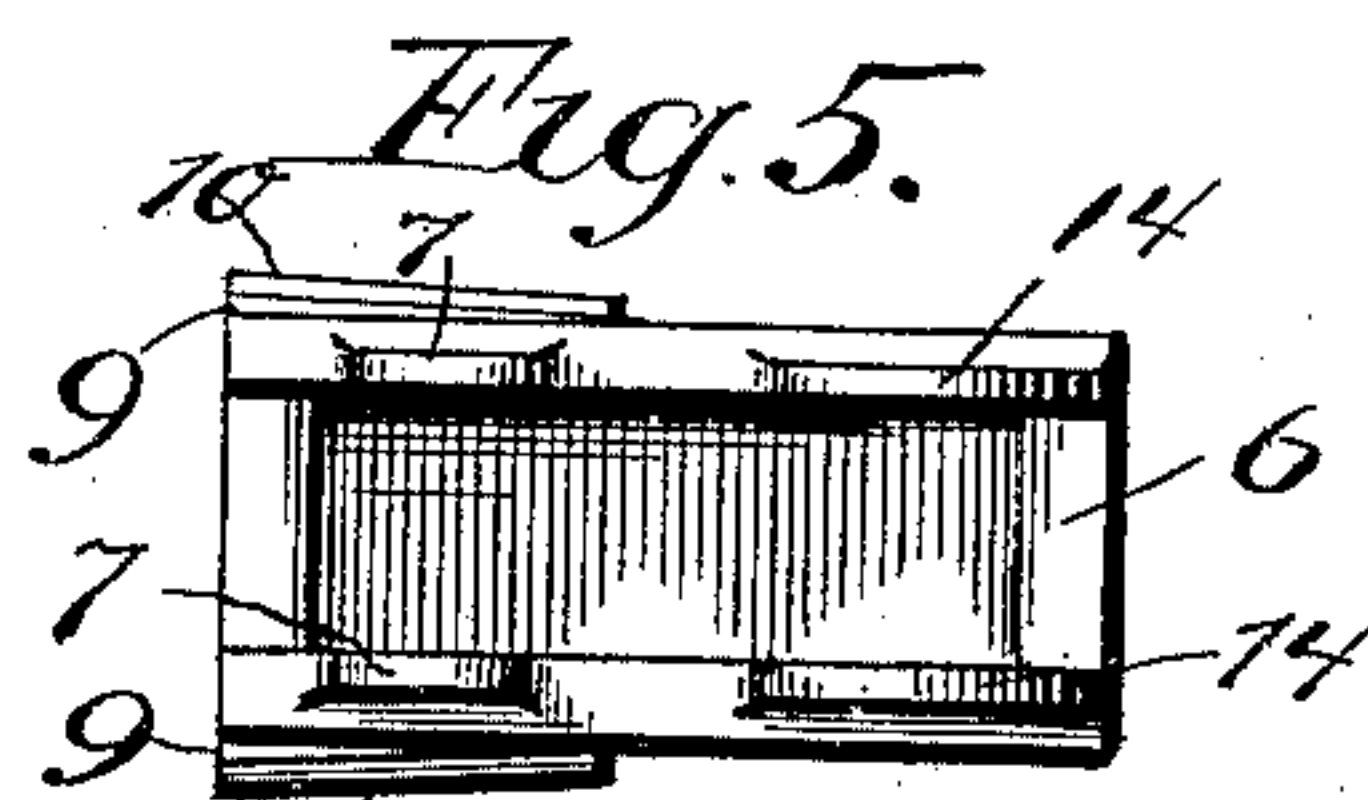
