(No Model.)

A. F. LAMB.

CARPET STRETCHER AND TACKER.

No. 395,445. Patented Jan. 1, 1889.

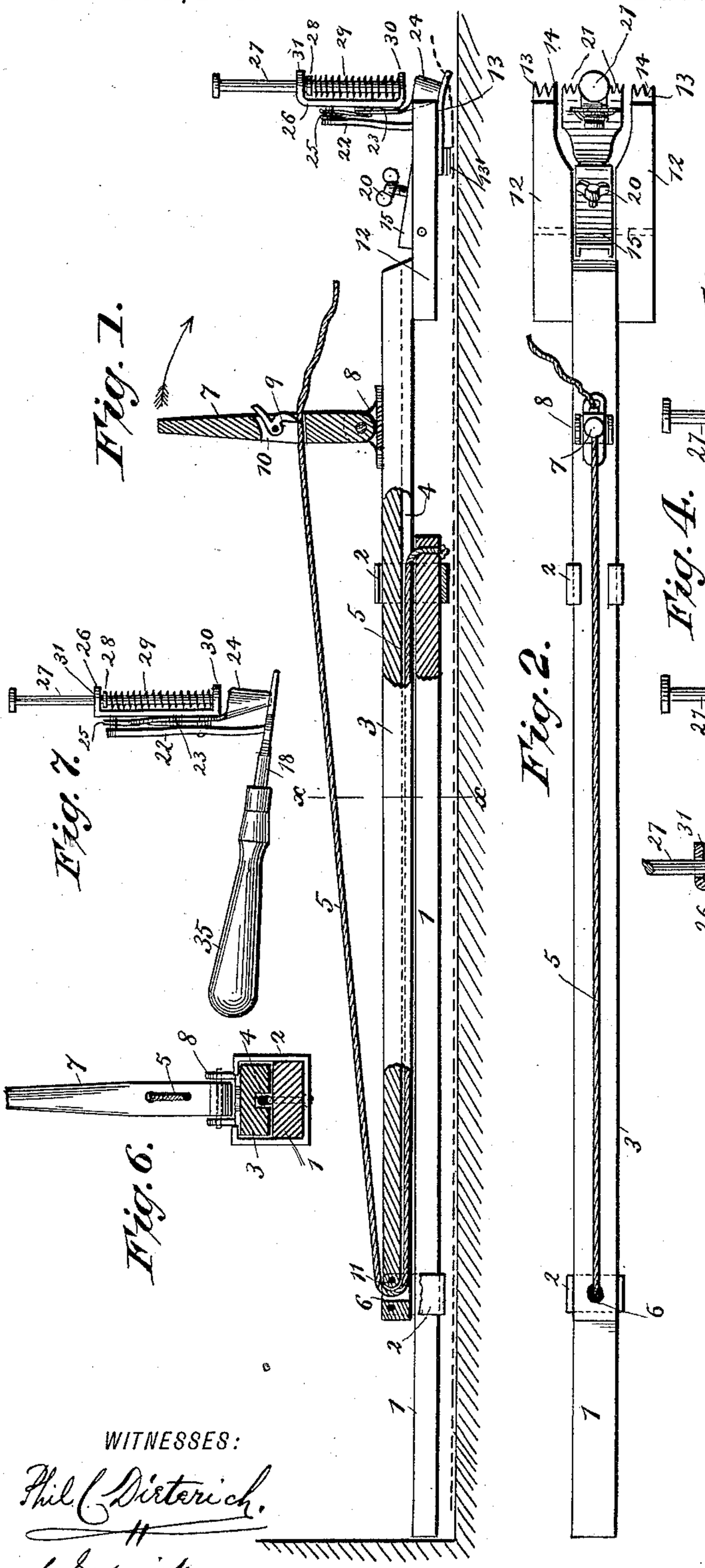

Fig. 1.

Fig. 2.

