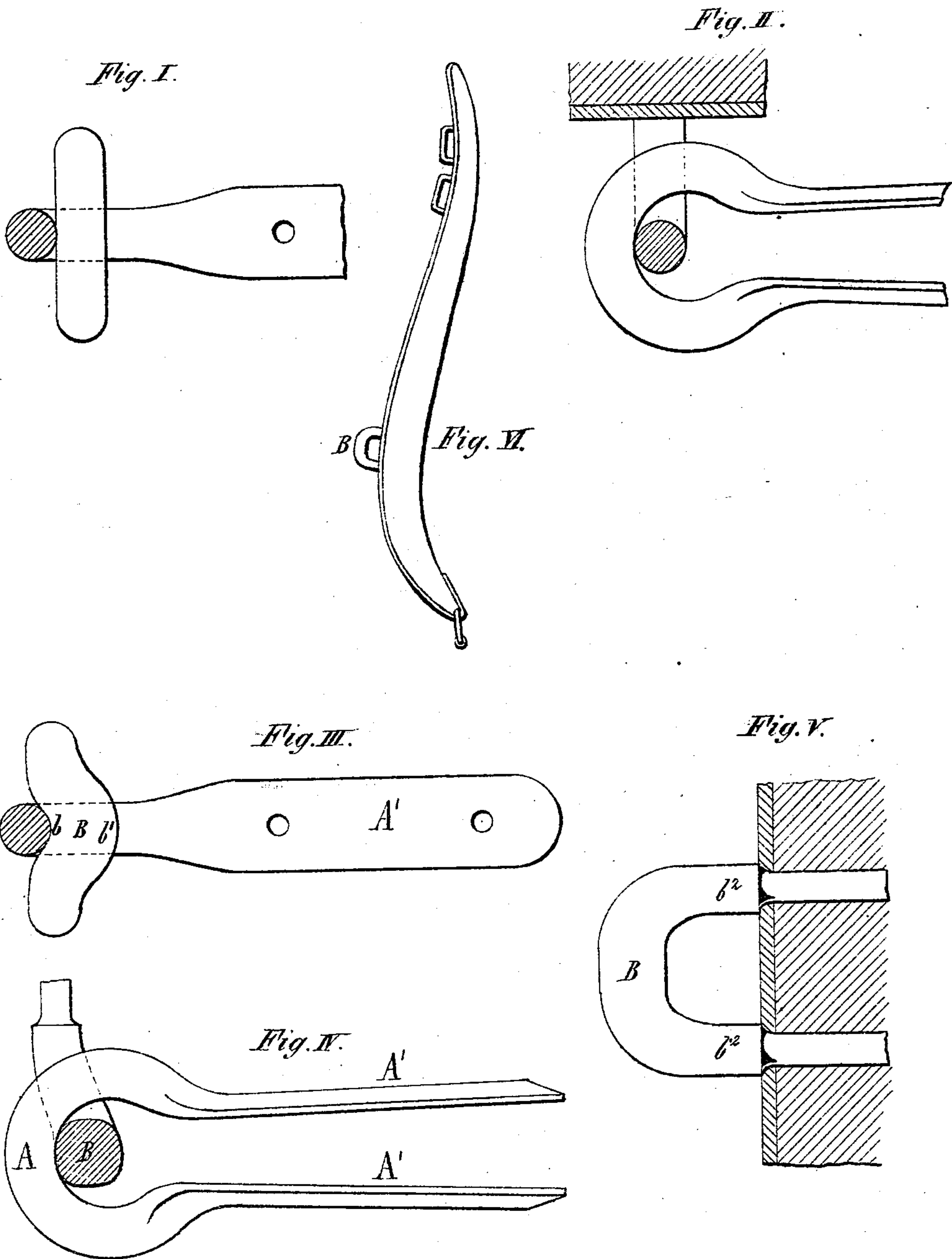


J. LETCHWORTH.
Staple for Hames.

No. 123,350.

Patented Feb. 6, 1872.



Edward Wilhelm
George J. Metzger. } Witnesses

Josiah Letchworth Inventor
by Jay Hyatt atty.

UNITED STATES PATENT OFFICE.

JOSIAH LETCHWORTH, OF BUFFALO, NEW YORK.

IMPROVEMENT IN STAPLES FOR HAMES.

Specification forming part of Letters Patent No. 123,350, dated February 6, 1872.

SPECIFICATION.

I, JOSIAH LETCHWORTH, of the city of Buffalo, in the county of Erie and State of New York, have invented a certain Improvement in Hame-Staples, of which the following is a specification.

Hame-staples have heretofore been made circular in cross-section and of uniform diameter. As the portion of the tug-clip which engages with the staple is of similar form, the surfaces in actual contact, to which the wear is confined, are exceedingly limited, whereby a notch or groove is rapidly formed in the staple, which soon impairs its strength. My invention is designed to remedy this defect, and consists of a hame-staple constructed with a curved recess on one side, forming a seat for the clip, and an enlargement on the opposite side conforming with the shape of the recess, so as to impart the required strength to the staple, as will be hereinafter fully described.

In the accompanying drawing, Figure I is a partly-sectional elevation, and Fig. II a partly-sectional plan view of a hame-staple and tug-clip of ordinary construction. Fig. III is a front elevation of my improved hame-staple, with the tug-clip in section. Fig. IV is a sectional plan view thereof. Fig. V is a side elevation of my improved hame-staple; and Fig. VI represents a hame provided with my improved staple.

Like letters designate like parts in each of the figures.

A represents the round portion of the tug-clip, which engages with the hame-staple, and

A' its flattened ends, between which the tug is secured. B represents my improved hame-staple attached to the hame in the ordinary manner. *b* is the recess formed in the front portion of the staple at the center so as to envelop the portion A of the tug-clip for nearly one-half of the circumference of its cross-section, as clearly shown in Fig. III. *b'* is the enlargement on the back of the hame-staple opposite the recess *b* and conforming with the shape of the latter, so as to compensate for the weakening of the staple by the recess *b*. The portions *b*² of the staple which are next to the hame are preferably made flattened or oval, so as to allow of the engagement of the tug-clip with my improved staple, which is done after the latter is secured to the hame without requiring the portions A' of the clip to be spread more than is required for the insertion of the tug. The surface in contact with the tug-clip is in my improved staple considerable larger than in an ordinary staple, as represented in Figs. I and II, whereby an undue wear at one particular point is prevented and the durability of the staple greatly increased.

What I claim as my invention is—

In combination with a tug-clip, the hame-staple B, constructed with the recess *b* and enlargement *b*¹, substantially as and for the purpose hereinbefore set forth.

JOSIAH LETCHWORTH.

Witnesses:

JAY HYATT,
JNO. J. BONNER.