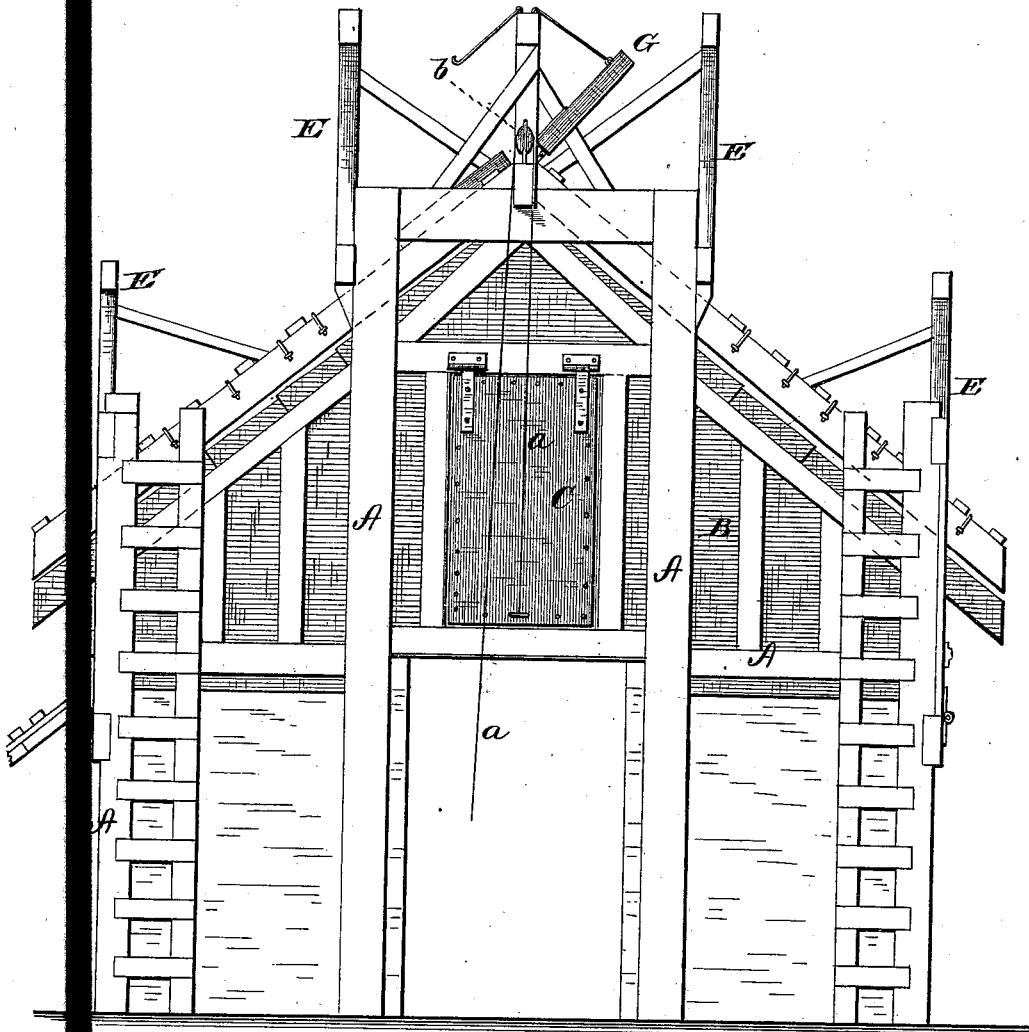


T. F. ADAMS.  
Brick-Kiln Roof.

No. 202,212.

Patented April 9, 1878.

