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1,463,065

H. N. SIEGER
SNOW GUARD AND FENDER
Filed Jan. 30, 1923

Fig. 1.

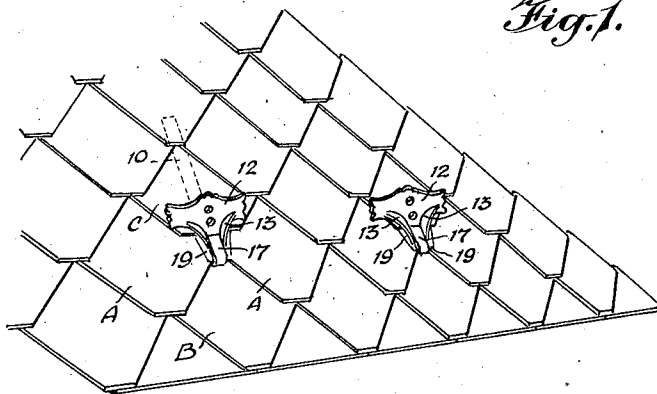


Fig. 2.

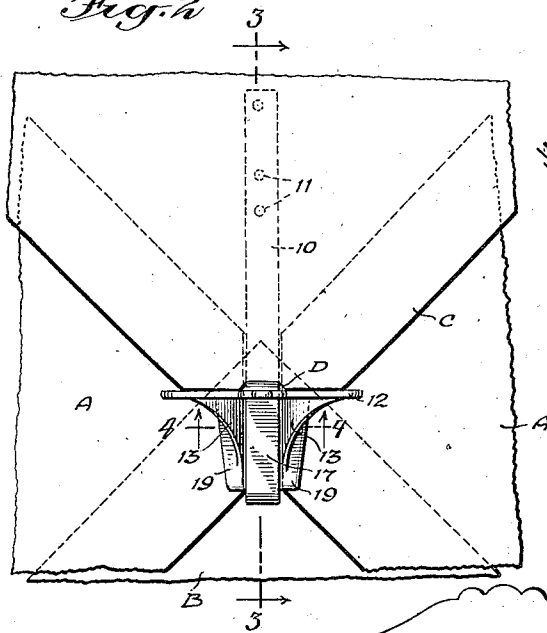


Fig. 3.

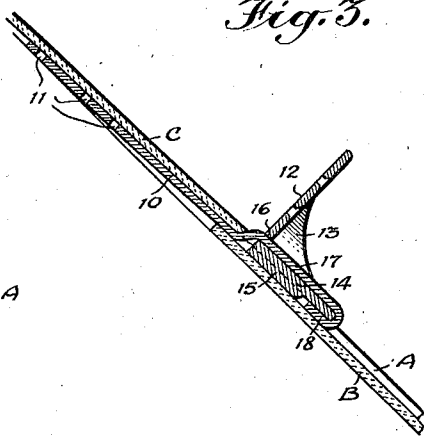
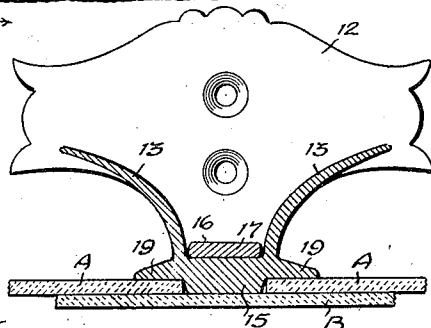


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY N. SIEGER, OF SLATINGTON, PENNSYLVANIA.

SNOW GUARD AND FENDER.

Application filed January 30, 1923. Serial No. 615,918.

To all whom it may concern:

Be it known that I, HENRY N. SIEGER, a citizen of the United States, and a resident of Slatington, in the county of Lehigh and State of Pennsylvania, have invented a new and Improved Snow Guard and Fender, of which the following is a full, clear, and exact description.

This invention has relation to guards or fenders for preventing a large volume of snow collected on a roof, from sliding therefrom, the same being in the nature of an improvement over a prior patent granted to me on October 3, 1906, and bearing United States Letters Patent No. 834,081.

In my prior patent and other similar devices which are designed primarily for use in connection with slate shingle roofs, a more or less solid bearing was afforded and hence it was essential only to have the device bear on one of the shingles. However, due to the advent of the asbestos shingle which is substantially weaker than slate and which have only a slight overlap at their edges, a less solid bearing surface is afforded for such devices.

It is therefore the principal object of the present invention to construct a snow guard or fender in such a manner that the same will have a bearing on a plurality of adjacent shingles in order to distribute the load for preventing damage to the roof as well as to insure a strong and durable connection.

