

S. R. Hathorn,
Snow and Ice Guard for Roofs.

No 58.411

Patented Oct. 2. 1866.

Fig. 1.

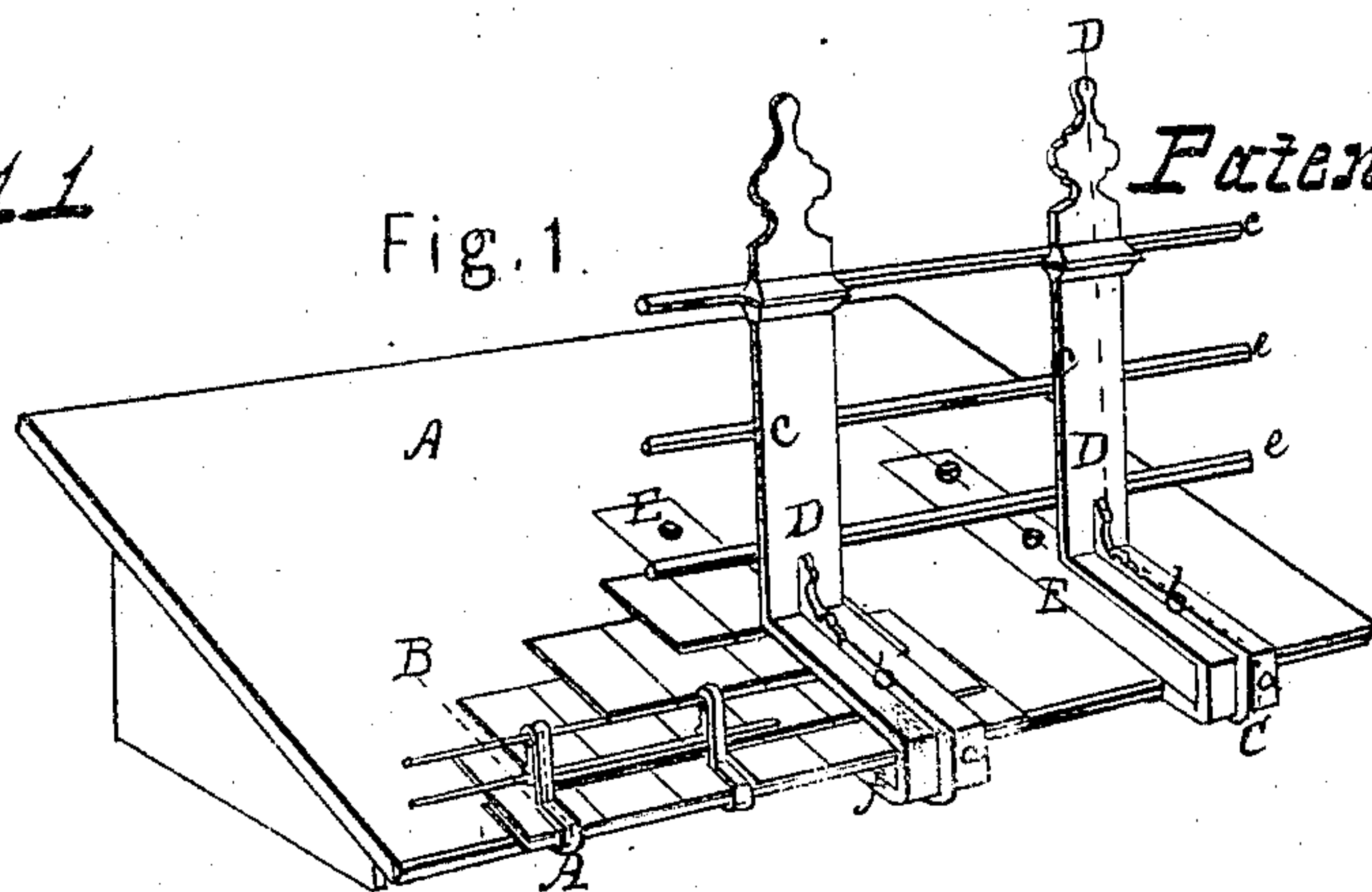


Fig. 3.

