

Z. A. WARD.

Carpet-Stretchers and Tackers.

No. 145,604.

Patented Dec. 16, 1873.

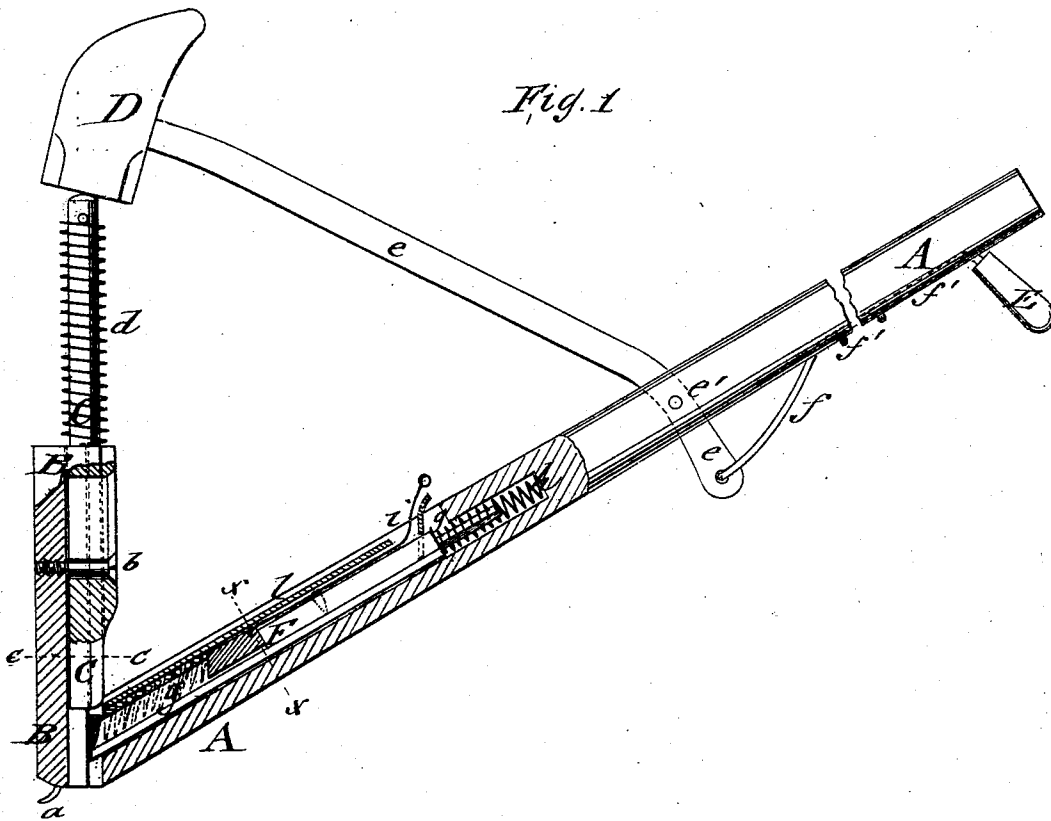


Fig. 1

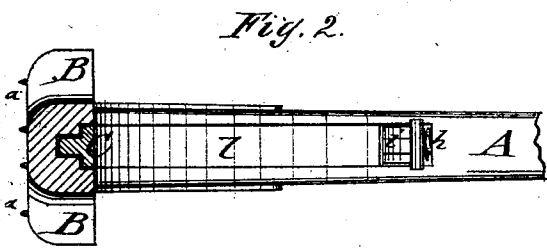
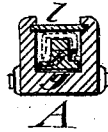


Fig. 2

Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

ZADOCK A. WARD, OF PITTSFIELD, MASSACHUSETTS.

IMPROVEMENT IN CARPET STRETCHERS AND TACKERS.

Specification forming part of Letters Patent No. 145,604, dated December 16, 1873; application filed August 16, 1873.

To all whom it may concern:

Be it known that I, ZADOCK A. WARD, of Pittsfield, in the county of Berkshire and State of Massachusetts, have invented a new and useful Improvement in Combined Carpet Stretcher and Tacker, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved combined carpet stretcher and tacker, partly in section; Fig. 2, a top view, partly in horizontal section, on line C C, Fig. 1; and Fig. 3, a vertical section through the tack-conductor, on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention is an improvement in the class of implements for simultaneously stretching and nailing carpets, in which a hammer and tack or nail conducting channel and toothed pusher are main elements. The invention relates to a construction and combination of a pivoted hammer, a conductor for the nails, and a spring-bolt for operating on the same, all as hereinafter described.

In the drawing, A represents the handle of the instrument, of suitable height to be held and operated by the hands. To the lower end of handle A is rigidly connected, under suitable angle, the upright guide-piece B, which is provided at its broader lower part with forward curved teeth or pins *a*, for the taking hold and stretching of the carpet. Guide-piece B is recessed in suitable manner for the sliding spring-bolt C, which is of T shape at its lower part, slotted in its middle part, and round at its upper part. A guide and stop pin, *b*, with projecting head, retains the bolt C in piece B, and defines its upward and downward motion. A spiral spring, *d*, is coiled around bolt C, and acts on a collar, *d'*, of the same, and on top part of piece B, to produce the upward motion of bolt C after it has been forced down by the stroke of the swinging

hammer D. The hammer D is applied to curved lever *e*, having its fulcrum at *e'* in handle A. The lever *e* projects at some distance below fulcrum *e'*, and is connected at its end with a curved rod, *f*, which slides in a groove and staples, *f'*, of handle A, to be operated by a shorter handle, E.

The tack conducting and feeding arrangement is placed into a recess, *g*, at the upper side of the lower part of handle A, adjoining and opening into the T-shaped recess of piece B. A T-shaped tack-conductor, F, slides in inverted position in recess *g*, by the action of coiled spring *h* on its upper part, projecting into the recessed part of piece B. The U-shaped carpet-tacks are placed one adjoining the other on the central part of conductor F through the opening V, and held thereon by means of covering-plate *l*. The tacks are fed by conductor F and a weighted follower below bolt C into the recess of piece B, and acted upon by spring-bolt C, which drives them into the carpet at the required time, forcing on its downward passage at the same time the conductor F up in handle A. Spring *h* carries conductor F back, and with it the next tack thereon, into the opening of piece B, ready for the next stroke of the hammer D, stretching and tacking the carpet at the same time.

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

The handle A, provided with the recess to receive the U-shaped tack, the spring conductor F, the guide-piece B, armed with teeth *a*, and having a T-shaped recess in its lower end, the spring-bolt E of corresponding form, the hammer D, with curved pivoted arm or lever *e*, and operating device *e f*, all operating as shown and described.

ZADOCK A. WARD.

Witnesses:

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