

(No Model.)

W, L. & B. WICKERS.
Tile Kiln.

No. 229,848.

Patented July 13, 1880.

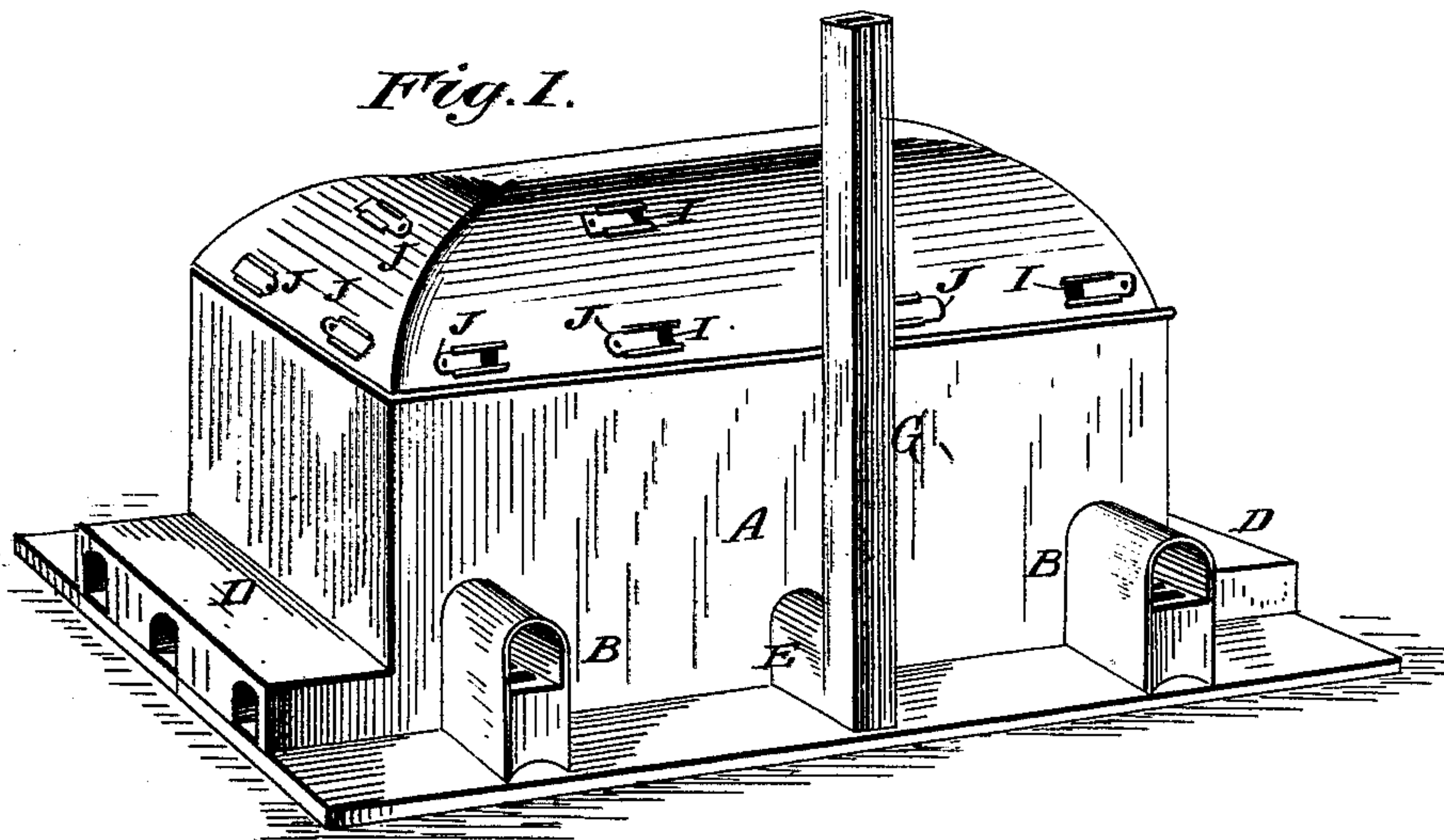


Fig. 2.