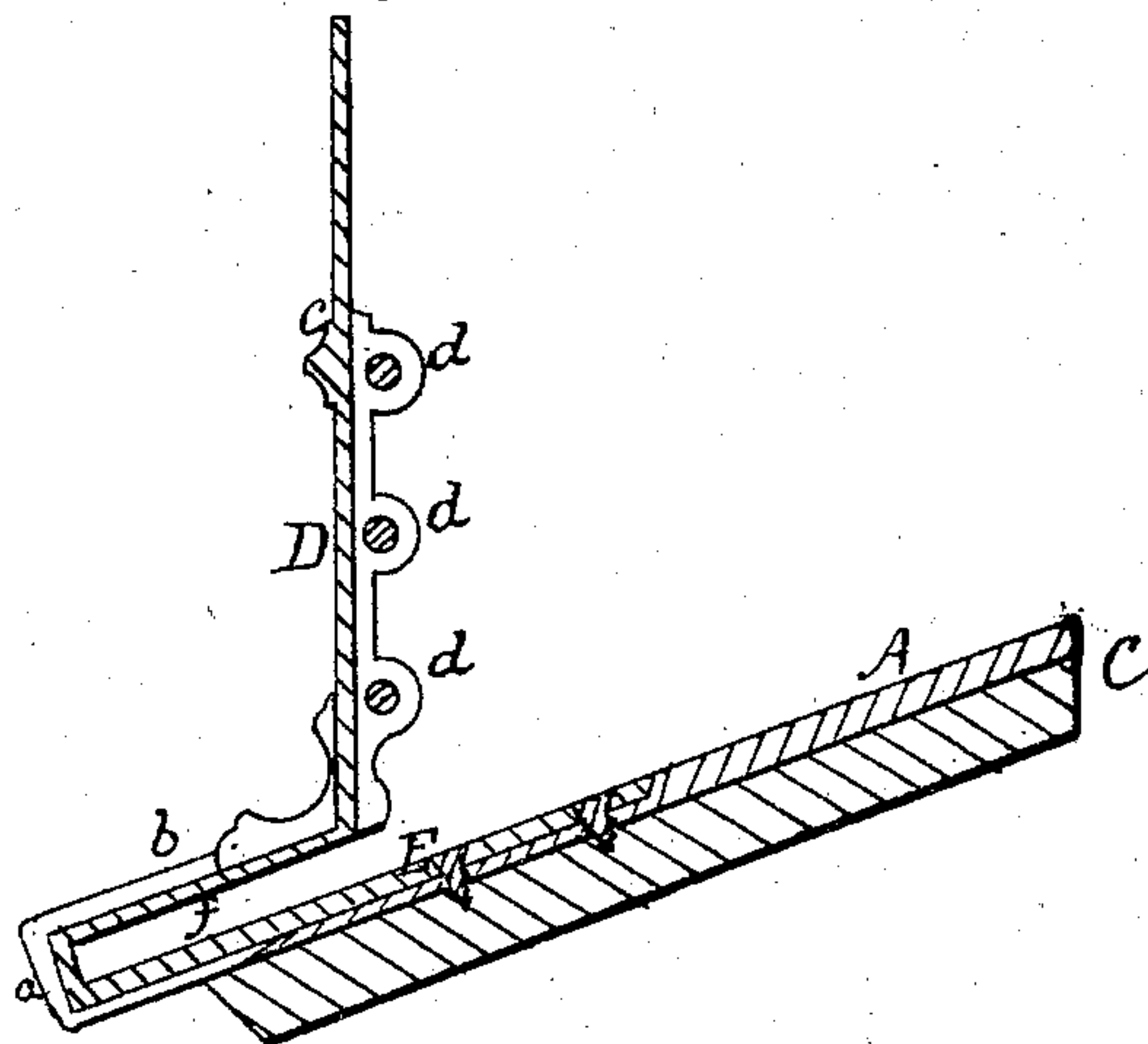
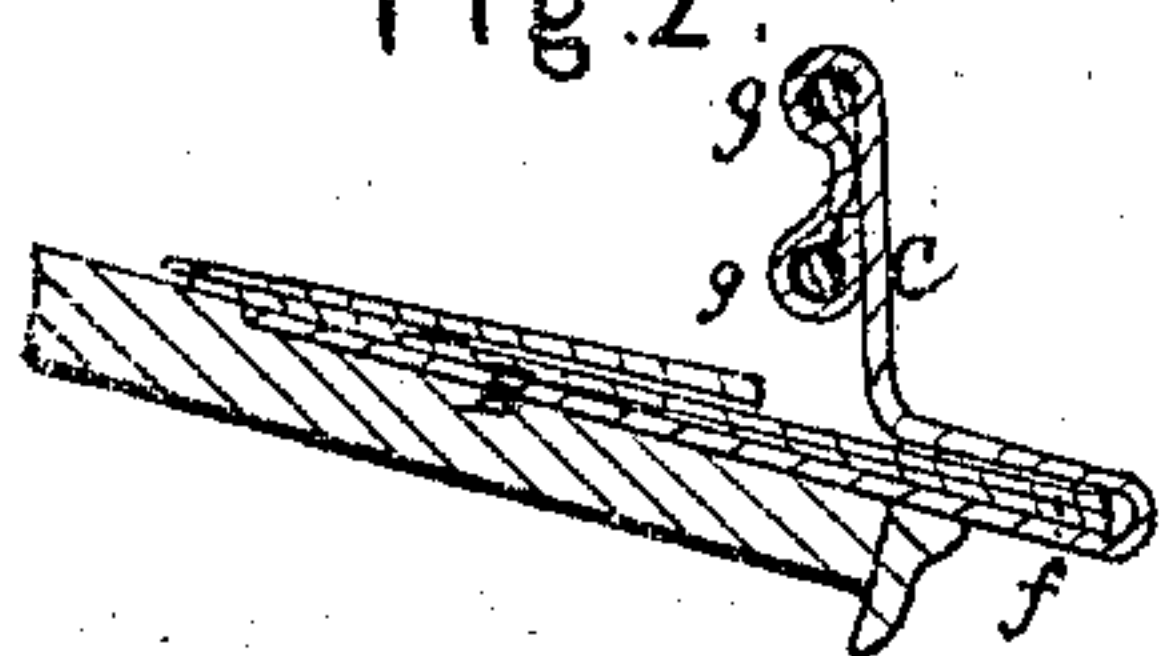