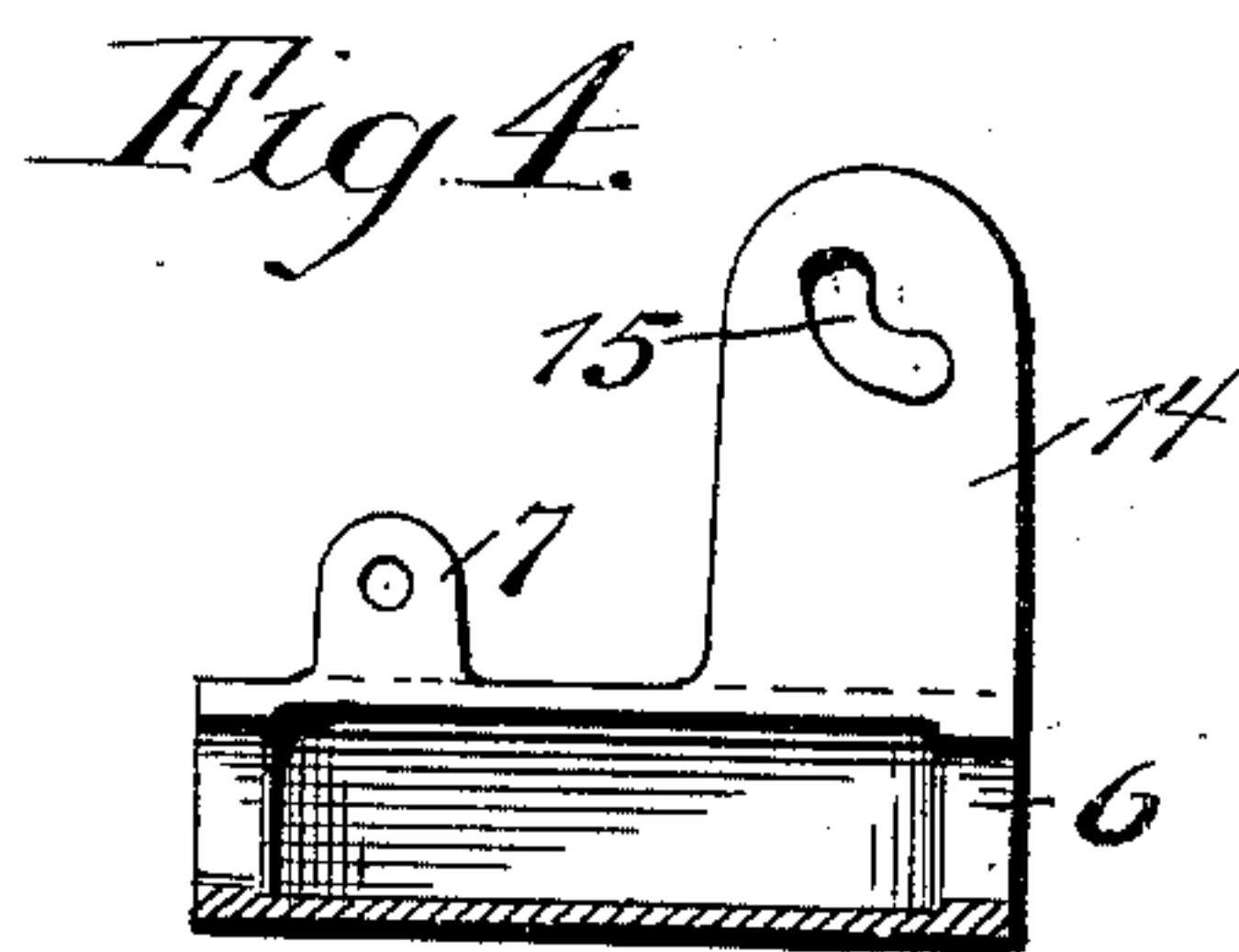
