

W. H. DRAKE.  
Joist-Seats.

No. 152,283.

Patented June 23, 1874.

Fig. 1.

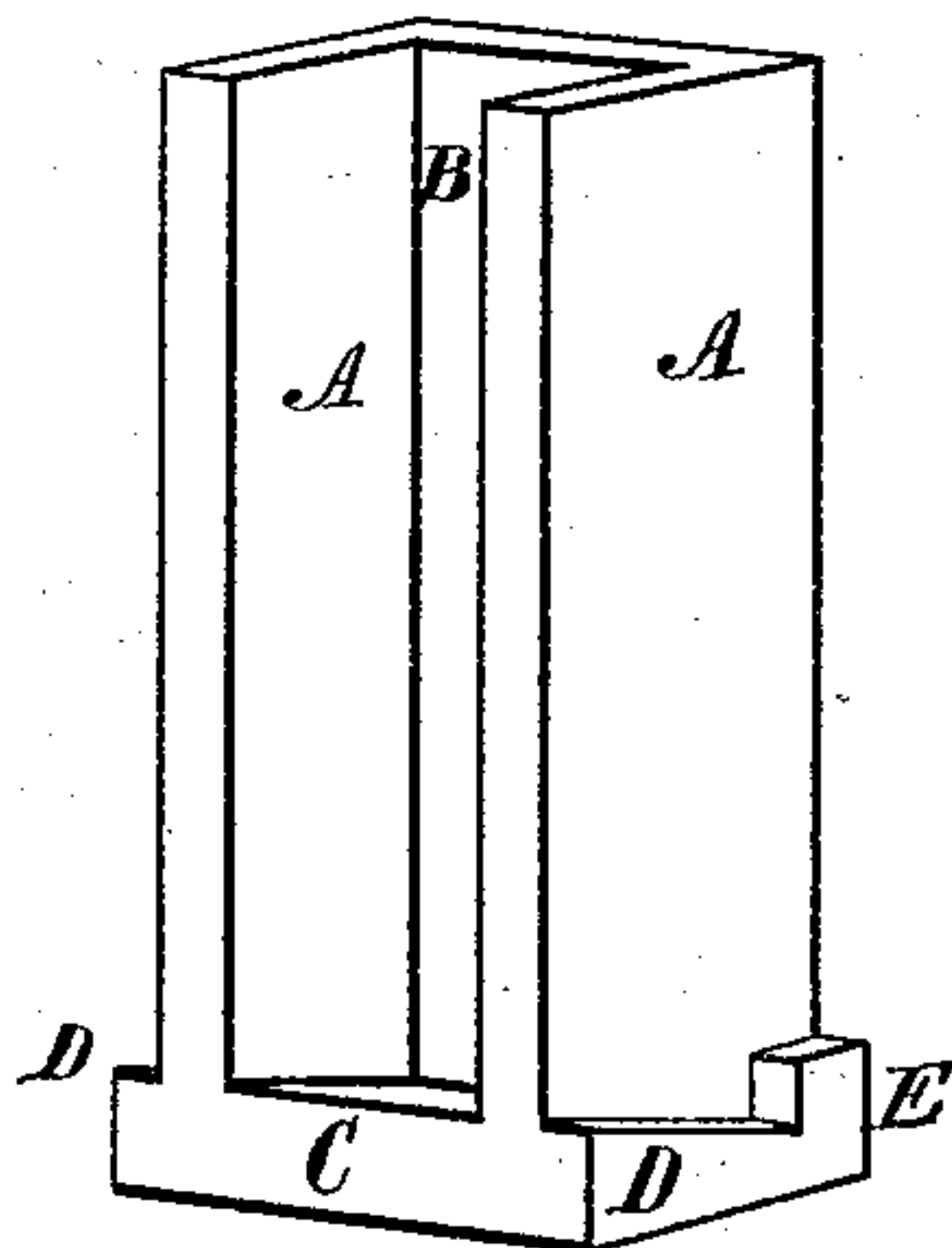
