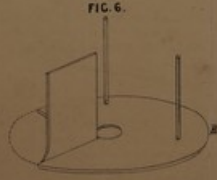


FIG. 9.

FIG. 10.

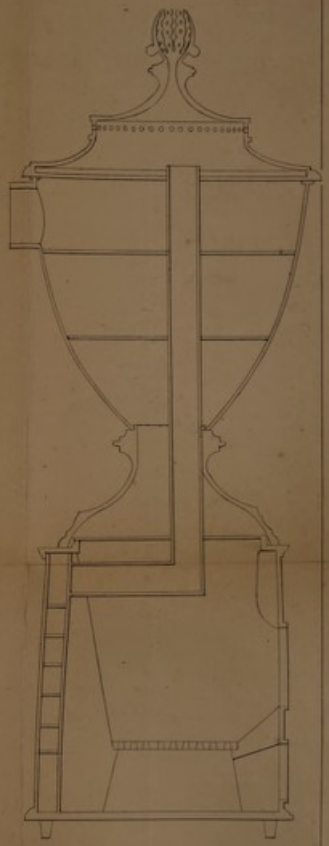


FIG. 4.

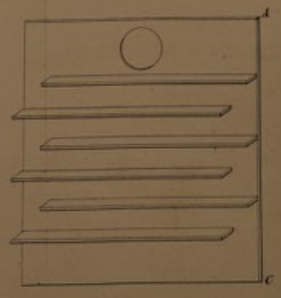
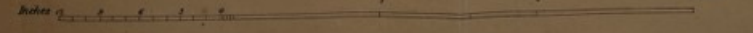


FIG. 3.



The unrolled drawing is colored.

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FIG. 11.

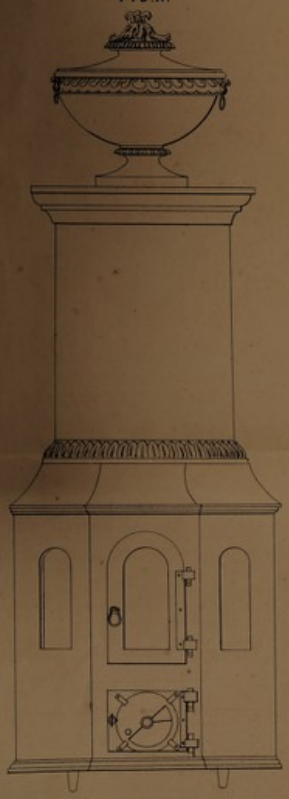


FIG. 12.

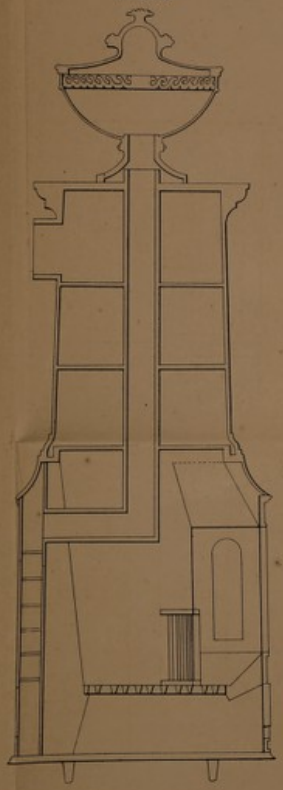


FIG. 15.

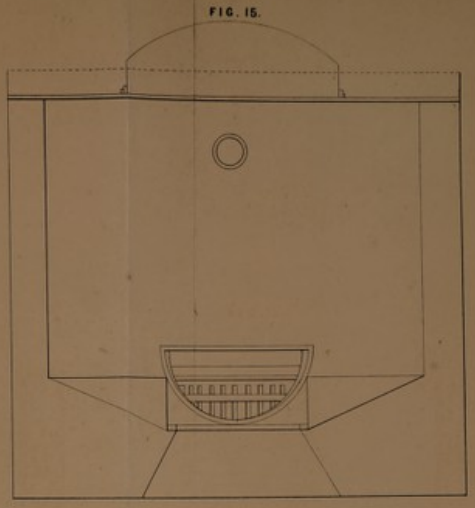


FIG. 16.