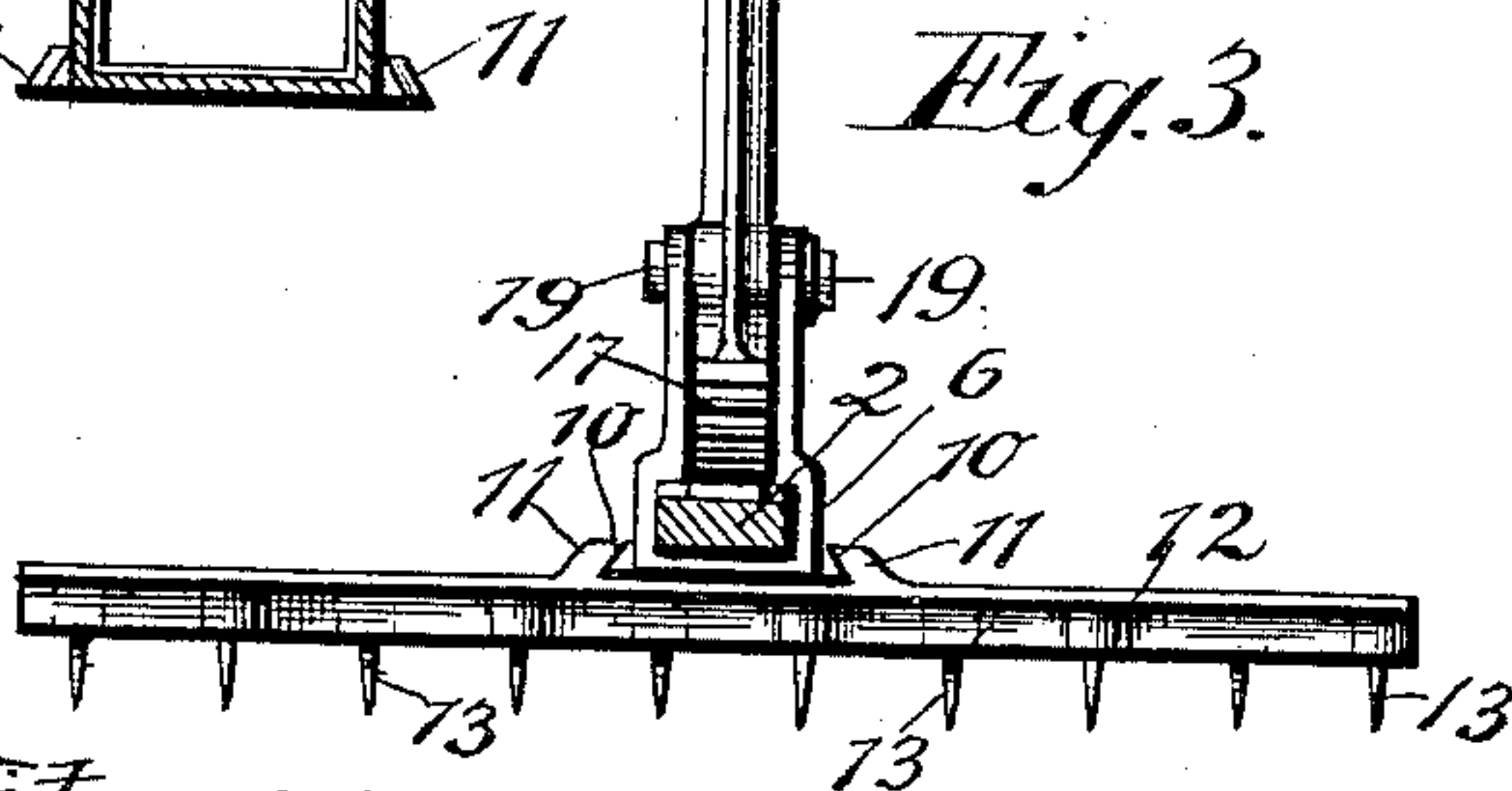
