2 Sheets—Sheet 1.

F. F. INGERSOLL.

BRICK-KILN.

No. 177,249. Patented May 9, 1876.

Fig. 1

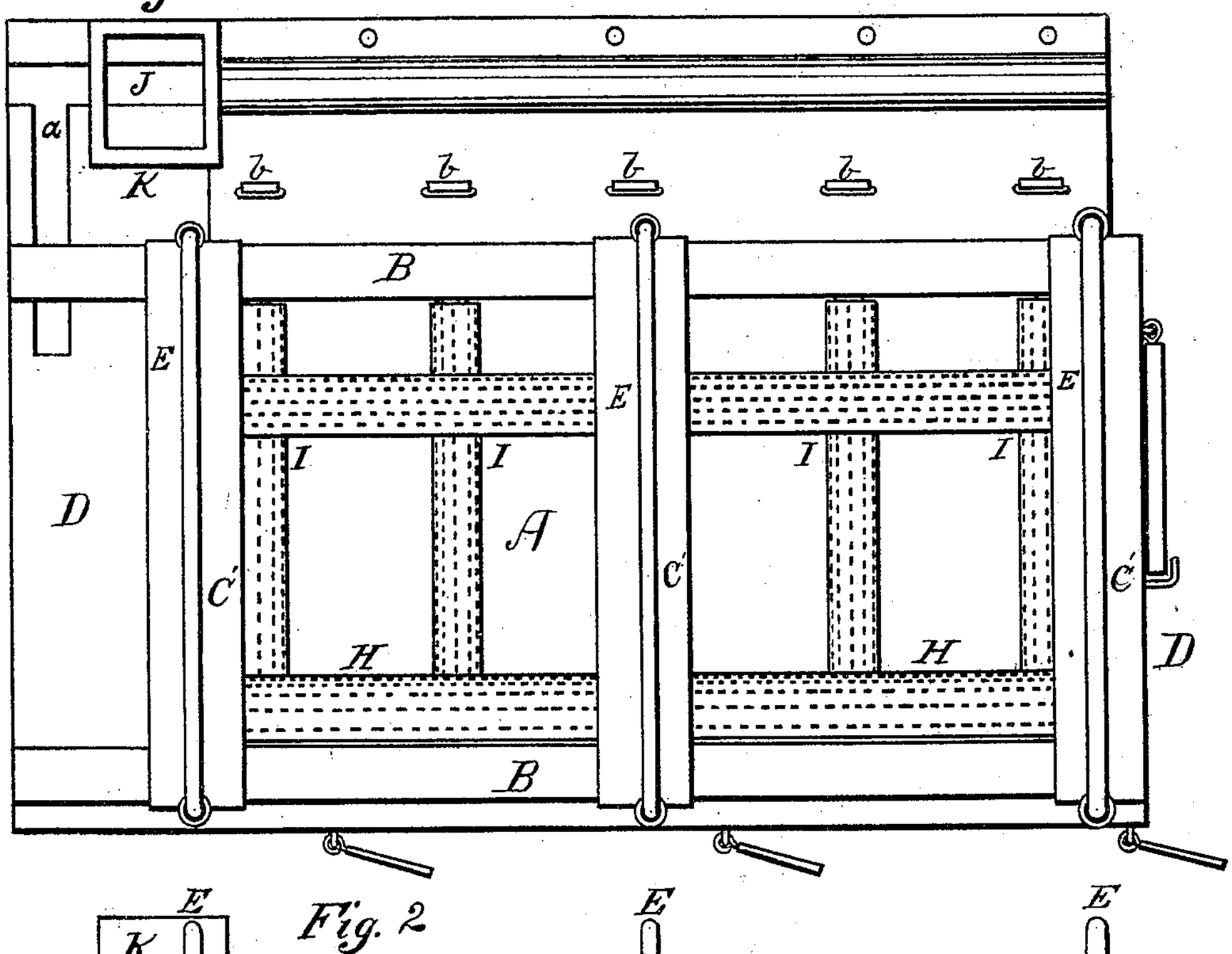
