

Dec. 19, 1939.

J. C. OWENS

2,184,019

CARPET STRETCHER

Filed Nov. 6, 1936

Fig. 1.

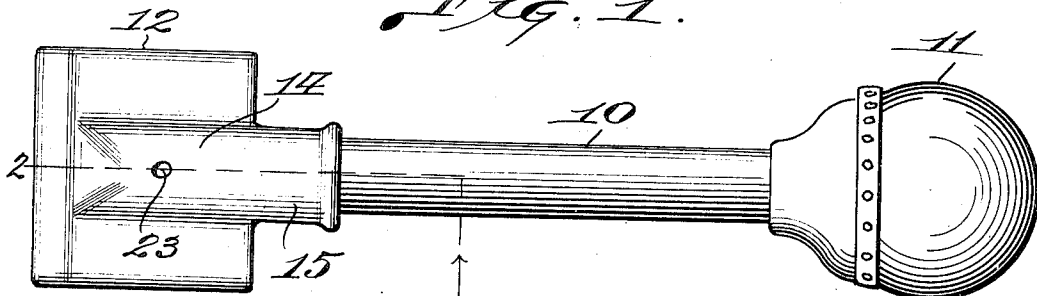


Fig. 2.

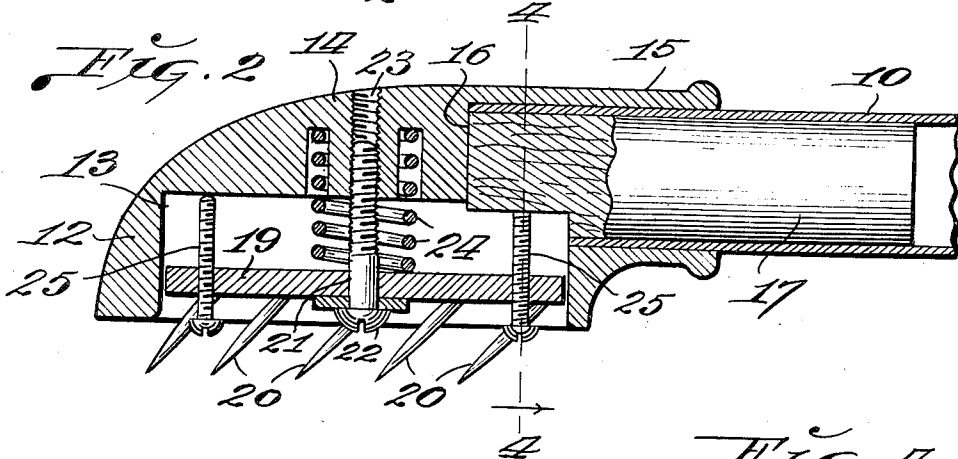


Fig. 3.

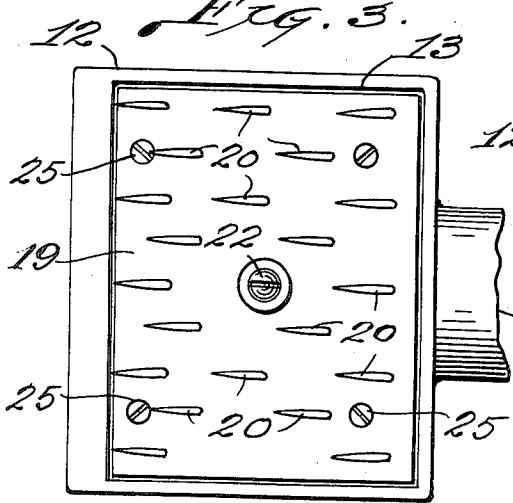
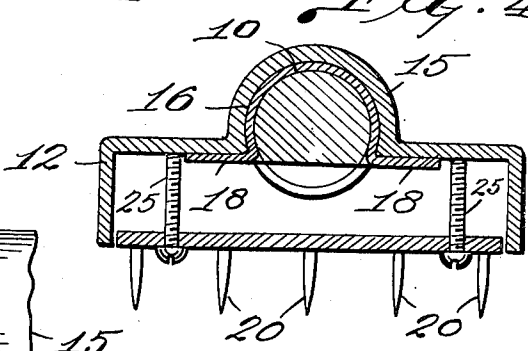


Fig. 4.



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2,184,019

CARPET STRETCHER

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Application November 6, 1936, Serial No. 109,486

2 Claims. (Cl. 45—89)

My invention relates to a carpet stretcher, and has for its principal object the provision of a relatively simple, practical and inexpensive carpet stretcher that comprises a short rod or bar that may be associated with an extensible member, or provided on one end with a pad that is engaged by the knee of the operator and the forward end of said rod or bar carrying a head in which is mounted for adjustment, a plate carrying a series of prongs that are adapted to engage the carpet during stretching operations.

In the accompanying drawing, and in the following description, the carpet stretcher is set forth as being of the type that is moved forwardly, or that portion comprising the adjustable carpet-engaging prongs may be readily associated with the extensible form of carpet stretcher disclosed in my co-pending application for United States Letters Patent on Carpet stretcher filed June 15, 1936, Serial No. 85,222.

A further object of my invention is to provide a carpet stretcher head in which is mounted for vertical adjustment, a prong-carrying plate, the adjusting movement of which in one direction is yieldingly resisted by a spring, and to provide simple and efficient means for firmly holding the prong-carrying plate after adjustment.