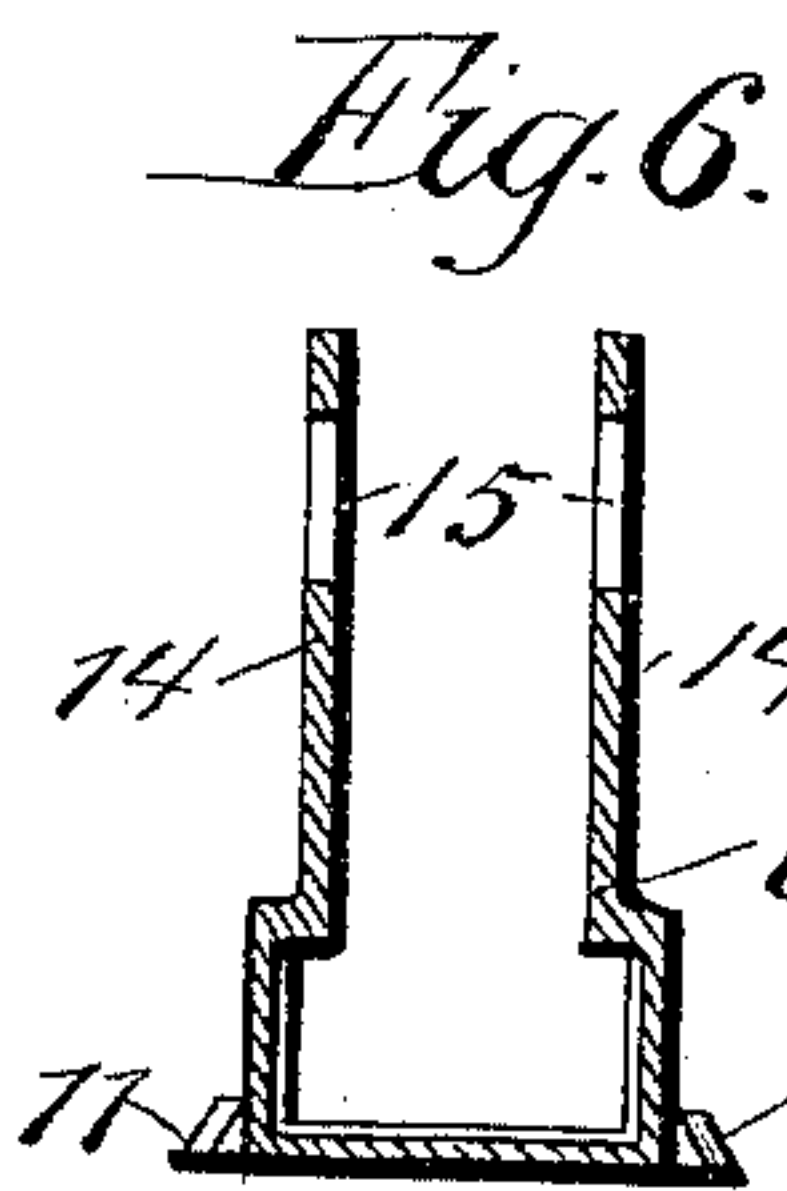