As a still further object the invention contemplates a snow guard or fender which is extremely simple in its construction, inexpensive to manufacture and which is readily applicable to a roof.

With the above recited and other objects in view, the invention resides in the novel construction set forth in the following specification, particularly pointed out in the appended claims and illustrated in the accompanying drawing, it being understood that the right is reserved to embodiments other than those actually illustrated herein to the full extent indicated by the general meaning of the terms in which the claims are expressed.

In the drawing—

Figure 1 is a fragmentary perspective view of an asbestos shingle roof with the snow guards or fenders constructed in accordance with the invention applied thereto.

Fig. 2 is a fragmentary plan view thereof.

Fig. 3 is a longitudinal sectional view taken approximately on the line 3—3 of Fig. 2.

Fig. 4 is a transverse sectional view taken approximately on the line 4—4 of Fig. 2.

Referring to the drawing by characters of reference, the snow guard or fender consists of a flat bar or elongated strap 10 of metal which is provided at one end with openings 11 for the passage therethrough of nails or other fastening elements to secure the same to the rafters or furring strips of the building. At its opposite end the bar or strap 10 has attached thereto a right angularly disposed upstanding guard plate 12 which is preferably of cast metal having integral brace flanges 13 which connect with the right angular base 14 formed integral with the plate. At the under side of the base a depending rib 15 is provided which terminates short of the outer free end of the base. The plate at its juncture with the base is formed with an opening 16 to accommodate and receive the offset end 17 of the bar 10. The bar extremity 18 is bent around the free end of the base and underlies the same, said extremity 18 being disposed in longitudinal alignment with the rib 15. The under face of the major portion of the bar 10, the under face of the rib 15 and the under face of the terminal 18 are disposed in the same plane. The base is provided with laterally projecting flanges 19, the under faces of which are disposed in a plane above the under face of the rib 15 and are adapted to bear upon the edges of the upper shingles A which overlie the lower shingle B. The rib 15, the extremity 18, and the bar 10 rest directly on the under shingle B while the apertured end of the bar 10 is designed to rest upon and be secured to the rafters or furring strips. The overlapped edges of the upper shingles A are cut away to accommodate therebetween the rib 15, extremity 18 and a portion of the bar 10, while the next adjacent superposed shingle C has its lower apex cut away at D to fit against the guard plate 12. Under this arrangement it will be observed that the guard or fender in addition to bearing on the under shingle B also bears through the medium of the lateral flanges 19 on the edges of adjacent upper shingles whereby the strain and weight imparted to the guard is distributed for preventing damage to the roof as well as to insure a strong

and durable association of the guard therewith.

I claim:

1. As a new article of manufacture, a snow guard embodying a bar or strap adapted to be secured at one end to a roof, an up-
5 standing plate secured to the opposite end having a depending rib in longitudinal alignment with the bar or strap and with
10 the under face of the rib in the same plane as the under face of the bar, and lateral bearing flanges provided on said plate disposed in a plane above the under
face of the plate and strap.

15 2. As a new article of manufacture, a snow guard comprising an upright plate, a base extended therefrom, an opening formed in said plate at its juncture with the base,
a central longitudinal depending rib on the
20 under side of said base, laterally projecting elevated flanges on said base, and a securing strap or bar passed through said opening and having an offset hooked end engaging
around the free end of the base, said hooked
25 end and the major portion of the strap or bar being disposed in longitudinal alignment with the under faces in the same plane
with the rib.

3. A snow guard for asbestos shingle
30 roofs comprising a strap or bar adapted to be secured at one end to the roof, an upright guard plate at the opposite end, means

on the guard plate for affording a bearing on a subterposed shingle, and means on the
guard plate for affording a bearing on ad- 35
jacent superposed shingles.

4. A snow guard for asbestos shingle
roofs comprising a strap or bar adapted to be secured at one end to the roof, an up-
right guard plate at the opposite end, means 40
on the guard plate for affording a bearing on a subterposed shingle, and means on the guard plate for affording a bearing on ad-
jacent superposed shingles, said first means
consisting of a depending rib on the under 45
side of the plate and said latter means consisting of laterally projecting elevated flanges disposed at opposite sides of said rib.

5. A snow guard for asbestos shingle 50
roofs comprising a strap or bar adapted to be secured at one end to the roof, an upright guard plate at the opposite end, means
on the guard plate for affording a bearing
respectively on a subterposed shingle and 55
adjacent superposed shingles, said means comprising a base formed integral with said plate having a depending central rib in longitudinal and horizontal alignment with the
strap or bar, and laterally projecting ele- 60
vated bearing flanges formed on said base, as and for the purpose specified.

HENRY N. SIEGER.