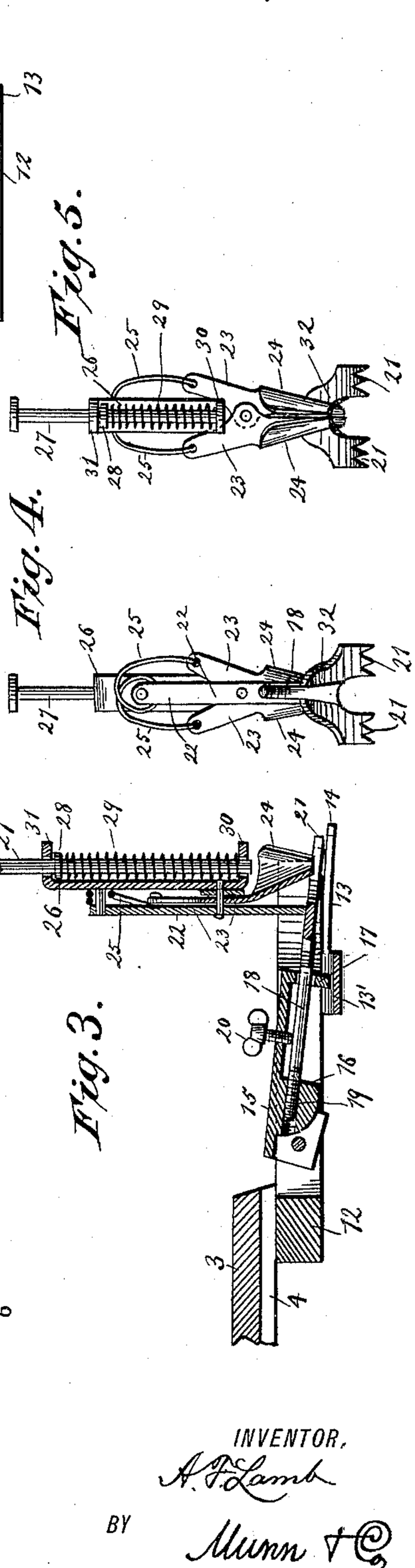

Fig. 5.

Fig. 4.

Fig. 3.

Fig. 6.

WITNESSES:

Phil. C. Dieterich.

C. Sedgwick.

INVENTOR.

A. F. Lamb

BY Munn & Co

ATTORNEY.

UNITED STATES PATENT OFFICE.

AUSTIN F. LAMB, OF STOCKBRIDGE, VERMONT.

CARPET STRETCHER AND TACKER.

SPECIFICATION forming part of Letters Patent No. 395,445, dated January 1, 1889.

Application filed April 26, 1888. Serial No. 271,907. (No model.)

To all whom it may concern:

Be it known that I, AUSTIN F. LAMB, of Stockbridge, in the county of Windsor and State of Vermont, have invented a new and Improved Carpet Stretcher and Tacker, of which the following is a full, clear, and exact description.

This invention relates to a mechanism for stretching and tacking carpets, and has for its object to provide an effective apparatus by means of which a carpet may be easily stretched and fastened down.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side view of the improvement with parts in section and parts broken away, illustrating it in operative position. Fig. 2 is a plan view thereof. Fig. 3 is a detail view in vertical section, with parts broken away, of the tacking portion of the device. Fig. 4 is a rear view of the tacking device. Fig. 5 is a front view thereof. Fig. 6 is a detail view, with parts in section on the line *x x* in Fig. 1, of the lever for operating the stretcher; and Fig. 7 is a view representing the tacker detached with an operating-handle supplied.

In the construction of this invention the stretcher consists of a main piece, 1, formed of a bar of suitable length, on which is mounted and secured, by means of sleeves 2, a sliding bar, 3, having its under side formed with a groove, 4, in which lies a portion of an operating-cord, 5, secured to the inner end of the bar 1 and passing through an opening, 6, in the end of the bar 3, and then extending to a lever, 7, pivoted to a bracket, 8, on the bar 3, and held in adjustable position by means of a pivoted catch or pawl, 9, located in a recess, 10, in the lever 7. To avoid friction, the opening 6 may be provided with a pulley, 11, over which the cord 5 passes.

The outer end of the bar 3 is provided with a head piece or frame, 12, in the shape of a fork provided with downwardly-bent plates 13, having a cross-piece, 13′, which extends across the opening of the forked head 12, said plates 13 having serrated ends 14. Within the forked head 12 is pivoted a frame, 15, having a threaded hole, 16, and a perforated lug, 17. Within the perforated lug 17, and engaging the threaded hole 16, is an arm, 18, having a threaded end, 19, engaging the hole 16, and held in place by means of a set-screw, 20, in the top of the pivoted frame 15. The outer end of the arm 18 is formed in the shape of a fork with serrated points 21. The normal position of the forked arm 18 corresponds with the position of the plates 13, bringing the serrated points 14 and 21 in line, the end of the pivoted frame 15 resting on the cross-piece 13′.