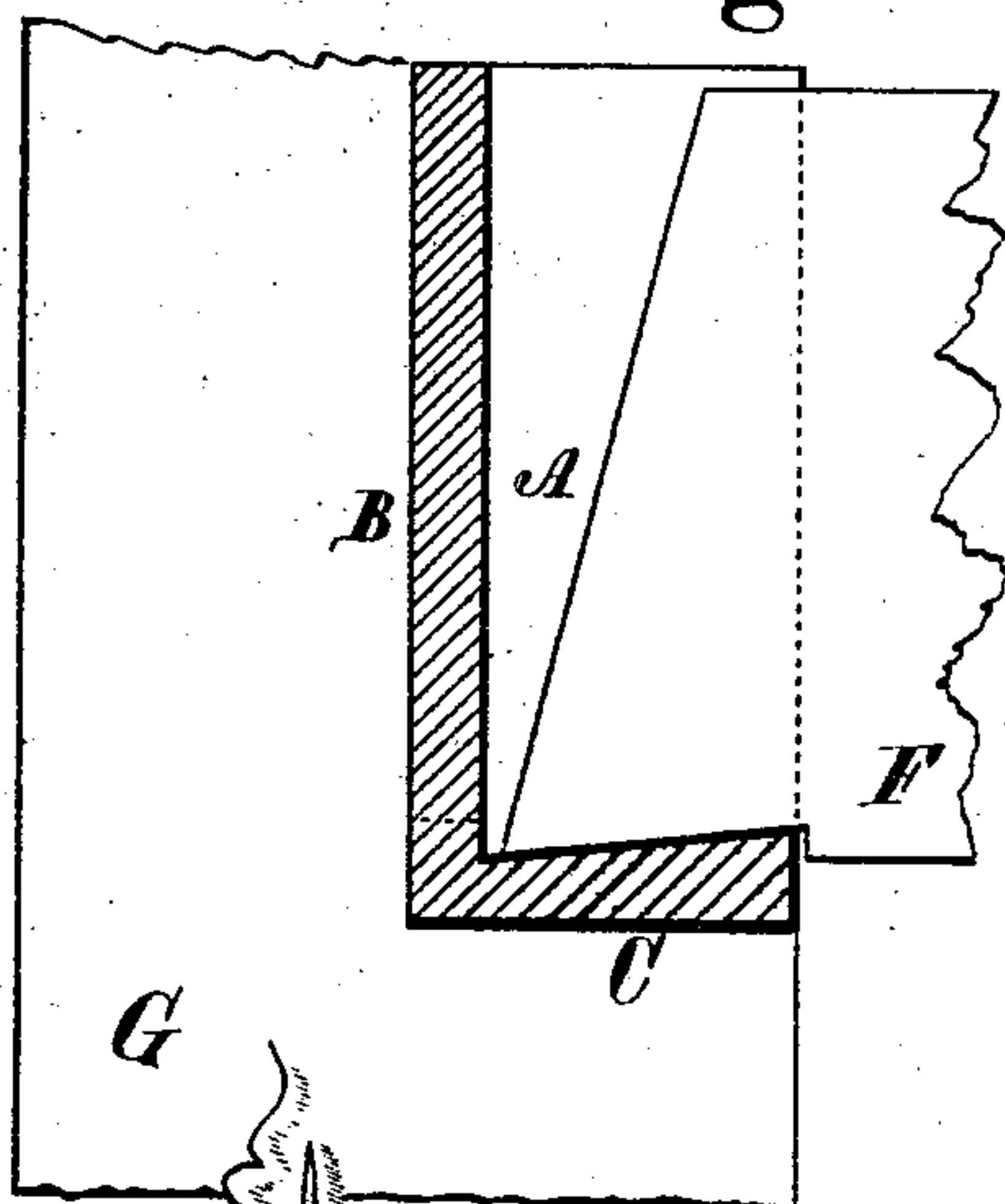
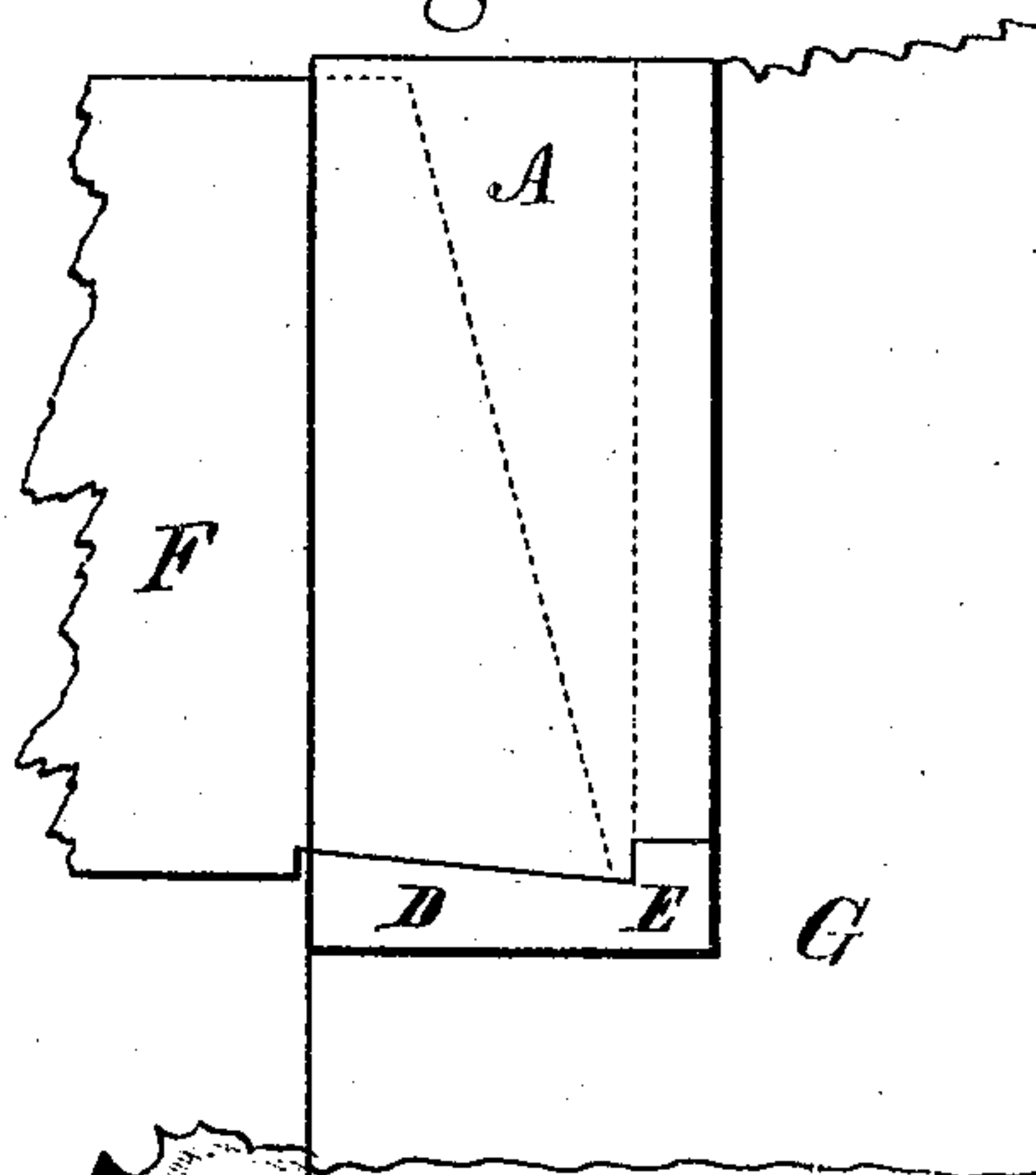