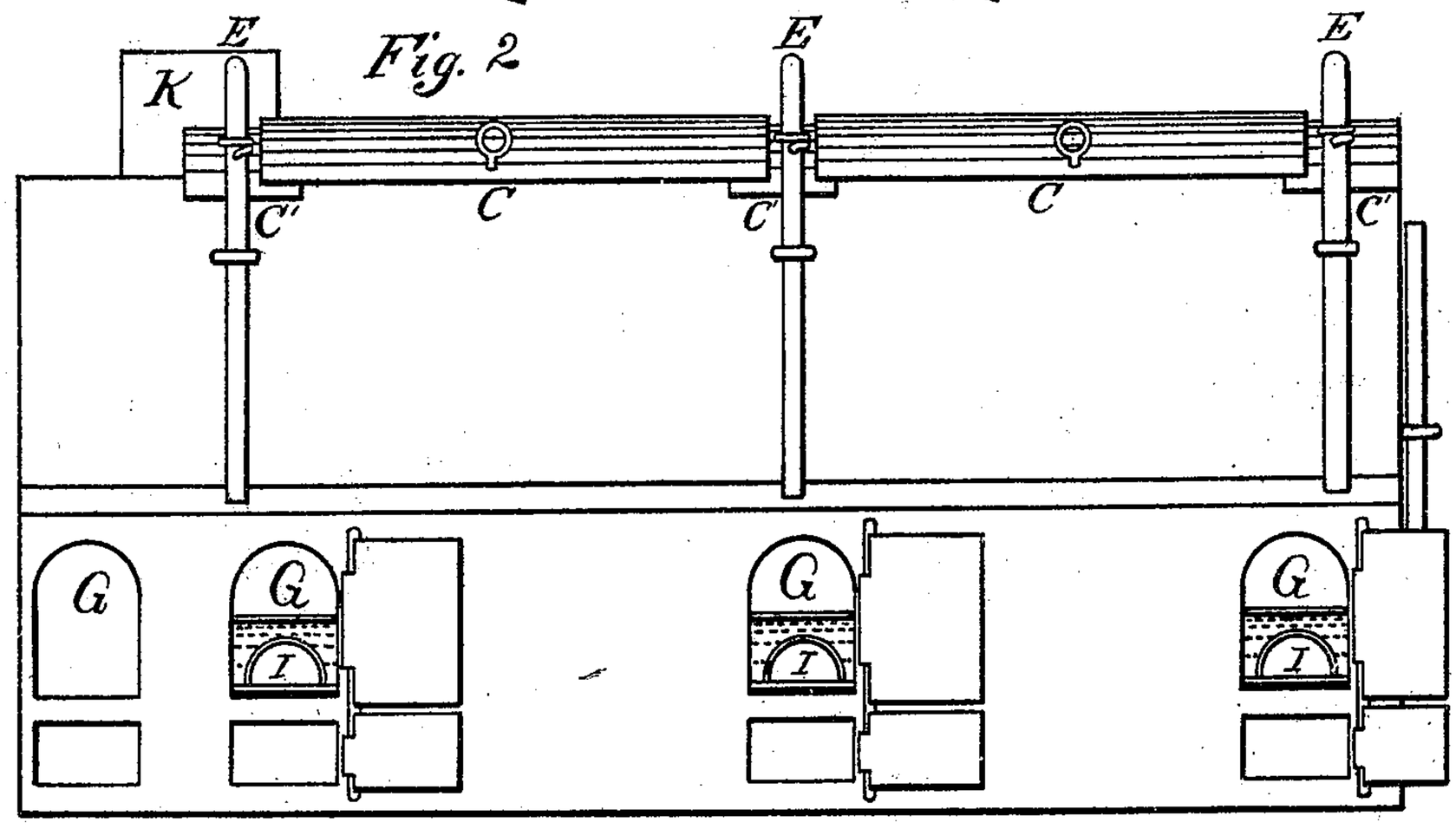


Fig. 2



WITNESSES

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2 Sheets—Sheet 2.

