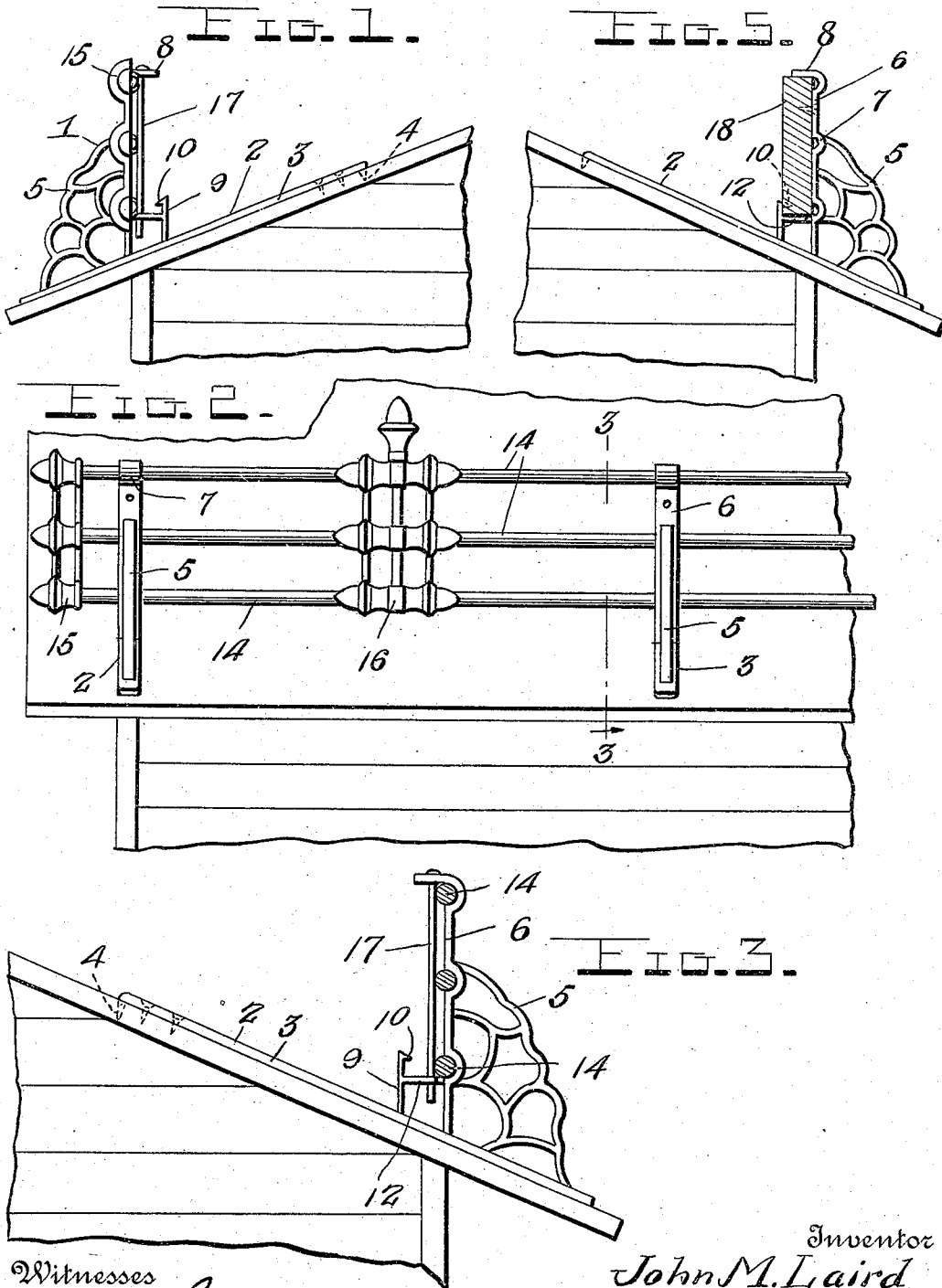


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SNOW GUARD FOR ROOFS.
APPLICATION FILED JAN. 7, 1909.

939,516.

Patented Nov. 9, 1909.

2 SHEETS—SHEET 1.



Witnesses

Chas. R. Griesbauer.
C. H. Griesbauer.

