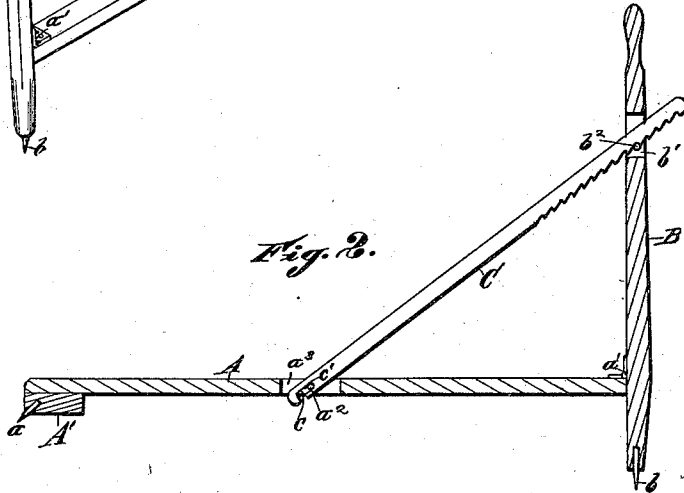
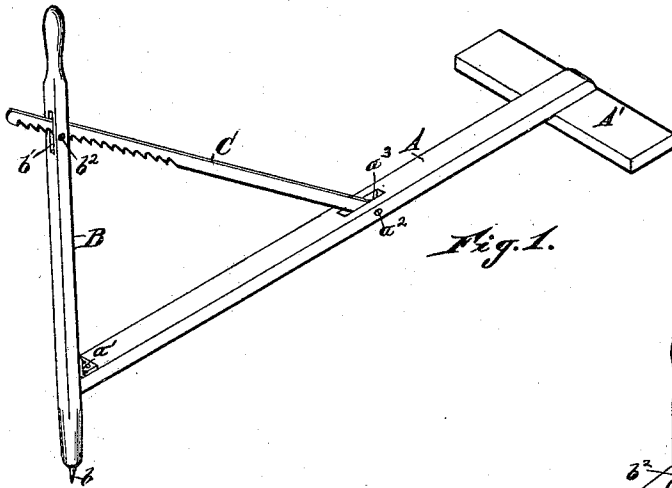


(No Model.)

A. DANN.  
CARPET STRETCHER.

No. 343,892.

Patented June 15, 1886.



WITNESSES

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# UNITED STATES PATENT OFFICE.

ADONIRAM DANN, OF MARINE CITY, MICHIGAN.

## CARPET-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 343,892, dated June 15, 1886.

Application filed December 15, 1885. Serial No. 185,756. (No model.)

*To all whom it may concern:*

Be it known that I, ADONIRAM DANN, of Marine City, county of St. Clair, State of Michigan, have invented a new and useful Improvement in Carpet-Stretchers; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to certain new and useful improvements in carpet-stretchers; and it consists of the combination of devices and appliances hereinafter described, and more particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a carpet-stretcher embodying my invention, ready for application. Fig. 2 is a vertical section.

I carry out my invention as follows:

In the accompanying drawings, which form part of this specification, A represents a push-bar provided at one end with teeth or points  $a$ , of any suitable construction, for engaging a carpet. It will be desirable to secure these points upon a cross-bar,  $A'$ , engaged with the end of the push-bar, as shown. The points may consist of a serrated metallic bar engaged upon the cross-bar  $A'$ ; or they may be separately engaged in the cross-bar or end of the push-bar, which might be constructed broad enough to dispense with the need of a cross-bar.

B is an operating-lever hinged to the opposite end of the push-bar, as shown at  $a'$ , and provided with one or more spikes,  $b$ , at its lower end, to engage the floor firmly for operating the push-bar A.

C is a rack-bar, serrated at one end and engaged at the other over a pivot,  $a^2$ , in the push-bar, said bar being slotted, as shown at  $a^3$ , to receive said end of the rack-bar.

In order to make a removable engagement of the rack-bar upon the pivot  $a^2$ , I construct said bar with an L-shaped slot,  $c$ , Fig. 2, whereby it can be readily engaged in place and separated therefrom. To form a firmer engagement of the rack-bar upon said pivot, the slot is situated at an angle to the open end, as shown at  $c'$ . Such a construction prevents

any accidental disengagement of the rack-bar and holds it firmly upon the pivot when in use. The operating-lever is also provided with a slot, as shown at  $b'$ , and with a pin,  $b^2$ , to act as a pawl in connection with the rack-bar.

