

(No Model.)

H. REIFFENSTEIN.
LADDER SUPPORT.

No. 544,520.

Patented Aug. 13, 1895.

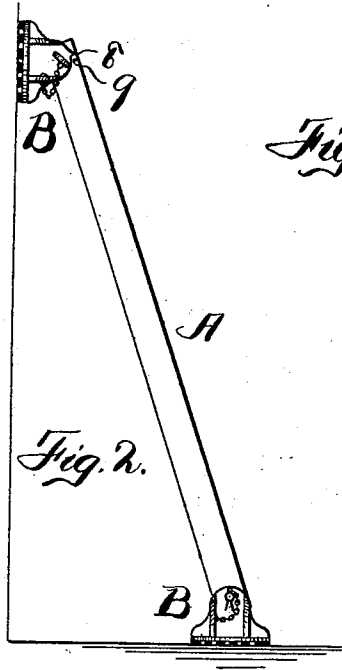


Fig. 1.

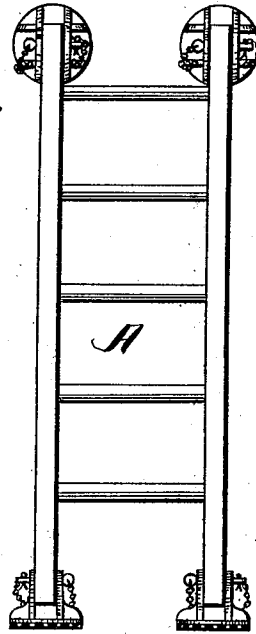


Fig. 3.

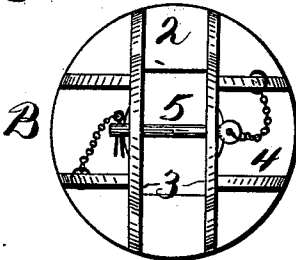


Fig. 7.

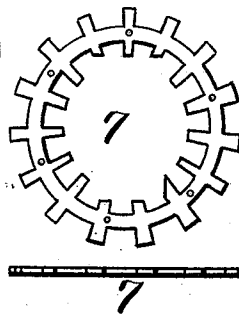


Fig. 4.

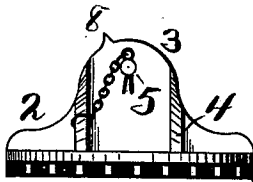
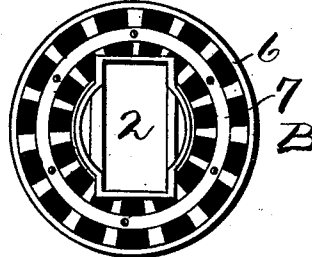


Fig. 5.

Fig. 8.

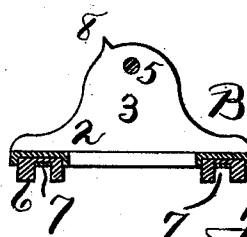
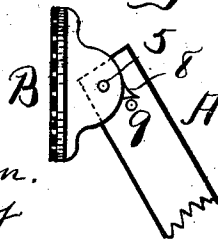


Fig. 6.

WITNESSES:

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HENRY REIFFENSTEIN, OF SYRACUSE, NEW YORK.

LADDER-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 544,520, dated August 13, 1895.

Application filed May 23, 1895. Serial No. 550,393. (No model.)

To all whom it may concern:

Be it known that I, HENRY REIFFENSTEIN, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and
5 useful Improvements in Ladder-Supports, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to ladder-supports,
10 which are designed to hold the foot or top of a ladder, or both, from slipping when erected.

My object is to provide a ladder with an antislipping support for either top or bottom of a ladder, which will automatically fit or
15 adapt itself to the angle of the ladder with reference to the surface of the ground or to the wall of the building, such support comprising a suitable body pivoted to the ends of the side rail of the ladder, a suitable pad, as
20 of rubber, and means to detachably secure the same to said body, the face of said pad being usually broken, in order to produce a multitude of holding-surfaces independent of each other, and all co-operating to securely
25 grip the walk, pavement, or earth upon which the ladder is erected to hold the foot of the ladder and to grip the wall of the building to prevent the ladder from slipping sidewise.

My invention consists in the several novel
30 features of construction and operation hereinafter described, and which are specifically set forth in the claim hereunto annexed.

It is constructed as follows, reference being had to the accompanying drawings, in which—

35 Figure 1 is a front elevation of a ladder erected. Fig. 2 is a side elevation thereof. Fig. 3 is a top plan of the support. Fig. 4 is a bottom plan thereof. Fig. 5 is a side elevation thereof. Fig. 6 is a transverse section thereof. Fig. 7 shows a top plan and an edge
40 view of a pad-holding ring. Fig. 8 is a detail of a stop-pin mechanism.

A is a ladder of ordinary construction, sides and rungs.

45 B is my support, shown as applied to the bottom and top of the ladder sides. It comprises a body 2, provided with suitable flanges 3 and reinforcements 4, when desired, the end

of each ladder side fitting between said flanges, and 5 is a bolt through them and 50 which forms the pivot upon which the support rocks to adjust itself. A pad 6 is secured onto the bottom of said body by a ring 7 of any suitable design, the one shown having radial cross-bars, which fit into recesses 55 in the pad, as also the body of the ring, and its surface is broken into a multitude of holding or contact surfaces, substantially as shown. It will be readily seen that the surfaces of the pad, when of elastic or yielding 60 material, will readily grip and cling to any surface to which they are applied, and thus prevent the foot of the ladder from slipping out or the top from slipping sidewise, and thus prevent the ladder from falling and protect 65 the lives of firemen, painters, and others using ladders, being more effective for that purpose than the spikes commonly in use, and being pivoted upon the ladder they automatically adapt themselves to the angle of the 70 ladder, so that they rest flat upon the wall or surface upon which the ladder is erected. One or both of the flanges 3 can be provided with a lug 8, with which a pin 9 upon the ladder is adapted to engage in order to prevent the support, particularly at the top of the ladder, 75 from flopping over, so that it will not make proper contact with the wall.

Having described my invention, what I claim, and desire to secure by Letters Patent, 80 is—

The combination with a ladder of supports each comprising a body, a pad provided with a broken face, a ring provided with transverse cross-bars and means to secure it to said 85 body to retain said pad, and a pivot-bolt connecting said body to the ladder rail, whereby the support will automatically adjust itself to the angle of the ladder.

In witness whereof I have hereunto set my 90 hand on this 20th day of May, 1895.

HENRY REIFFENSTEIN.

In presence of—

JESSIE E. MURRAY,
HOWARD P. DENISON.