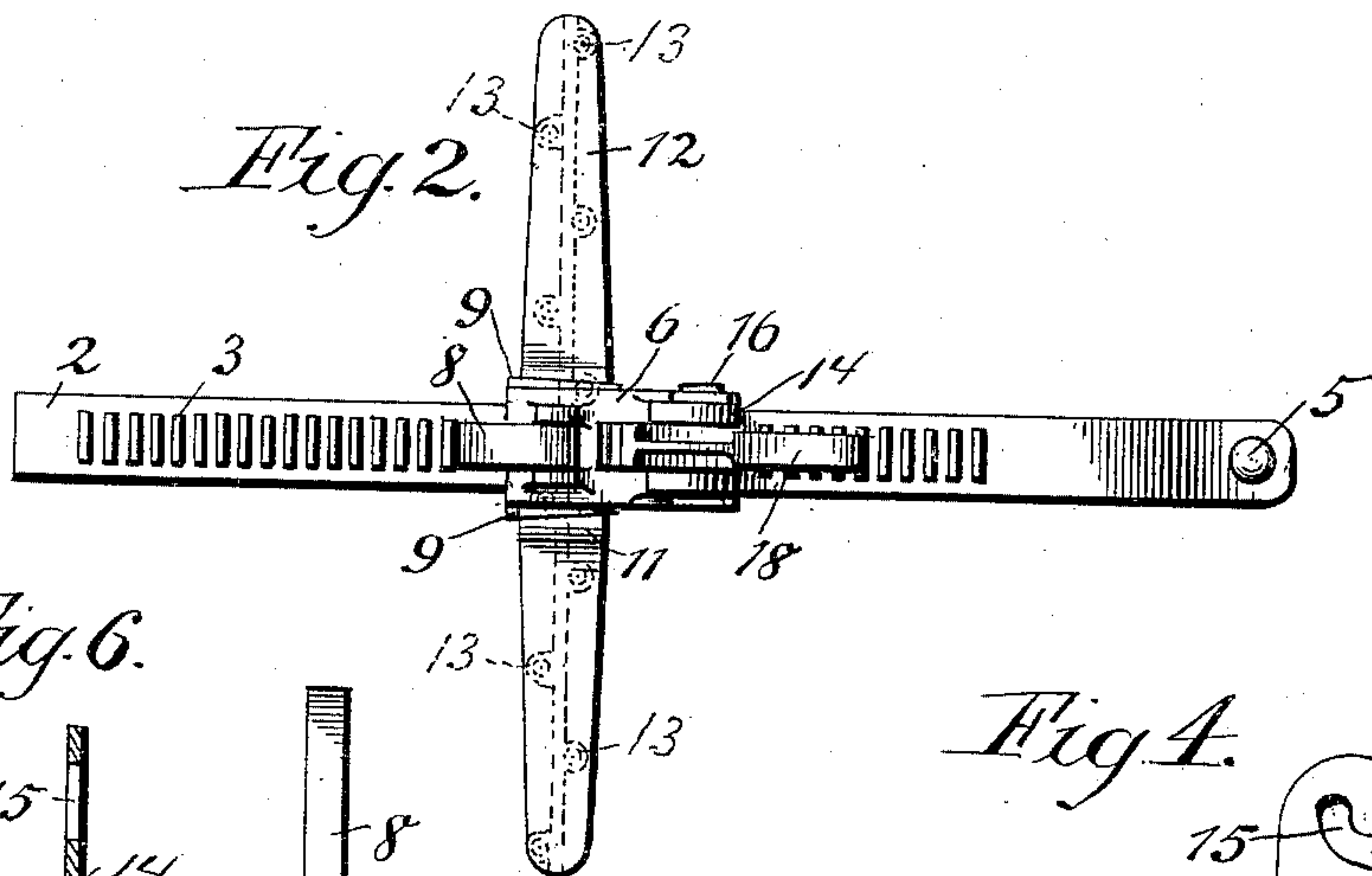
