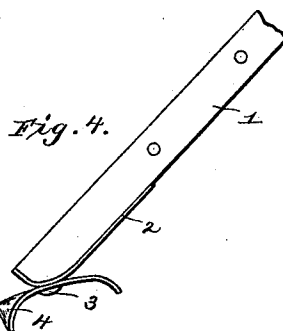
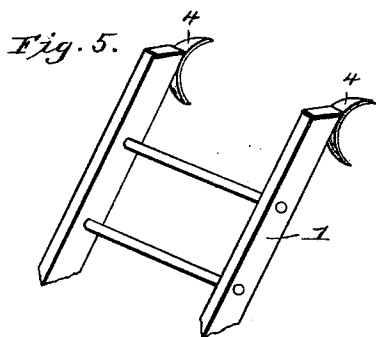
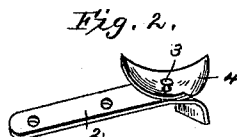
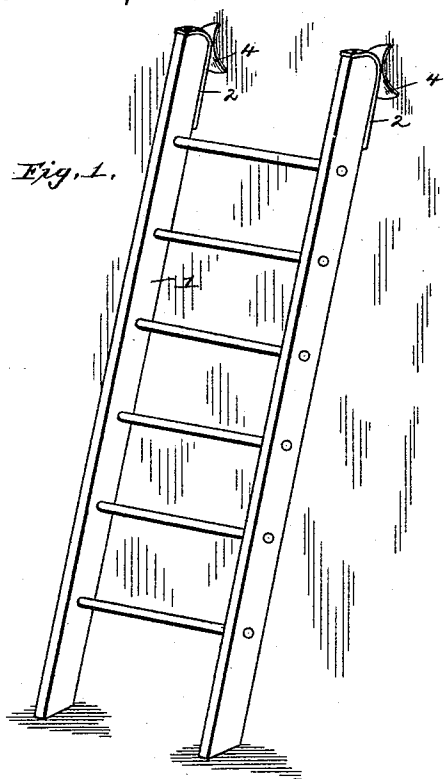


(No Model.)

J. C. ADAMS.
LADDER GUARD.

No. 480,160.

Patented Aug. 2, 1892.



Witnesses

L. C. June

Chas. B. Ayer

By his Attorneys,

Chas. B. Ayer & Co.

Inventor

Joseph C. Adams

UNITED STATES PATENT OFFICE.

JOSEPH C. ADAMS, OF NEW LONDON, ASSIGNOR OF ONE-THIRD TO CHARLES A. TODD, OF SCYTHERVILLE, NEW HAMPSHIRE.

LADDER-GUARD.

SPECIFICATION forming part of Letters Patent No. 480,160, dated August 2, 1892.

Application filed April 9, 1892. Serial No. 428,496. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH C. ADAMS, a citizen of the United States, residing at New London, in the county of Merrimac and State of New Hampshire, have invented a new and useful Ladder-Guard, of which the following is a specification.

This invention relates to certain new and useful improvements in ladder-guards; and it consists in the construction and arrangement of the parts thereof, and will be hereinafter more fully described and claimed.

The object of this invention is to provide a ladder with a shoe adapted to penetrate the surface against which the ladder rests either at the base or head thereof to prevent the same from slipping or sliding from one side to the other.

In the drawings, Figure 1 is a perspective view of a ladder, shown as resting against a support, with the improvement applied thereto. Fig. 2 is a detail perspective view of one of the shoe attachments removed from the ladder. Fig. 3 is a detail view of the shoe disconnected. Fig. 4 is an elevation showing the device applied to the foot of the ladder. Fig. 5 is a detail perspective view of a portion of a ladder, showing the shoe applied directly thereto.

Similar numerals refer to corresponding parts in the several figures.

Referring to the drawings, the numeral 1 designates a ladder of any preferred form or construction, which has secured to the base or top ends of the side rails thereof metallic strips 2, from which project headed studs or pins 3, extending through and loosely retaining triangular-shaped shoes 4, which are loosely mounted thereon. When these shoes are applied to the top ends of the rails of the ladder, they are located on the side portions

thereof, and when the said shoes are attached to the bottom of the ladder they are preferably fixed to the ends of the rails thereof. Hence it will be seen that the only difference in construction would be in the difference of location of the headed studs or pins 3. The shoes 4 are dished to thereby project the points 5 thereof and position them to take into the surface, against which they may bear. By means of the yielding connections of the said shoes they will be permitted to assume the different positions and will be at all times at a proper angle for engagement.

The advantages and conveniences of a device of this character are readily apparent to those skilled in the art and need not be further enlarged upon herein.

Having thus described the invention, what is claimed as new is—

1. The combination, with a ladder, of a shoe loosely connected thereto and having triangularly-arranged projecting engaging-points, substantially as described.

2. The combination, with a ladder, of a triangular-shaped shoe, which is dished to provide projecting engaging-points, said shoe being loosely connected, substantially as described.

3. The combination, with a ladder, of metallic strips, headed studs or pins projecting therefrom, and triangular-shaped dished shoes loosely connected to said headed studs or pins, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH C. ADAMS.

Witnesses:

JOHN B. HOIT,
ELMER E. ADAMS.