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Fig. 3

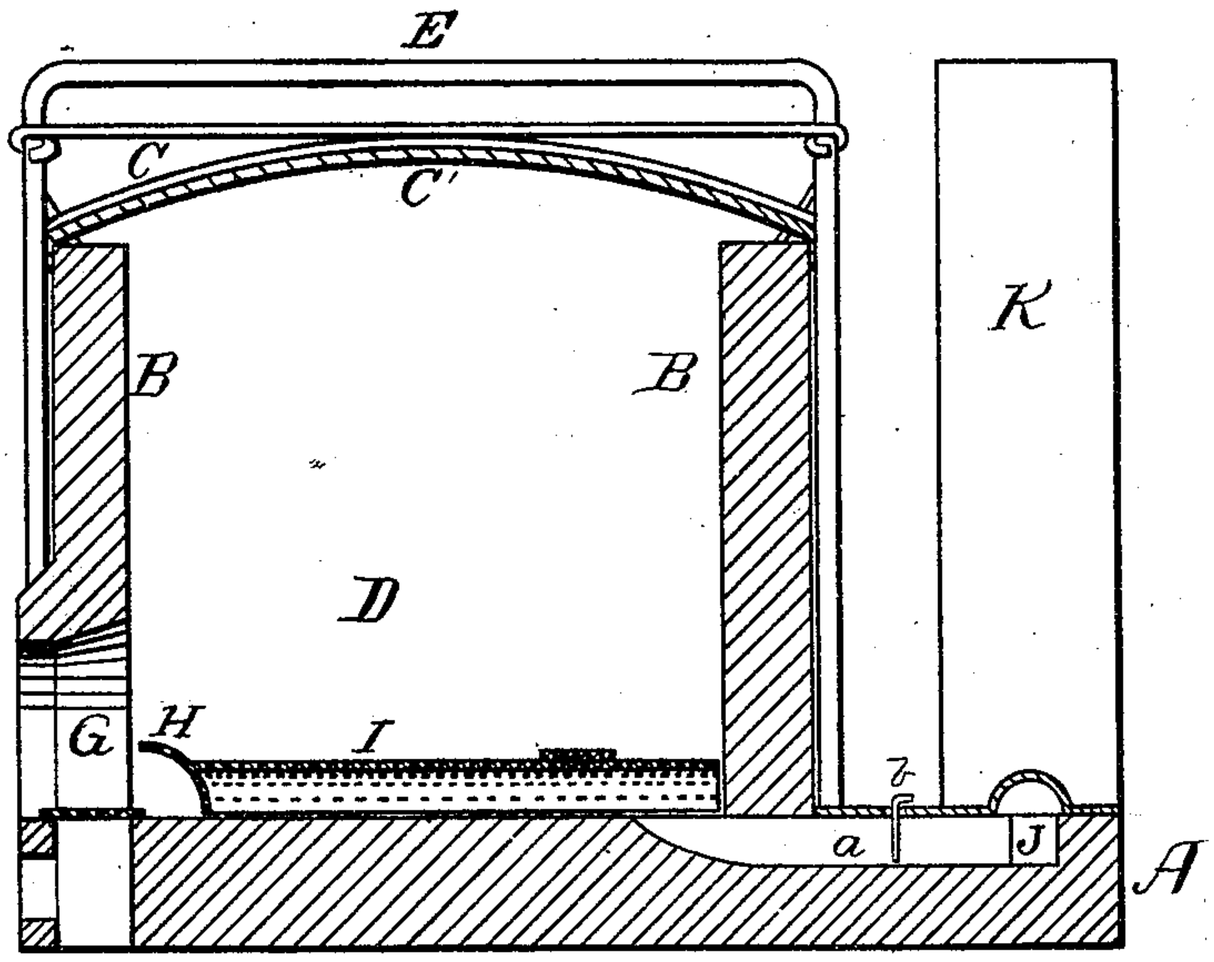
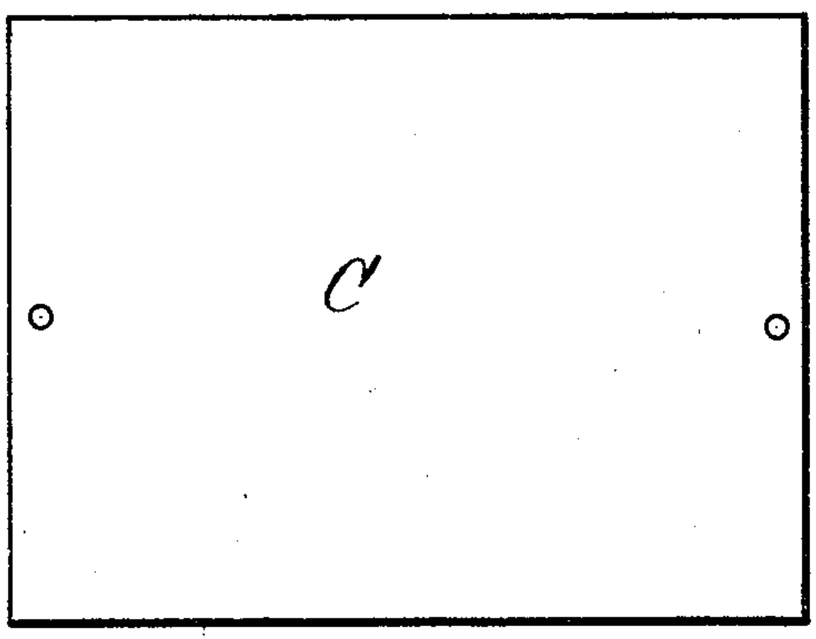