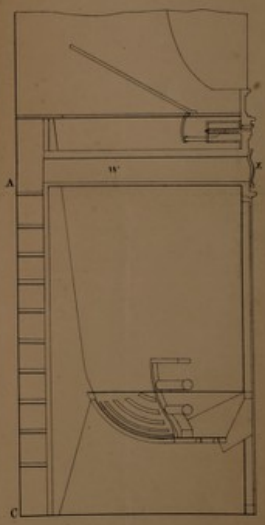


FIG. 14.

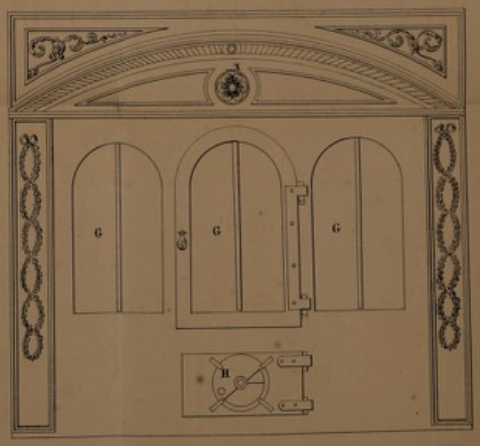
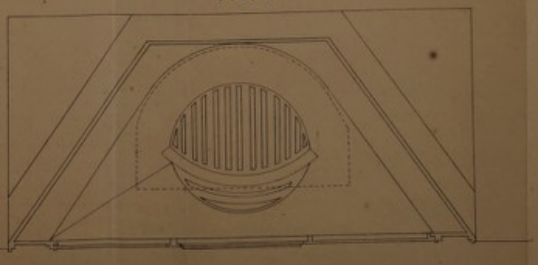


FIG. 13.

FIG. 17.



The enrolled drawing is colored.

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part of the said sand or loam, and may be determined in each particular case by a few trials upon principles already well known to chemists and others. Figures 9 and 10, and Fig. 11 and 12, represent other forms of my said stove, which is capable of great variation in its figure, and may, if required, be made in any or all the parts thereof of earthy materials, such as natural or artificial stone or pottery, or the like, instead of using metal; and in these, as well as in all other constructions, and in such cases as it may be desired that the fire should be seen without opening the doors or other apertures of communication between the apartment and the fire-place, I do close or glaze the said doors or apertures, or any or all of them, with the material called talc, or Muscovy talc, set, fixed, or secured therein in a workmanlike manner. And, lastly, I do apply and use to and with other stoves, grates, and fire-places, as improvements in the same, my method of interposing brick or fire stone, or other material of the like nature, between the fire-place, and a metallic channel or flue for heating air; and also my method of coating the metal with a glassy covering; and also my method of admitting the fire to be seen without opening the doors or apertures, by means of a closing or glazing of talc, as the said methods are herein-before described and explained. And in order that the same may be more clearly understood, I have shewn in Figures 14, 15, 16, and 17, a common register stove having the said improvements, and being closed in front by a metallic plate, in which are seen the doors or apertures G, G, G, and H, the former of which, G, G, G, are glazed with talc.

In witness whereof, I, the said Allan Pollock, have hereunto set my hand and seal, this Tenth day of October, in the year of our Lord One thousand eight hundred and seven.

ALLAN (L.S.) POLLOCK.

AND BE IT REMEMBERED, that on the Tenth day of October, in the forty-seventh year of the reign of His Majesty King George the Third, the said Allan Pollock came before our said Lord the King in His Chancery, and acknowledged the instrument aforesaid, and all and everything therein contained and specified, in form above written. And also the instrument aforesaid was stamped according to the tenor of the Statute made in the forty-fourth year of His said Majesty's reign.

Inrolled the Tenth day of October, One thousand eight hundred and seven.

MORRIS.

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