With the foregoing and other objects in view my invention consists in certain novel features of construction and arrangements of parts that will be hereinafter more fully described and claimed and illustrated in the accompanying drawing in which:

Fig. 1 is a top plan view of a carpet stretcher constructed in accordance with my invention.

Fig. 2 is an enlarged vertical section taken on the line 2—2 of Fig. 1.

Fig. 3 is a view looking against the underside of the head of the carpet stretcher.

Fig. 4 is a section taken on the line 4—4 of Fig. 2.

Referring by numerals to the accompanying drawing which illustrates a preferred embodiment of my invention, 10 designates a metal tube that forms the body of the stretcher, and applied to the rear end thereof, is a pad 11 that is adapted to be engaged by the knee of the operator when the stretcher is moved forward to stretch the engaged carpet.

Where my improved stretcher is utilized in connection with the form of stretcher disclosed in my aforesaid co-pending patent application, Serial No. 85,222, the pad 11 is dispensed with and the tube 10 is suitably connected to one end of an extensible member that extends entirely

across the room containing the carpet that is to be stretched.

Positioned on the forward end of tubular member 10 is a substantially rectangular head 12, preferably formed of metal, in the underside of which is formed a chamber 13.

Formed integral with the upper side of the body 12, is a short longitudinally disposed rib 14, the rear end of which is formed integral with the upper portion of a collar 15 that is formed integral with and which projects rearwardly from body 12.

The forward end of tube 10 is inserted through collar 15 into a recess 16 that is formed in the rear portion of rib 14, and seated in the forward portion of tube 10 is a plug 17, preferably of wood.

To effectively retain the head on the forward end of tube 10, the lower forward portion of tube 10 that projects into the chamber 13 is split lengthwise and transversely to form ears 18 that are bent outwardly and thence upwardly, so as to lie flat against the wall of body 12 above chamber 13 and to the sides of the recess 16. (See Fig. 4.)

This arrangement of the ears 18 prevents the head 12 from being pulled off the tube 10, and the plug 17 prevents the collapse of that portion of the tube that is inserted into the head and collar 15.

Arranged to move vertically within chamber 13, is a plate 19, in which is seated the upper ends of a plurality of downwardly and forwardly projecting carpet-engaging prongs 20.

Passing through an aperture 21 that is formed in the central portion of this plate, is a screw 22, the threaded portion of which engages a threaded bore 23 that is formed in the upper portion of body 12 and the rib 14 formed thereon.

Surrounding screw 22 and interposed between the plate 19 and the upper portion of body 12, is an expansive coil spring 24 that normally exerts pressure on the prong-carrying plate to move the same downwardly within chamber 13.

Seated in plate 19 adjacent the corners thereof, are screws 25 and the upper ends of said screws engage the wall of the body above chamber 13 to firmly hold the prong-carrying plate after the same has been adjusted to the desired position.

It will be understood that the prong-carrying plate 19 is made adjustable in order to control and regulate the degree to which the prongs 20 enter the carpet that is being stretched, and

such adjustment being necessary due to the fact that carpets vary to a considerable extent in thickness and in the length of nap.

To elevate prong-carrying plate 19 so that the 5 prongs may be properly positioned for engagement in a relatively thin carpet or a carpet having a short nap, screws 25 are unscrewed so as to lower the same through plate 19, after which screw 22 is screwed upwardly into the threaded 10 bore 23 until said plate 19 has been properly positioned, and to firmly hold same in its adjusted positions, the screws 25 are screwed upwardly through said plate until their upper ends engage against the wall of the head 12 above 15 the chamber 13.

To lower plate 19 so as to cause the prongs 20 to properly engage a relatively thick carpet, or a carpet having a long nap, screw 22 is unscrewed from the bore 23, and spring 24 will 20 force plate 19 downward following the movement of the screw. When plate 19 has been lowered to the proper position, screws 25 are screwed upwardly through the plate 19 to engage the wall above chamber 13, and thus hold the 25 prong-carrying plate in its lowered position.

Thus it will be understood that I have provided a carpet stretcher that is relatively simple in construction, inexpensive of manufacture and very effective in performing the functions for 30 which it is intended.

It will be understood that minor changes in the size, form and construction of the various parts of my improved carpet stretcher may be made and substituted for those herein shown 35 and described without departing from the spirit of the invention, the scope of which is set forth in the appended claims.

I claim as my invention:

1. In a carpet stretcher, the combination with a head provided in its underside with a chamber and a handle secured to and projecting from said head, of a plate arranged for vertical movement 5 and arranged wholly within said chamber, an expansion spring arranged between the central portion of said plate and said head, a series of prongs rigidly fixed to and projecting downwardly and forwardly from the underside of said 10 plate, a screw passing through the center of said plate for moving said plate upwardly within said chamber against the resistance of said spring, the threaded end of which screw is seated in the upper portion of the head and screws seated in 15 said plate adjacent the corners thereof for locking the plate in its adjusted position within said chamber, the heads of which screws are disposed below said plate and the upper ends of which screws bear against the bottom of the chamber 20 in said head.

2. In a carpet stretcher, the combination with a substantially rectangular head and a handle secured to and projecting therefrom, which head is provided in its under side with a recess sur- 25 rounded by four walls, of a loosely mounted plate disposed wholly within said recess above the lower ends of the walls around said recess, a screw passing through the center of said recess with the threaded portion of said screw seated in the head above the recess therein, an expansive 30 coil spring arranged between said plate and said head, which spring is disposed about said screw and screws seated in the corners of said plate with the ends of said screws bearing against the 35 bottom of the recess in the head.

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