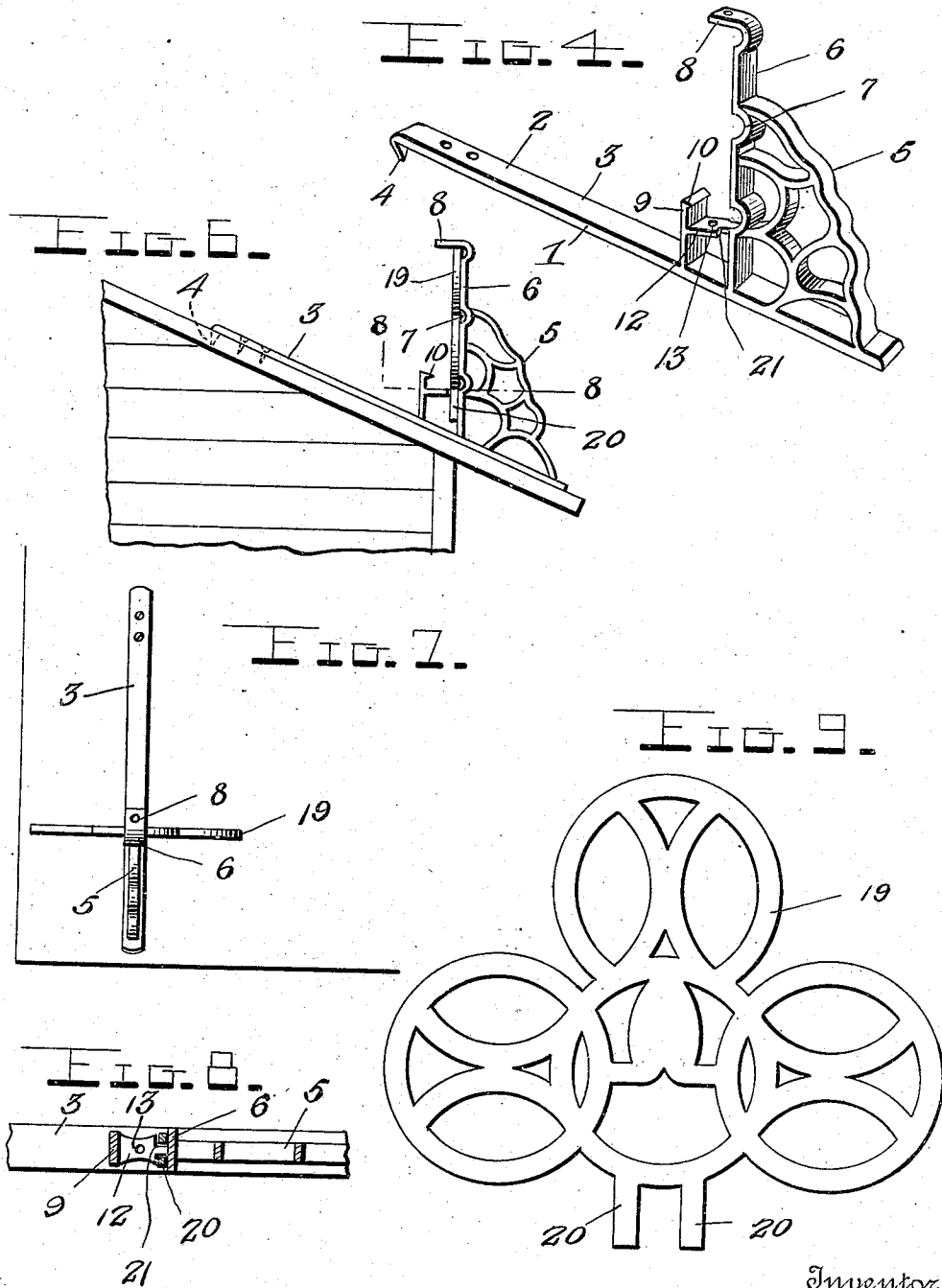
Inventor
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UNITED STATES PATENT OFFICE.

JOHN M. LAIRD, OF HUNTINGDON, PENNSYLVANIA.

SNOW-GUARD FOR ROOFS.

939,516.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed January 7, 1909. Serial No. 471,168.

To all whom it may concern:

Be it known that I, JOHN M. LAIRD, a citizen of the United States, residing at Huntingdon, in the county of Huntingdon and State of Pennsylvania, have invented certain new and useful Improvements in Snow-Guards for Roofs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in snow guards for roofs.

The object of the invention is to provide a snow guard having an improved form of supporting bracket whereby the guard may be secured to and detachably held in operative position on the roof.