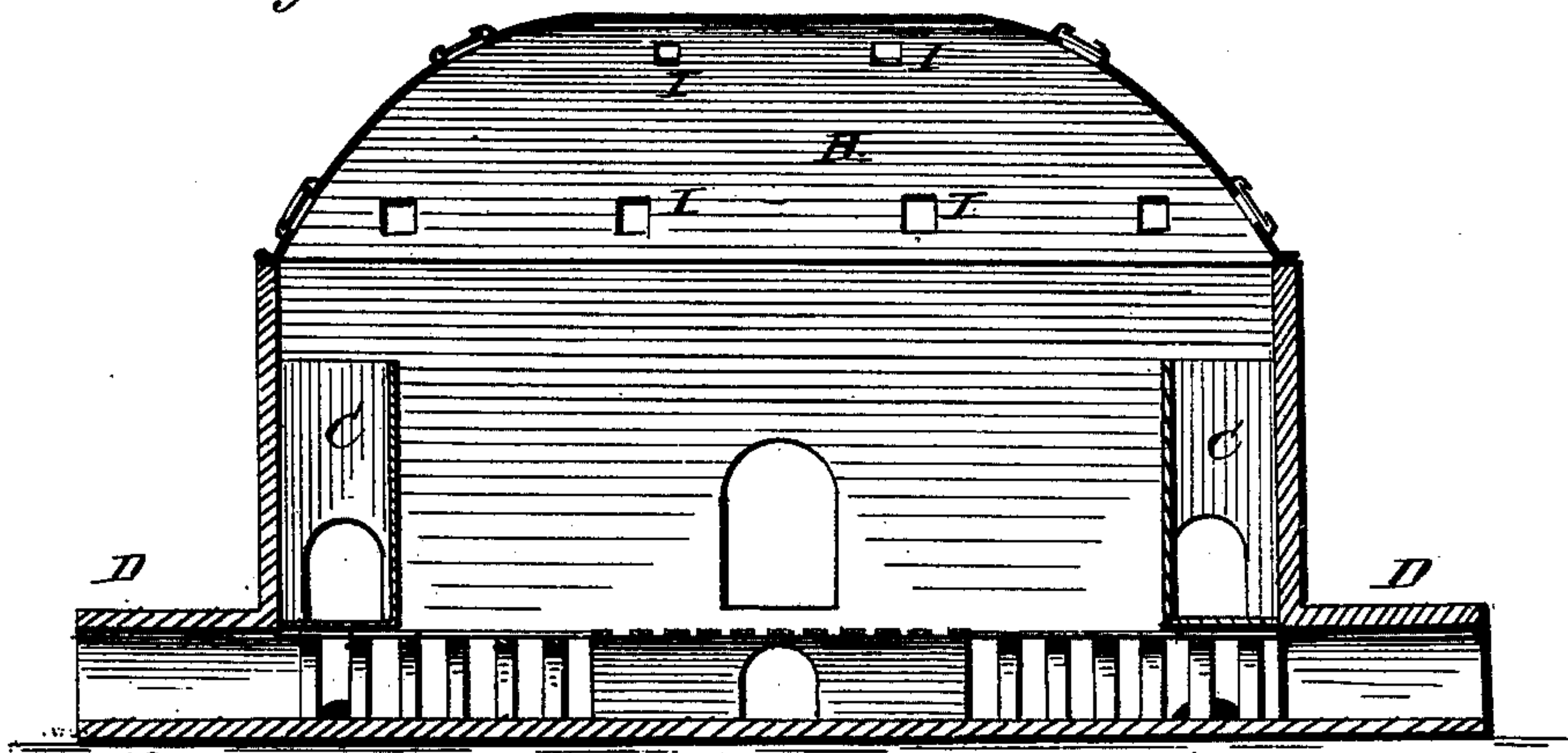
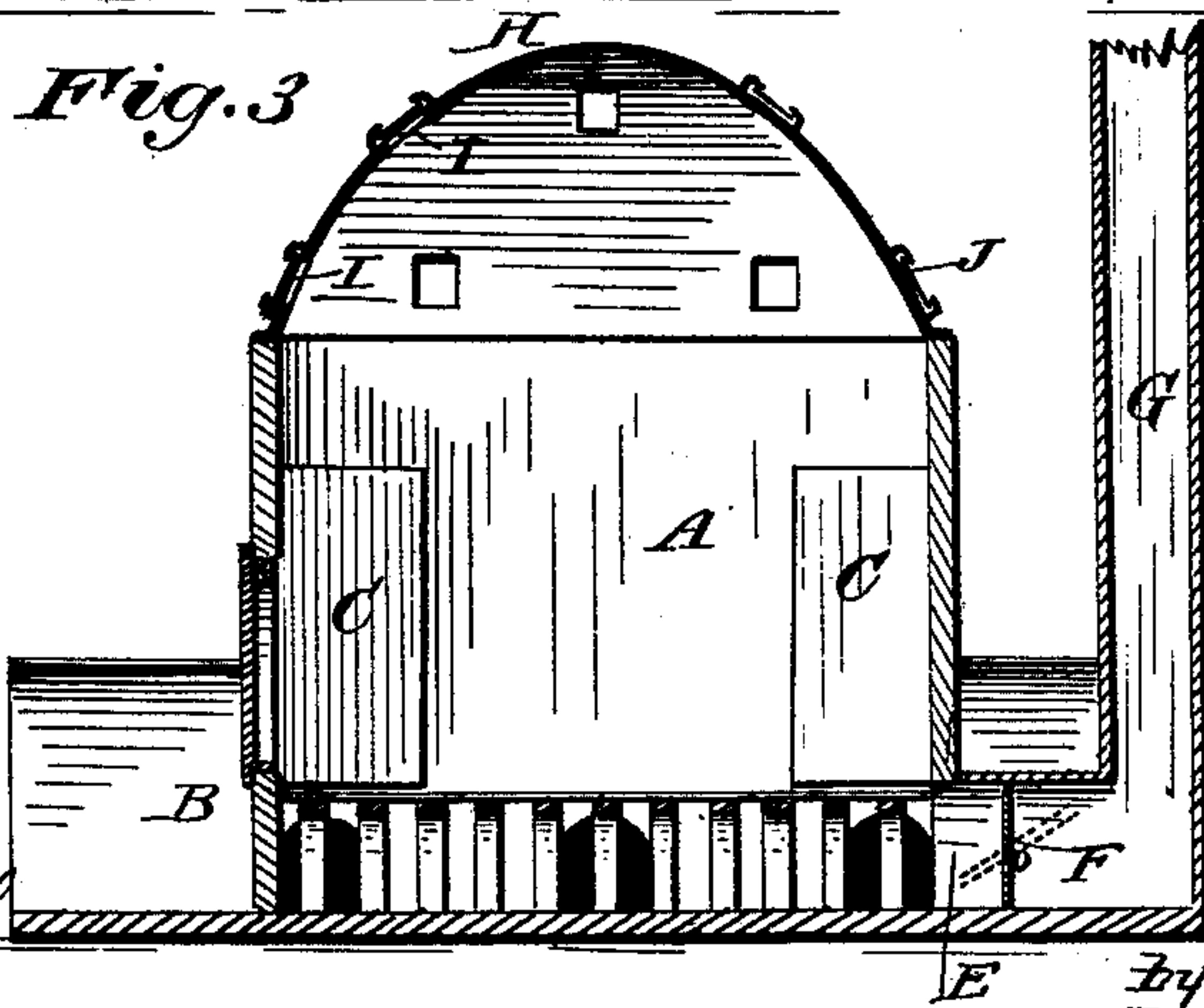


