(No Model.)

A. D. ROGERS.

SNOW GUARD FOR ROOFS.

No. 250,580. Patented Dec. 6, 1881.

Fig. 1.

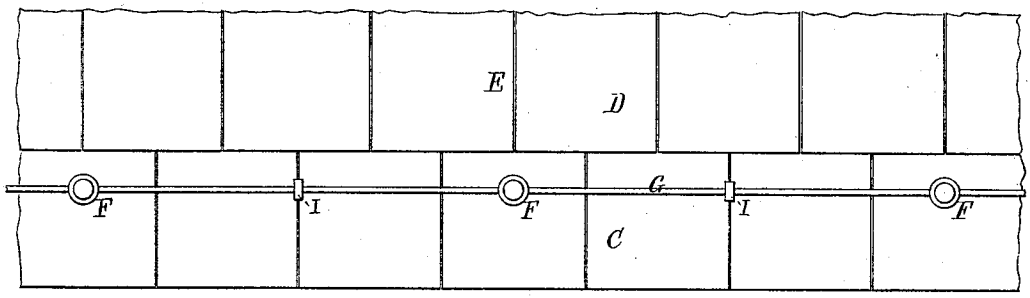


Fig. 2.

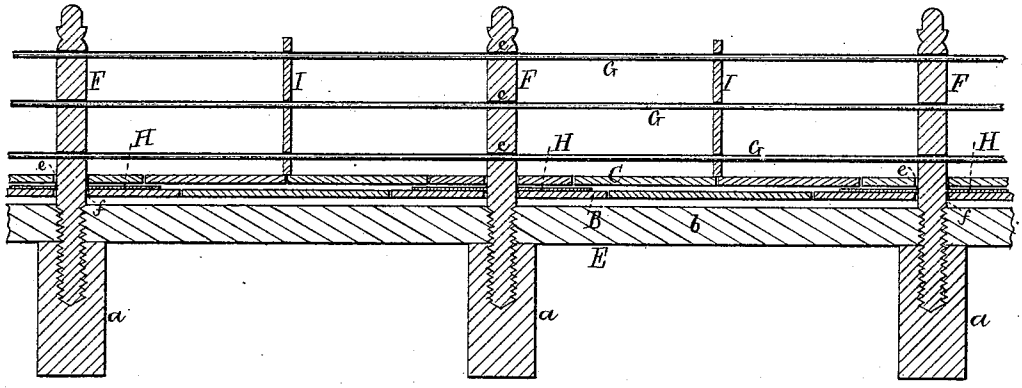
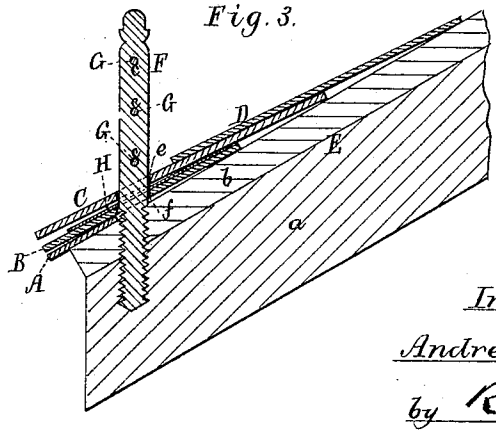


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

ANDREW D. ROGERS, OF WORCESTER, MASSACHUSETTS.

SNOW-GUARD FOR ROOFS.

SPECIFICATION forming part of Letters Patent No. 250,580, dated December 6, 1881.

Application filed September 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, ANDREW D. ROGERS, of the city and county of Worcester, and State of Massachusetts, have invented a new and useful Improvement in Snow-Guards for Slated Roofs; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, and Figs. 2 and 3 are sectional views, of part of a slated roof with my improvement applied to it.

My invention has reference to the snow-guard and its application to a roof, and is defined in the claims hereinafter made.

In the said drawings, A B C D denote the first, second, third, and fourth of the courses of slating of a roof, E, the rafters of such roof being represented at *a a a* and their boarding at *b*.

The snow-guard is composed of a series of metallic screw-posts, F, a set of connection metallic wires, G, and a set of metallic guard-plates, H, there being one of such plates to each post, which goes through the plate, the latter being soldered to the post or otherwise properly connected therewith, so that the connection shall be a water-tight joint. The posts F, I arrange just above and closely to the upper edge of the first course of slates, and to go through holes *e f* made in the second and third courses, and screw into the roof or through the boarding and into the rafters. Each post has a male screw cut on it from its lower end upward the proper distance for the post to enter the roof. Besides such screw, there are two or any other suitable number of holes, *c*, made transversely through each post for the reception of the connecting rods or wires G, arranged as shown, they being secured in any proper manner in or to the posts. Between the second and third courses of the slates the series of metallic guard-plates H is arranged. These guard-plates, by being soldered or fixed with water-tight joints to the several posts, serve to intercept any water that may flow through the post-holes of the third course of slates and prevent it from passing into the post-holes of the second course, such water, by means of the plates, being directed down between the two courses of slates, from whence it will escape downward without wetting the boarding. The guard-plates are not to be fastened down otherwise than by the posts, such plate being free to move with its post in case of said post being moved or bent laterally.

The snow-guard, constructed and applied to the roof and its courses of slates in manner substantially as set forth, serves not only its legitimate purpose of preventing snow or a person sliding down and off the roof, but aids greatly in keeping the slates in place.

I would remark that the posts, connection-wires, and guard-plates may be of iron coated with zinc or tin, or they may be of copper or composition metal, if preferable. They constitute a very cheap, durable, and effective snow-guard when applied to a roof in manner as explained.

Between the posts I arrange a series of supporters, I, each of which consists of a strip of metal resting at its foot on the slating, and having holes made through it (the said strip) for reception of the wires, which go through the strip. Thus the strips serve to sustain the wires between the posts and prevent such wires from bending down or being broken.

What I claim as my invention is as follows, viz:

1. The combination of the series of screw-posts and their connecting-wires with the guard-plates applied to the posts, as set forth.

2. The combination of the series of posts, provided with connection wires or rods and extended through two courses of slates and screwed into the roof, with such roof and slates and a series of guard-plates arranged between the said courses of slates and secured to the posts, all being substantially as set forth.

3. The combination of the supporters I with the series of screw-posts, their connecting-wires, and guard-plates, arranged with a roof and its slating, substantially as set forth.

4. The posts, connecting-rods, and guard-plates, arranged and combined with a roof and its slating, substantially as specified.

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Witnesses:

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