A further object is to provide a supporting bracket for snow guards which will be strong, durable and artistic in construction, efficient and reliable in operation and well adapted to the purpose for which it is designed.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation showing the application of the invention; Fig. 2 is a front elevation of the same; Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2 on an enlarged scale; Fig. 4 is a detail perspective view of the bracket; Fig. 5 is a vertical sectional view showing a modified form of guard; Fig. 6 is a vertical cross sectional view of the bracket showing a modified form of the guard, the latter being shown in the form of a panel; Fig. 7 is a plan view of the panel used in the form shown in Fig. 6; Fig. 8 is a detail sectional view on the line 8—8 of Fig. 6; and Fig. 9 is a plan view of the panel detached.

In the embodiment of the invention I provide a bracket, 1, comprising a base or attaching member, 2, consisting of a bar, 3, having at its upper end a right-angular downwardly-projecting spur, 4, which is adapted to be driven into the roof, and which is also provided adjacent to its upper end with one or more screw holes adapted to receive fastening screws whereby the same may be more rigidly secured to the roof. Near the opposite end of the bar, 3,

and projecting approximately at right-angles to the operative position of the base is a guard supporting bracket, 5. Said bracket is provided with a brace, 6, which may be of an ornamental or any suitable design. The brace, 6, has formed at suitable intervals along its length a series of semi-circular seats 7, the purpose of which will hereinafter appear. At its upper end the brace, 6, is provided with an inwardly projecting or overhanging extension, 8, in which is formed an aperture. Adjacent to the lower end of the brace 6 and spaced a suitable distance therefrom on the bar, 3, is an upwardly projecting lug, 9, on the upper end of which is formed an inwardly projecting spur, 10, and midway between the spur 10 and the base, 2, is formed a guard supporting bar, 12, said bar being preferably cast integral with the bracket and has formed therein an aperture, 13, the purpose of which will hereinafter appear.

In the form of the invention shown in Figs. 1, 2 and 3, of the drawings, the guard comprises a series of longitudinally disposed bars, 14, which are here shown in the form of cylindrical metal rods, one of which is seated in each of the seats, 7, of the brace, 6, said rods or bars being connected at their opposite ends by ornamental castings, 15, and at suitable intervals along their length by ornamental castings, 16. The bars 14 are held in operative position in the seats 7 by means of a pin, 17, which is inserted through the aperture in the extension 8 and bar, 12, whereby the bars, 14, are held in operative position across the roof.

In the form of the invention shown in Fig. 5 I employ in lieu of the bars, 14, a board, 18, which is adapted to be supported in operative position on the bracket in place of said bars by means of the bar, 12, and to be held in operative position on the bracket by means of the spur, 10, which is engaged with the inner side of the board adjacent to its lower edge, and which is further held in operative position by means of a screw driven through the brace 6 of the bracket, and into said board. The spur, 10, is provided to hold the board in operative position in the event the fastening screw in the upper end of the bracket should become loosened or disengaged from the board.

In Figs. 6, 7, 8 and 9 is shown another modified construction of the guard in which a series of panels, 19, is employed in place of

the guard rods or board hereinbefore described. The panels, 19, may be of any suitable construction but are here shown in the form of an ornamental casting having on
 5 its lower edge downwardly projecting parallel lugs, 2, which are adapted to be engaged with notches or recesses, 21, formed in the bar, 12, which connects the lug 9 with the
 10 bracket bar and is held at its upper end by means of a screw inserted through a screw hole adjacent to the upper end of the bracket bar.

By means of a bracket constructed as hereinbefore described, it will be seen that
 15 I have provided means whereby different forms of guards may be supported in operative positions upon a roof to effectively prevent quantities of snow or ice from sliding therefrom and thus endangering the
 20 lives of pedestrians beneath the same.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without
 25 requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

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

35 1. A snow guard comprising base plates,

upright guard supporting brackets formed at the outer ends of said plates, said brackets comprising rear vertical members provided along their bodies with outwardly bent portions forming seats and at their upper ends
 40 with inwardly projecting extensions, a plurality of cylindrical guards seated in the outwardly bent portions of the brackets, horizontal supporting bars near the lower ends of the rear vertical pieces of the brackets, and vertical keeper pins insertible
 45 through the extensions and supporting bars of the supporting brackets and adapted to hold the guards in position.

2. A snow guard comprising a base plate, 50 an upright guard supporting bracket at the outer end of said plate, said bracket comprising a rear vertical member provided along its body with a series of outwardly bent portions forming semi-circular seats
 55 and at its upper end with an inwardly extending extension, a rearwardly extending horizontal supporting bar near the lower end of the rear vertical member of the bracket, and a keeper pin insertible through
 60 the extension of the bracket and said horizontal supporting bar.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN M. LAIRD.

Witnesses:

R. A. ORBISON,
 H. B. DUNN.