

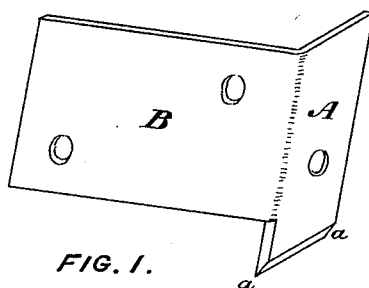
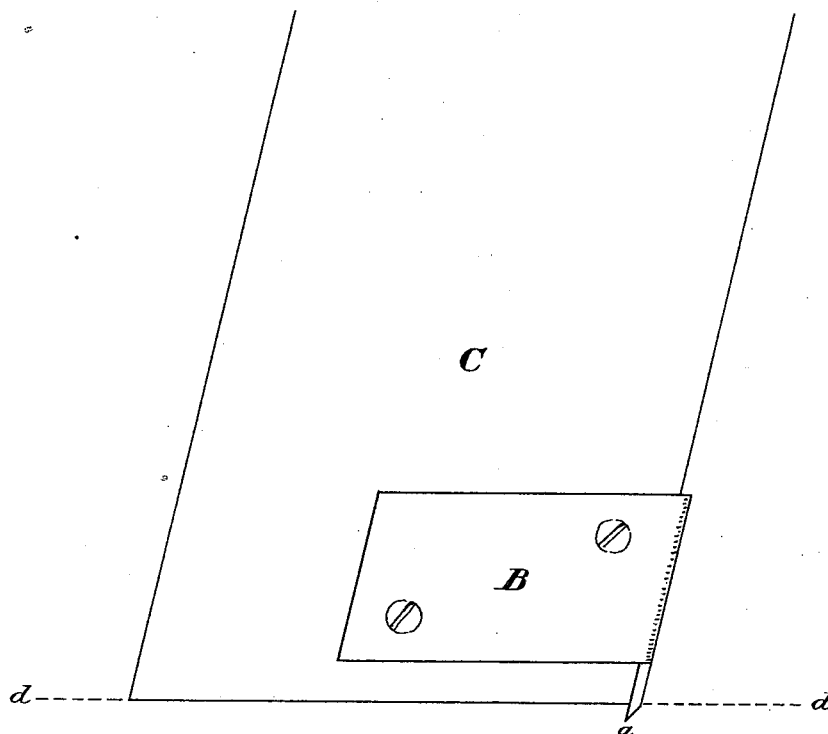
(No Model.)

W. B. HARISON.

SHOE FOR LADDERS TO PREVENT ACCIDENTS FROM SLIPPING, &c.

No. 385,806.

Patented July 10, 1888.



Witnesses:-
William B. Harison,
Joseph B. Braman,

Inventor:-
W. B. Harison.

UNITED STATES PATENT OFFICE.

WILLIAM BEVERLEY HARISON, OF NEW YORK, N. Y.

SHOE FOR LADDERS TO PREVENT ACCIDENTS FROM SLIPPING, &c.

SPECIFICATION forming part of Letters Patent No. 385,806, dated July 10, 1888.

Application filed August 11, 1887. Serial No. 246,645. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BEVERLEY HARISON, of the city, county, and State of New York, have invented a new and useful
5 Shoe to be Attached to Ladders, &c., of which the following is a specification.

My invention is designed to prevent ladders from slipping while in use, as an improvement upon the old style of spike shoes or strips of
10 metal upon which the main weight of the ladder rests, and to accomplish this object without serious damage to the surface upon which the ladder is placed; and this object is attained by the instrument illustrated in the accompanying drawings, in which—
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Figure I represents the shoe, which consists of a plate of metal bent to conform to the sides of a ladder-foot, the side A having a sharpened edge, *a a*, (with a reverse bevel edge to
20 insure penetration in case of slipping,) to be adjusted to protrude a sufficient distance only beyond the foot of the ladder, to insure a firm contact with the surface upon which the ladder may rest, to be firmly attached to the inside foot of the ladder, and to be strengthened
25 and held in place by plate B, which may be bolted or screwed to the side of the ladder, and is designed to resist the horizontal strain that the shoe will be constantly subject to.

30 Fig. II represents the shoe (side B) as applied to a shelf-ladder, C, resting upon any surface, *d d*. The drawings represent the

sharpened edge as penetrating the surface *d d*, to show the action of the reverse bevel edge; but when in use the shoe is applied so that the
35 sharpened edge *a a* will engage the surface *d d*, but sufficiently to resist any tendency of the ladder to slip. If, however, greater pressure be brought to bear upon it, the ladder will still be prevented from slipping dangerously,
40 because of the increasing penetration of *a a* into the surface *d d*.

I claim that this shoe will insure a ladder against slipping, especially upon wooden surfaces, (which it cannot deface, as will any shoe
45 now in use,) and that it can be made to be adjusted to the lightest or heaviest ladders in use.

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

A band or strip of metal to be secured to
50 the foot of a ladder, with a side piece bent to conform with and to be fastened to the side of the ladder, and with a sharpened edge beveled to insure penetration in case of the ladder slipping, designed to be adjusted with this
55 sharpened edge protruding beyond the foot of the ladder a sufficient distance only to secure firm contact with the surface upon which the ladder may rest without seriously damaging such surface, substantially as above described.
60

WM. BEVERLEY HARISON.

Witnesses:

WILLIAM B. HARISON,
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