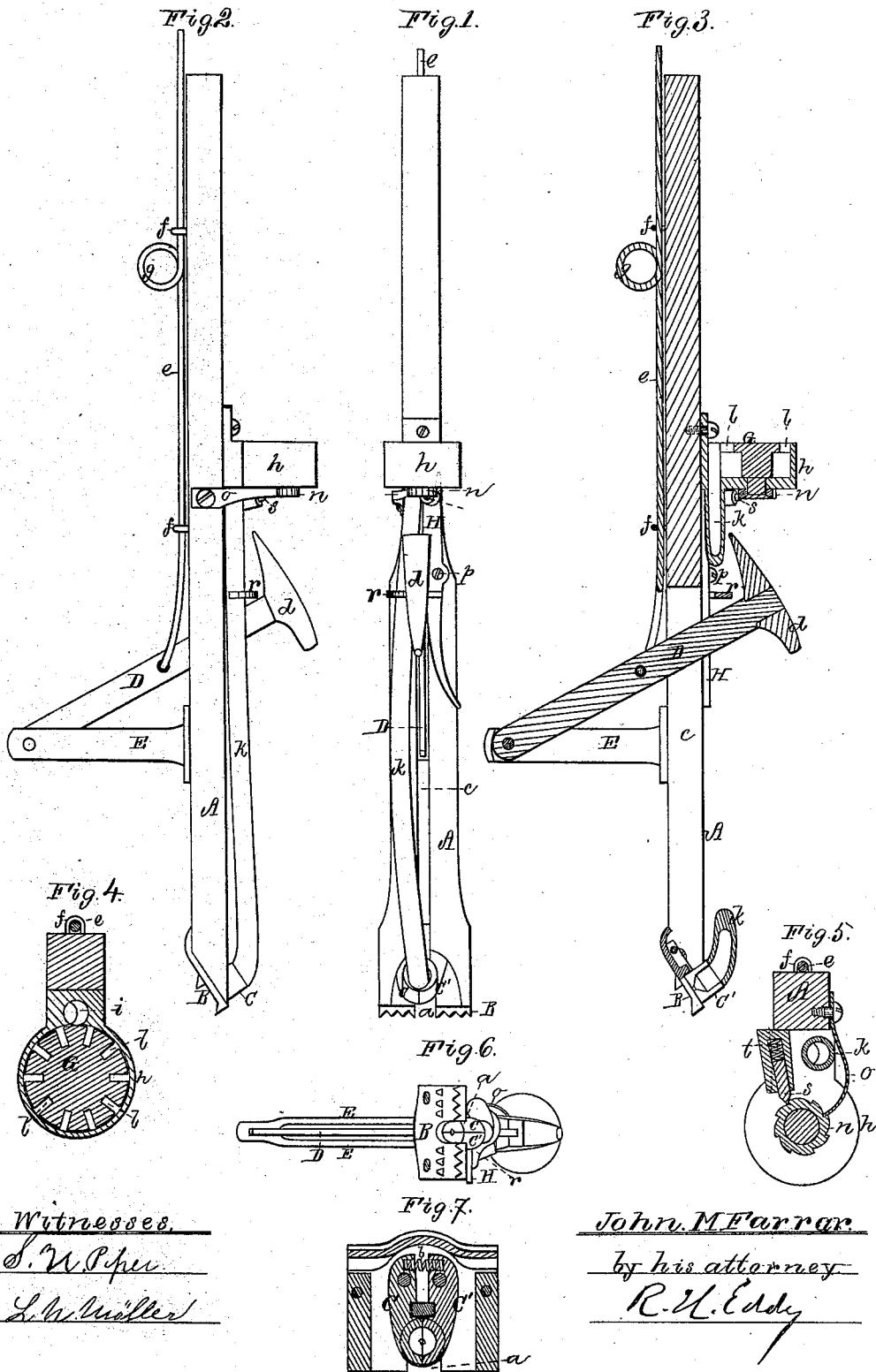


J. M. FARRAR.

COMBINED CARPET-STRETCHER AND TACK-DRIVER.

No. 177,704.

Patented May 23, 1876.



Witnesses.
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UNITED STATES PATENT OFFICE

JOHN M. FARRAR, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN COMBINED CARPET-STRETCHERS AND TACK-DRIVERS.

Specification forming part of Letters Patent No. **177,704**, dated May 23, 1876; application filed April 24, 1876.