Fig. 4



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANKLIN F. INGERSOLL, OF BROWNING, IOWA.

IMPROVEMENT IN BRICK-KILNS.

Specification forming part of Letters Patent No. **177,249**, dated May 9, 1876; application filed March 25, 1876.

To all whom it may concern:

Be it known that I, FRANKLIN F. INGERSOLL, of Browning, in the county of Carroll and State of Iowa, have invented a new and valuable Improvement in Brick-Kilns; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my brick-kiln; and Fig. 2 is a side elevation of the same. Fig. 3 is a transverse vertical sectional view, and Fig. 4 is a detail view, of my brick-kiln.

The nature of my invention consists in the construction and arrangement of a brick-kiln, as will be hereinafter more fully set forth.

In the annexed drawing, A represents the floor of the kiln; B B are the side walls, and D D the end walls, the side walls being supported by the usual frame-work E. The roof of the kiln is composed of alternate stationary and removable sections C and C′, preferably made of metal. The stationary sections C′ are built in or fastened to the walls in any suitable manner, while the sections C are made movable, so as to be partially or wholly removed, or entirely closed, as may be desired, for the removal of water, smoke, or to assist in controlling the draft. These movable sections are fastened to the stationary sections by thumb-screws or other convenient means. Along the front of the kiln are a series of furnaces, G G, which are made flaring inward, so as to make them wider next to the material to be burned. Within the kiln the brick are laid so as to form an arch, H, the entire length of the front of the kiln, and transverse arches I I extending from this arch to the back wall of the kiln in front of each furnace and midway between the furnaces. These arches I I communicate with flues *a a* controlled by dampers *b b* outside of the kiln, and connecting with a horizontal flue, J, leading to the chimney K.

By this construction the fire can be more perfectly controlled and distributed, and the inside of the kiln is left entirely free of dampers.

What I claim as new, and desire to secure by Letters Patent, is—

In a brick-kiln, the top or roof composed of alternate stationary sections C′ built into the sides of the kiln, and movable or adjustable sections C, and fastened thereto by thumb-screws or their equivalents, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRANKLIN FITCH INGERSOLL.

Witnesses:

M. W. BEACH,

GEORGE FERGUSON.