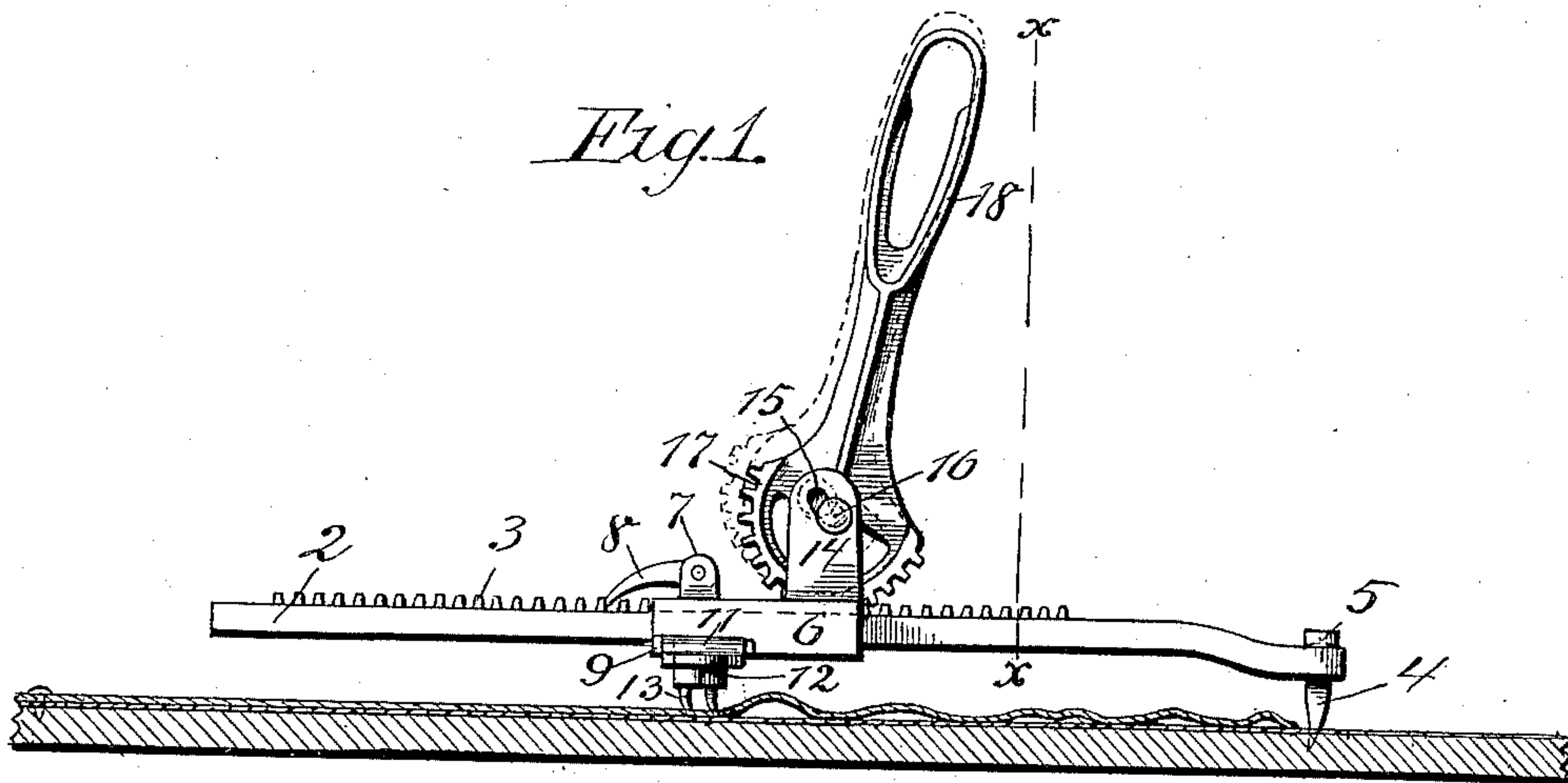