Fig. 2.



test.

Fig. 3.



inventor.

J. A. Elliott,  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. DRAKE, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN JOIST-SEATS.

Specification forming part of Letters Patent No. **152,283**, dated June 23, 1874; application filed May 18, 1874.

*To all whom it may concern:*

Be it known that I, WILLIAM H. DRAKE, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Joist-Seats, of which the following is a specification:

The object of the present invention is to provide securer means for holding the ends of joists in brick and stone buildings. The nature of this invention consists in the novel construction of joist-seats, which are provided with semi-dovetailed bearings for the joists to bear in, and with anchors on the sides thereof to hold the seats in a wall, as the whole is hereinafter fully described and shown.

In the drawings, Figure 1 is a perspective representation of my improvement in joist-seats removed from the wall of a building. Fig. 2 shows the joist-seat in the wall in section. Fig. 3 is a side elevation of the joist-seat in a wall.

A A represent the vertical sides of my improvement in joist-seats. B is the back. C is the inclined bottom, and D E are the anchors, which hold the device in the wall of a building.

The device as a whole, as shown in Fig. 1, is to be made of burned clay, similar to brick material, cement, or metal, or other suitable material—as, for instance, terra cotta. The height of the sides are to correspond to the depth of the joist used, and their distance apart is to correspond to the thickness of the joist. The bottom C on its upper side is in-

clined outward and downward, as shown, in order that every joist in a building shall anchor fast, and so that the greater the weight the firmer the joists will hold to the seats. That the seats may be firmly fastened in the wall G, anchors D E at the lower end thereof rest on the joist-course, and are held firmly thereon by means of the brick laid in the wall.

In practice the seats can be set on the joist-course and bricked in, or partly bricked in, before the joists are set, or the joists F can be sized on the sides and semi-dovetailed on the ends of the lower edges, placed in the seats, and the latter set on the joist-course, and then bricked in.

By the use of the seats thus constructed and set anchor-bolts are unnecessary, while at the same time the leverage by the joists running into the wall too far is obviated, and dry rot in the ends of the joists is prevented. Sockets have been before used to sustain the ends of joists, therefore, I confine myself to the construction of the seat as shown.

I claim and desire to secure by Letters Patent of the United States—

Seats for joists consisting of the vertical sides and back A B, inclined bottom C, and anchors D E, as and for the purpose described and shown.

WM. H. DRAKE.

Witnesses:

J. H. ELLIOTT,  
G. L. CHAPIN.