Fig. 2.



Witnesses:

Thos H Dodge
A W Milcor

Inventor:

S. R. Hathorn

UNITED STATES PATENT OFFICE.

S. R. HATHORN, OF CASTLETON, VERMONT.

IMPROVED SNOW AND ICE GUARD FOR ROOFS OF BUILDINGS.

Specification forming part of Letters Patent No. 58,411, dated October 2, 1866.

To all whom it may concern:

Be it known that I, S. R. HATHORN, of Castleton, in the county of Rutland and State of Vermont, have invented certain new and useful Improvements in Snow and Ice Fenders; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of a section of the roof of a building with my improved snow and ice fender applied thereto, one when the main part is made of cast metal and the other when it is made of wrought metal. Fig. 2 represents a section on line A B, Fig. 1, and Fig. 3 represents a section on line C D, same figure.

In the drawings, A represents the boarding to the roof, and C the roof-timbers.

D represents the main part of my snow and ice fender when made of cast metal. It is made with a long flat base, E, to fit in a place cut in the boarding of the roof, as shown in the drawings. It also projects up, as seen at *a*, then extends back, as seen at *b*, then up again, as seen at *c*. The upright part *c* may be cast or made in any ornamental form, one good form being shown in the drawings.

The space *f* enables the workman to apply either shingles or slate to the roof without difficulty.

In Figs. 1 and 2 the same principle is illustrated upon a reduced scale, when the device is made of wrought metal, the only difference being in the ornamental part and in the

mode of supporting the fender-rods *eee*, which in the latter case pass through loops formed by bending down a part of the upright piece *c*, as shown at *g g*.

My snow and ice fender can be made cheap, is strong, and is not liable to get out of order. Again, as the pieces D are fastened to the boarding before the shingles or slate are put on, there is no chance for leakage.

The main parts D are applied at suitable distances apart, so as to properly support the rods *e* against the sliding snow and ice upon the roof of the building.

In some cases where great strength is required, and the part E is made thick, it can be applied just over the roofing-timbers, so as to receive its main strength therefrom, as indicated in Fig. 3.

Having described my improved snow and ice fender, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. A snow and ice fender composed of the supporting-pieces D and fender-rods *e*, and combined together, substantially as and for the purposes set forth.

2. The snow and ice fender constructed and arranged substantially as herein described, so that it may be secured to the roof of a building before the shingles or slate are put on, as set forth.

S. R. HATHORN.

Witnesses:

THOS. H. DODGE,
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