(No Model.)

H. MARTINSON.  
CARPET STRETCHER.

No. 466,829.

Patented Jan. 12, 1892.



Witnesses.

J. Jensen  
O. Hawley

Inventor.  
Henning Martinson.  
By Paul & Merriam.



# UNITED STATES PATENT OFFICE.

HENNING MARTINSON, OF SOUTH PARK, ASSIGNOR OF ONE-HALF TO  
EDWARD P. CALDWELL, OF MINNEAPOLIS, MINNESOTA.

## CARPET-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 466,829, dated January 12, 1892.

Application filed July 6, 1891. Serial No. 398,498. (No model.)

*To all whom it may concern:*

Be it known that I, HENNING MARTINSON, of South Park, in the county of Dakota and State of Minnesota, have invented certain  
5 Improvements in Carpet-Stretchers, of which the following is a specification.

My invention relates to carpet-stretchers; and its object is to provide a simple, cheap, and durable carpet-stretching device which  
10 will be powerful and positive in its action.

My invention consists in a straight rack-bar provided with a peg adapted to be driven into the floor, in combination with a rectangular sleeve adapted to slide on said bar and  
15 carrying a pawl adapted to engage the teeth of said rack, a quadrant-gear arranged on a suitable handle or lever and movably secured on said sleeve, and a toothed cross-bar secured on said sleeve and adapted to engage  
20 the carpet.

My invention consists, further, in various constructions and in combinations herein-after described, and particularly pointed out in the claims.

25 In the accompanying drawings, forming a part of this specification, Figure 1 is a general vertical elevation of a carpet-stretcher embodying my invention. Fig. 2 is a plan view thereof. Fig. 3 is a sectional view on the line  
30 *xx* of Fig. 1. Figs. 4, 5, and 6 are respectively detail views of the movable sleeve.

As shown in the drawings, the rack-bar 2 is provided with the teeth 3, and at its forward end it is preferably depressed somewhat, and is provided with the sharp steel  
35 nail or peg 4, shrunk into the cast rack-bar and provided with the head 5, adapted to be struck with a hammer to drive the peg into the floor. The sleeve 6 has the rectangular  
40 form shown and is adapted to move upon the rack-bar. The ears 7 are provided on each side of the sleeve, the top of which is open, and the pawl 8 is pivotally secured between the said ears and adapted to engage the teeth  
45 3 through said open top of the sleeve. The lower part of the sleeve is provided with the wedge portion 9, having the inclined edges 10, adapted to engage the ribs or shoulders 11, arranged to receive the same and provided  
50 on the top of the cross-bar 12. The cross-bar is thus made detachable from the sleeve. The largest portion of the wedge is farthest away from the end of the rack-bar, and hence the harder the pull on the sleeve the stronger

the connection between the same and the cross-bar. This cross-bar is provided with the forwardly-curved teeth or pegs 13, adapted to stick down into the carpet. Preferably these pegs are arranged in alternate position on each side of the center line of the cross-bar, as shown in Fig. 2, whereby the strong engagement is had with the carpet, while at the same time danger of tearing the same is avoided. Upon the sides of the sleeve I erect the taller ears or lugs 14, provided with the quadrant-shaped slots 15, adapted to receive the pivot bolts or pin 16 of the toothed quadrant or pinion 17, which, when the handle 18 is forced down and forward, is adapted to mesh with the teeth on the rack-bar. The slot 15 is of such a height that when the handle is pushed back away from the wall the pin 16 may move up far enough to let the teeth of the quadrant ride up free of and over the teeth on the rack-bar, thereby making it possible, after the disengaging of the pawl 8 to move the rack-bar through the sleeve, to return the sleeve to end thereof. Heads 19 are provided on the pin 16.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, in a carpet-stretcher, of the rack-bar 2, with the sleeve 6, having the wedge portion 9, the cross-bar having pins 13 and shoulders 11, adapted to engage said wedge portion and said sleeve, and means for moving said sleeve with respect to said bar, substantially as described.

2. The combination, in a carpet-stretcher, of the rack-bar, with the movable sleeve, the cross-bar arranged thereon and having pins or pegs to engage the carpet, a pawl on said sleeve to engage said rack-bar, a toothed quadrant or segment adapted to engage said bar, the pin 16, and the lugs 14, provided with slots 15, adapted to receive said pin, whereby upon being operated positively said gear meshes with the teeth upon said rack-bar and when oppositely operated rides over the same, substantially as described, and for the purpose specified.

In testimony whereof I have hereunto set my hand this 29th day of June, 1891.

HENNING MARTINSON.

In presence of—

C. L. CALDWELL,  
A. MAE WELCH.