

J. TOMLINSON.

Improvement in Devices for Driving Staples.

No. 132,221.

Patented Oct. 15, 1872.

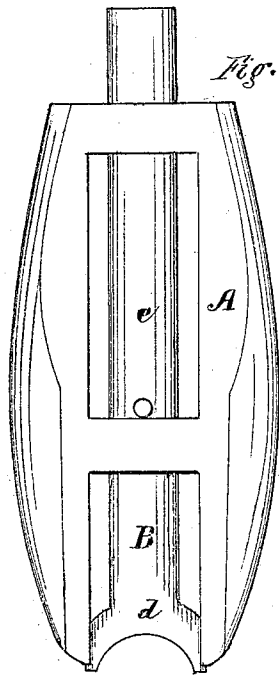


Fig. 1.

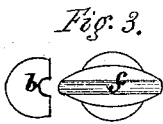


Fig. 3.

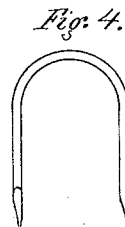


Fig. 4.

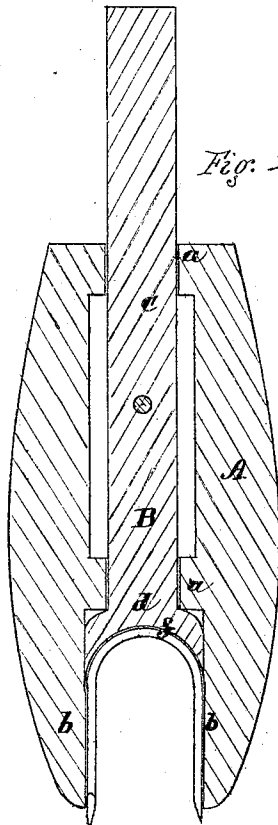


Fig. 2.

Witnesses.

W. A. Loder,
Archie Paine

Inventor:
James Tomlinson,
per R. F. Osgood,
Attorney,

UNITED STATES PATENT OFFICE.

JAMES TOMLINSON, OF GODERICH, CANADA.

IMPROVEMENT IN DEVICES FOR DRIVING STAPLES.

Specification forming part of Letters Patent No. **132,221**, dated October 15, 1872.

To all whom it may concern:

Be it known that I, JAMES TOMLINSON, of Goderich, in the county of Huron and Province of Ontario, Canada, have invented a certain Improvement in Device for Driving Staples, of which the following is a specification:

My invention consists of an instrument for driving staples without bending, constructed, arranged, and operating as hereinafter described.

In the drawing, Figure 1 is an elevation of my improvement with the plunger forced down; Fig. 2, a section of the same with the plunger elevated, and with a staple inserted for driving; Fig. 3, an end view of the plunger; and Fig. 4, a view of a staple.

A represents the frame of the instrument, and B the plunger. The frame is usually made of cast-iron with bearings *a a* for the plunger to run in. It is preferably open in the center, to make it light; but, if desired, may be made whole or closed. In the lower end the sides are formed each with a groove, *b*, Fig. 3, which serves the double purpose of a way or guide to the head of the plunger, and to receive and hold the staple. The plunger consists, simply, of a shank, *c*, the upper end of which receives the blows of the hammer, and a driving-head, *d*, which receives the head of the staple. This head is peculiarly formed, being made concave to fit and receive the round part of the staple, and having also a half-round groove, *f*, to embrace the corresponding part of the

staple. This groove coincides with and is the same size of the grooves *b b* in the sides of the frame, so that when the staple is inserted, as in Fig. 2, it is closely held and embedded around its whole periphery.

This instrument is of service for many uses; but it is especially of value in driving staples into barrel-hoops for forming the lock to hold the ends together. In this case the staple is driven through the wood and clinched on the under side upon an iron mandrel. It cannot be driven in the ordinary way by a hammer like a nail, for the reason that the sides will collapse or bend when it strikes the iron; but by inserting the staple in this instrument, it is held by the grooves *b f* while driving, and the sides cannot collapse or bend under any circumstances, since the pressure is always outward.

The special feature of novelty in my case is the grooves *b f*, which receive the staple all the way around.

What I claim and desire to secure by Letters Patent, is—

The instrument herein-described, consisting of the combination of the plunger B with the frame A, when both are provided with the grooves *b f*, for receiving the staple all the way around its periphery.

JAMES TOMLINSON.

Witnesses:

JAS. LORENZO GAGE,
GEO. A. GAGE.