*Fig. 1.*



WITNESSES  
*Frank L. Curand*  
*Waukfall*

By

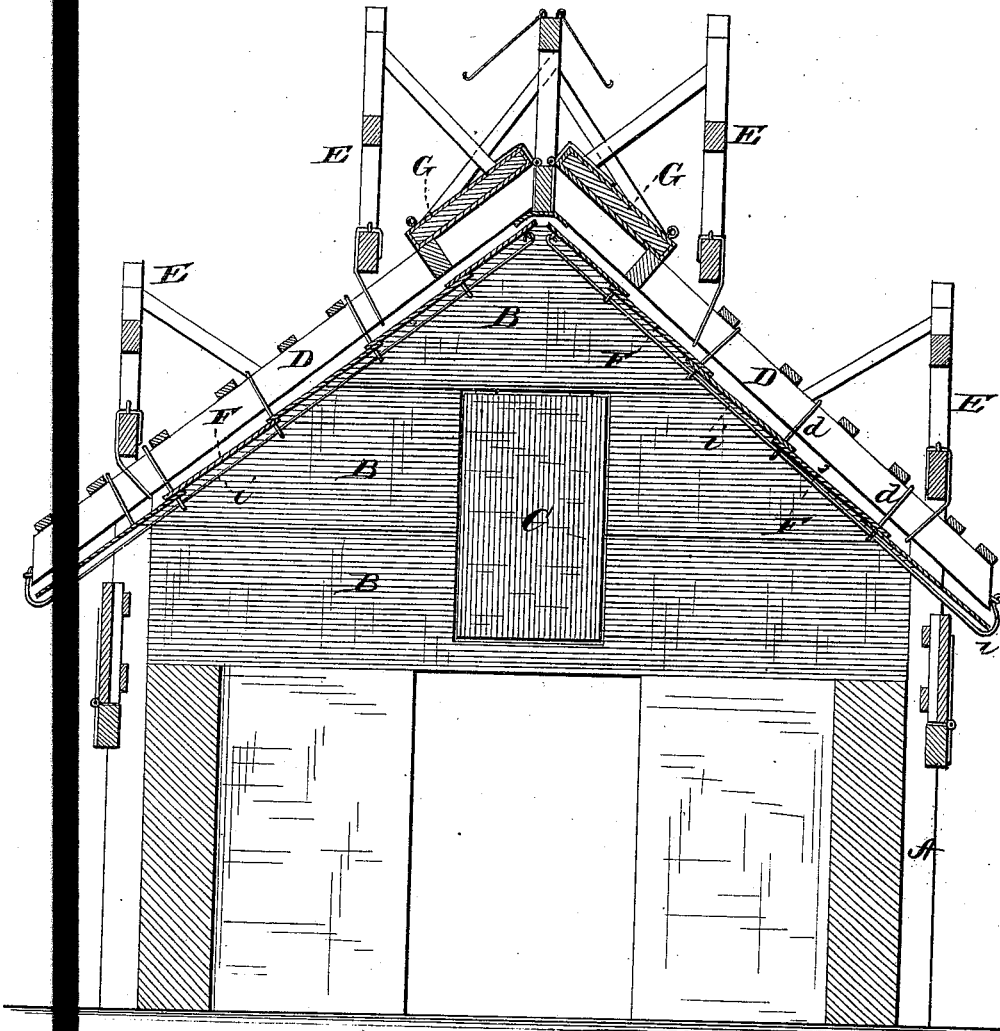
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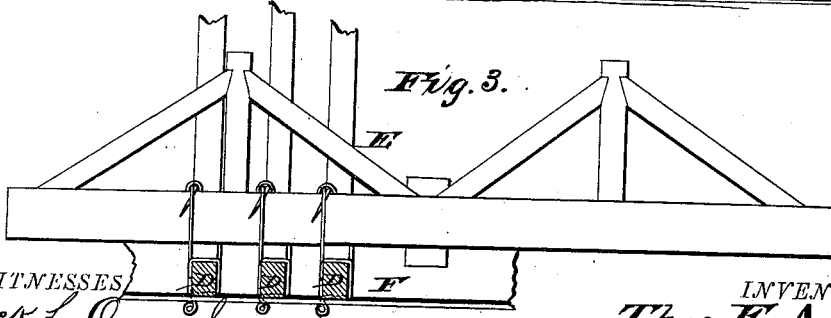
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*Fig. 2.*



*Fig. 3.*



WITNESSES  
*Frank L. Curran*  
*Waukegan*

By

INVENTORS  
*Thos. F. Adams*  
*Handy Mason*  
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# UNITED STATES PATENT OFFICE.

THOMAS F. ADAMS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE  
PEERLESS BRICK COMPANY, OF SAME PLACE.

## IMPROVEMENT IN BRICK-KILN ROOFS.

Specification forming part of Letters Patent No. 202,212, dated April 9, 1878; application filed  
March 12, 1878.

To all whom it may concern:

Be it known that I, THOS. F. ADAMS, of Philadelphia, in the county of Philadelphia, and in the State of Pennsylvania, have invented certain new and useful Improvements in Brick-Kilns; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention relates to brick-kilns; and it consists in the construction of a permanent iron roof for the same, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is an end elevation of a brick-kiln embodying my invention. Fig. 2 is a transverse vertical section of the same. Fig. 3 is a detail view of a part thereof.

A represents the ordinary frame-work of a brick-kiln, which is boarded up to a certain height. At each end I then apply sheets, B B, of iron to complete the gable, and in the same is made a door, C, which is hinged at its upper end and provided with a cord or chain, *a*, passing over a pulley, *b*, at the top of the frame, so that said door can be opened more or less from the ground, as may be desired.

To the frame-work A are connected suitable upright truss-frames E E, standing above the kiln on each side, and to these are secured rafters D on each side, said rafters meeting at the top in the center, and sloping downward on each side below the truss-frames.

The roof of the kiln is composed of iron sheets F, which are suspended from the rafters by hooks or stirrups *d d*, passing through the sheets and fastening in rods *i*, running from the top to the lower edge of the roof on each side.

At the top, in the roof thus formed, are made hinged doors G G, to be opened more or less, as occasion may require.

This roof is permanent on the kiln, and enables the burner to control the direction of the heat. By closing and opening the doors he can create a draft at any part of the kiln he may desire. By having the roof permanent a great saving of labor, in taking off and putting on an ordinary wooden roof, is thus effected, and the waste incident to the repeated handling of the boards is done away with. It renders the brick-maker independent of the weather, as his kiln is covered at all times, and the doors can be shut down more or less during a storm. It saves fuel, as the heat cannot escape so rapidly. The proportion of hard-burned brick is largely increased, and a much greater uniformity of color throughout is secured.

The iron roof F is suspended about an inch below the rafters, so as to prevent any liability of the wood catching fire.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A brick-kiln provided with a permanent iron roof and iron gable ends, provided with doors both in the roof and gables, for the purposes herein set forth.

2. In combination with the ordinary frame-work of a brick-kiln, truss-frames connected thereto above the kiln, rafters secured under said truss-frames, and an iron roof suspended below the rafters, leaving an air-space between the roof and rafters, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of February, 1878.

THOS. F. ADAMS.

Witnesses:

J. B. MOFFITT,  
ROBERT R. SMITH.