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM WICKERS, LOUIS WICKERS, AND BARNY WICKERS, OF LEBANON,
INDIANA.

TILE-KILN.

SPECIFICATION forming part of Letters Patent No. 229,848, dated July 13, 1880.

Application filed May 22, 1880. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM WICKERS, LOUIS WICKERS, and BARNY WICKERS, of Lebanon, in the county of Boone and State of Indiana, have invented certain new and useful Improvements in Tile-Kilns; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a vertical longitudinal sectional view, and Fig.
15 3 is a vertical cross-section.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to kilns for burning brick and tile; and it consists in certain im-
20 provements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A represents the rectangular body of the kiln, at the
25 sides of which, near the ends, are constructed firing-arches or furnaces B B, from the inner ends of which flues C C extend nearly to the top or crown of the kiln.

D D are separate arches or furnaces, constructed at the ends of the kiln, as shown.

A flue, E, constructed at the bottom of one of the sides of the kiln and provided with a damper, F, leads to the chimney G.

The top or crown H of the kiln is provided
35 with numerous perforations or openings I, which are capable of being closed tightly by means of suitably-constructed slides or dampers J, or in any suitable manner.

The floor or bottom of the kiln is constructed,
40 in the usual manner, of fire-brick, between the several rows of which openings or chinks are left for the admission of draft from the firing-arches.

In operation the openings in the top or crown are at first closed, while we fire up at the cor-
ner arches B B, from which the draft is up 45 through flues C, down through the kiln, and up through the chimney. After burning in this manner the upper half of the tile or brick, (more or less,) we open the perforations I in 50 the crown, close damper F, and fire up at the end arches, from which the draft is direct upward through the kiln. The lower half of the tile are in this manner burned. Finally we close the crown-holes, open the damper F, and 55 fire at all the arches, by which means we are enabled to dry the kiln quickly and thoroughly without danger of cracking the tile, by which a considerable loss is sometimes entailed.

From the foregoing description, taken in con-
60 nection with the drawings hereto annexed, the operation and advantages of our invention will be readily understood.

Our improved kiln is simple in construction, easily and conveniently manipulated, and ex-
65 ceedingly economical in operation.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

The combination of the rectangular kiln A, 70 having furnaces B, arranged one at each corner, and flues C with the flue E, having damper F, and the chimney G, arranged centrally at one of the long sides of the kiln A, whereby the heat from furnaces B is forced to traverse 75 nearly the whole body of said kiln, as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

WILLIAM WICKERS.
LOUIS WICKERS.
BARNY WICKERS.

Witnesses:

W. T. RITCHIE,
JAMES W. GARNER.