Upon the forked end of the bar 18 is mounted a device for driving tacks, consisting of a standard, 22, having pivoted thereto the arms 23, the lower ends of which are formed with partly-closed tapering portions 24, constituting together a casing for a tack, and the upper arms of which are fastened to the ends of the spring-wire arms 25, acting by tension to keep the folded ends 24 in closed position. Upon the standard 22 is also mounted a bracket, 26, through which passes the tack-plunger 27, having a fixed projection or flange, 28, and a coil-spring, 29, encircling the plunger 27 and located between the flanged projection 28 and the lower projection, 30, of the bracket 26, the upward movement of the plunger being limited by the flanged projection 28 abutting against the projection 31 of the bracket 26. The lower opening, 32, of the folded portions 24 projects between the arms of the forked end of the bar 18. It will be seen that by means of this construction a tack placed in the closed portions 24 will be held therein by means of its head, and upon the descent of the plunger 27 will be driven out through the opening 32 of the folded portions 24, the head of the tack and the plunger separating the said portions 24, which close automatically by the tension of the springs 25 after the plunger has been withdrawn therefrom.

In operating the stretcher the main piece 1 is placed on the floor, with its outer end abutting against the wall of the room, and the forked head 12, having been adjusted to the desired position, with the serrated points 14 and 21 pressing into the carpet, the cord 5 is fastened to the lever 7 by means of the pivoted catch 9, and the lever 7 is then pulled forward, thereby causing the bar 3 to be drawn forward on the bar 1, which acts to stretch the carpet. A tack having been placed in the

folded portions 24 is driven into the carpet at the stretched point, as hereinbefore referred to, by means of the plunger 27.

If it be desirable to use the tacking device separately from the stretcher, it may be detached by unscrewing the set-screws 20 and arm 18, and it may then be used with a handle, 35, screwed on the threaded end 19 of the bar 18.

While I have described a specific construction and arrangement of parts, I do not intend to limit myself thereto, as they may be varied without departing from the essential features of the invention.

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

1. In a combined carpet stretcher and tacker, the combination, with a stationary bar and a sliding bar having a forked and serrated end, of a pivoted frame on the end of the sliding bar, a bar adjustably secured in the said frame, and a tacker carried on the end of the said bar, substantially as herein shown and described.

2. In a combined carpet stretcher and tacker, the combination, with a stationary bar, a sliding bar having a forked and serrated end, and means for operating the said sliding bar, of a pivoted frame on the forked end of the sliding bar, a bar having a forked and serrated end and adjustably secured in the pivoted frame, and a tacker on the forked end of the said adjustable bar, substantially as herein shown and described.

3. In a combined carpet stretcher and tacker, the combination of a stationary bar, a sliding bar having a forked and serrated end, a lever pivoted to the sliding bar and provided with a catch, a rope secured to the stationary bar, passed under and through an aperture in the sliding bar and engaged by the catch on the said lever, a pivoted frame on the forked end of the sliding bar, a bar having a forked and serrated end and adjustably secured in the pivoted frame, and a tacker on the forked end of the said bar, substantially as herein shown and described.

4. The combination, with the bar 18, having a forked and serrated end, and the standard 22, carried by said bar and provided with the bracket 26, of the arms 23, pivoted to the standard and having partly closed and tapering lower ends, the spring-arms 25, for holding the arms 23 closed, the plunger 27, working in the bracket 26, and the spring 29, surrounding the plunger, substantially as herein shown and described.

5. A combined carpet stretcher and tacking mechanism, consisting of the main bar 1 and the extensible bar 3 sliding thereon, held together by means of the sleeves 2, the outer end of the sliding bar 3 being formed with a forked head, 12, having the arms 13 and cross-piece 13′ and serrated ends 14, and the frame 15, pivoted in the forked head 12 and having mounted therein a bar, 18, secured by the set-screw 20, and formed with a forked end having serrated points 21, and a tack-driving mechanism consisting of a standard, 22, mounted on the forked end of the bar 18, and provided with pivoted arms 23, having the lower tapering folded ends, 24, and the spring-arms 25, connected with their upper ends, and a spring-actuated plunger, 27, mounted on the frame 22, together with means for extending the sliding bar 3, consisting of the cord 5, fastened in the inner end of the bar 1, passing through a groove, 4, in the bottom of the bar 3, and an opening, 6, in the end of the bar 3, and secured to a lever, 7, mounted on the bar 3, by means of a pivoted catch, 9, substantially as described.

AUSTIN F. LAMB.

Witnesses:
HARVEY W. BLACKMER,
SELWIN R. MORSE.