To all whom it may concern:

Be it known that I, JOHN M. FARRAR, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful Machine for Stretching and Tacking Carpets; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view; Fig. 2, a side elevation; Fig. 3, a longitudinal section; and Figs. 4 and 5 are transverse sections, and Fig. 6 a front-end view, of it. Fig. 7 is a section taken obliquely through its tack-receiving jaws.

In such drawings, A denotes a furcated stretcher or bar, provided at its larger end with a toothed foot, B, shaped as shown. This toothed foot has an opening, *a*, through its middle, and over such opening it also has a pair of socketed jaws, C C', which, arranged as shown, are pivoted to the foot, and provided with a spring, *b*, for closing them. There is extended through the slot *c* of the bar A the shank D of a hammer, *d*, such shank, near its lower end, being pivoted to arms E E, extended down from the bar A. A rod, *e*, jointed to the shank D, and supported in guides or staples *f f*, and furnished with a handle, *g*, and arranged with the bar A in manner as shown, serves to enable a person to move the hammer back and forth in the sector of a circle. During its advance the hammer-head passes between the tack holders or jaws, and separates them asunder, in order to expel from them and drive a tack when held between and by them.

In carrying out my invention I have combined with such a bar, A, its spurred foot B, tack receiving and holding jaws, and hammer and its operative mechanism, a tack-feeder, or an apparatus for supplying the jaws with tacks, which apparatus may be described as follows:

In the drawings, *h* is a cylindrical case, open at its rear end, and at bottom opening into a conduit, *i*, which communicates with a long tube, *k*, bent in manner as shown, and leading from the conduit *i* to and over the mouths of the tack-receiving jaws. Within the case *h* is a wheel, G, provided with a se-

ries of notches, *l*, in its periphery, they being arranged at equal distances apart. On the arbor of said wheel is fixed a ratchet-wheel, *n*, against whose circumference a retaining-spring, *o*, bears, such spring being projected from the bar A. A lever, H, shaped as represented, is arranged on the bar A, and pivoted thereto, the fulcrum or pivot of the lever being shown at *p*. From the front arm of the said lever a hook, *r*, extends over and hooks upon the tube *k*. The rear arm of the lever carries a vertically-sliding pawl, *s*, provided with a spring, *t*, to force it up to the periphery of the ratchet-wheel *n*.

If we suppose each of the notches of the feed-wheel G to be supplied with a tack, inserted point foremost therein, we shall find that whenever any notch is brought to its lowest position its tack will be discharged into the conduit *i*, and from thence, provided the bar A be suitably inclined, such tack will escape into and pass through the tube *k*, and be discharged by it into the mouth of the jaws C C'. During the next advance of the hammer its head will be thrown against the elastic or spring tube *k*, and will move it laterally off the jaws. By such a movement of such tube the lever H will be moved so as to cause its pawl to move and turn the ratchet-wheel, to cause it to move the feed-wheel around far enough to bring another notch of it directly over the conduit *i*, thereby causing another tack to be discharged into such conduit. During each recession of the hammer its shank will be forced against the anterior curved arm of the lever H, and will move such lever so as to cause its pawl to slip back on the ratchet-wheel. During each advance of the hammer a tack held between the jaws will be expelled by it from them.

In using the machine its toothed foot is to be borne against a carpet, so as to crowd it up to a position for being nailed to its floor. This having been accomplished, the hammer is to be impelled forward, so as to cause a tack held by the jaws to be driven from them through the carpet and into the floor.

I do not claim the combination of the bar or staff A, its toothed foot B, tack-jaws C C', and hammer D and its operative rod *e*, such a

combination being represented in the United States Patent No. 163,907, dated June 1, 1875.

I claim—

1. The combination of the bar or staff A, toothed foot B, tack-jaws C C', and hammer D and its operative rod e with a feeding apparatus, substantially as described, composed of the case h, notched feed-wheel G, conduit i, curved tube k, lever H, ratchet-wheel n, impelling-pawl s, and retaining-spring o, all being arranged and applied essentially as and to operate as explained.

2. For feeding tacks for being driven, as explained, the combination of the tube k, case h, conduit i, notched wheel G, ratchet-wheel n, retaining-spring o, and the lever H, provided with the hook r and the impelling-pawl s, all being substantially as explained.

JOHN M. FARRAR.

Witnesses:

R. H. EDDY,
J. R. SNOW.