The operation of the device is as follows: The spiked end of the lever B is engaged through the carpet into the floor and the toothed end of the push-bar with the carpet in the direction in which it is to be stretched. The operator at first stands near the foot of the lever and forces its upper end forward toward the toothed end of the push-bar, the rack-bar being so constructed as to ride freely through the slot  $b'$  of the lever and over the pin  $b^2$ , and to hold the lever from retracting until the operation is completed. When the operating-lever is forced forward to the desired extent, the forward end of the push-bar has carried the carpet and stretched it a corresponding distance.

One special feature of my invention is, that in operating it the free end of the lever is carried forward in the direction in which the carpet is being stretched. When the lever has been once thrown forward and a portion of the carpet is stretched thereby, the operator is permitted to step forward to the point of the engagement of the push-bar with the carpet, and so hold what has been gained by his weight while he disengages the stretcher and locates the spiked end of the lever in the floor at his feet, and engages the toothed end of the push-bar forward with the carpet, to repeat the operation already described. This feature of arranging the operating-lever so as to be operated in the direction of the work is an important one, as it enables the operator to step forward to secure his gains, and when he has reached the edge of the carpet to be tacked down his operating-lever is close at hand for use as he applies the tacks.

Another important feature of my invention, to which I call attention, is, that in being constructed and arranged in the manner shown, and above described, the device is capable of being folded up in compact and convenient shape for shipping, or for packing away when not in use. By making the forward end removable from the pivot  $a^2$  the rack-bar may be readily

disengaged therefrom, and drawn out of engagement also with the operating-lever. Said lever may then be folded down upon the push-bar and the rack-bar laid alongside and fastened to the bundle by a cord or otherwise.

The device is simple and economical in construction. By its use, beginning with one side of the room, the carpet can be stretched in an expeditious and efficient manner to the opposite side and all advantage securely held. It can be readily put together for use and taken apart for storing away in a few seconds.

Heretofore a carpet-stretcher has been composed of a handle provided at one end with a cross-head bearing teeth to engage the carpet, a bar pointed at one end, and having its other end bifurcated, and pivoted to the handle intermediate the ends thereof, and a segmental ratchet-bar pivoted to the bar, and extending through and engaging a slot in the handle. Such construction is not my invention, and is not claimed by me.

What I claim is—

1. A folding carpet-stretcher consisting of a horizontal push-bar, A, provided with a slot,  $a^3$ , containing a cross-pin,  $a^2$ , said push-bar toothed at its forward end and provided at the opposite end with a lever hinged thereto, so as to be folded down flat upon said push-bar, said lever constructed with a slot,  $b'$ , containing a cross-pin,  $b^2$ , and in combination therewith a rack-bar, C, engaging the cross-pin  $b^2$  of said lever and detachably engaged with the cross-pin  $a^2$  of said push-bar, the construction and arrangement being such that in operation the top of the lever will be moved forward in the

direction of the work and push said push-bar forward in the same direction in which the carpet is being stretched, substantially as described.

2. A folding carpet-stretcher consisting of a lever spiked at its lower end to engage the floor, and provided with a slot,  $b'$ , containing a cross-pin,  $b^2$ , a push-bar extending forward of the lever, upon which said lever is hinged and fulcrumed, said push-bar toothed at its forward end to engage the carpet, and provided with a slot,  $a^3$ , containing a cross-pin,  $a^2$ , and in combination therewith a rack-bar, C, engaging the cross-pin  $b^2$  of the lever and detachably engaged with the cross-pin  $a^2$  of the push-bar, the construction being such that the top of the lever will move forward and force forward the push-bar in the direction in which the carpet is being stretched, substantially as described.

3. In a carpet-stretcher, the combination of the push-bar A, having a slot,  $a^3$ , and a pin,  $a^2$ , located therein, the operating-lever B, hinged to the rear end of said push-bar and provided with a slot,  $b'$ , and a pin,  $b^2$ , located in said slot, and the rack-bar C, having at one end the L-shaped slot  $c c'$ , detachably engaging the pin  $a^2$ , and formed at its opposite end with rack-teeth for engaging the pin  $b^2$ , substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

ADONIRAM DANN.

Witnesses:

FRED C. BLOOD,  
FRANK HART.