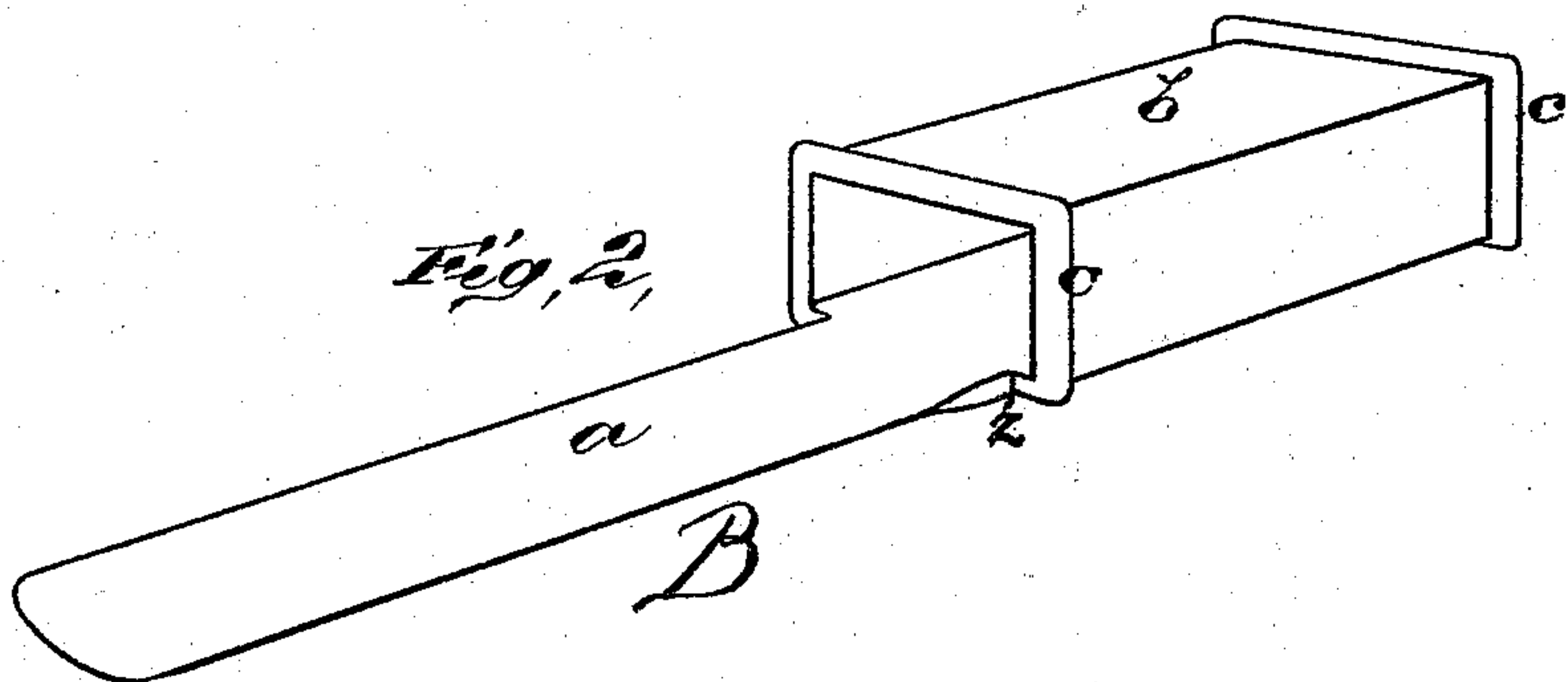
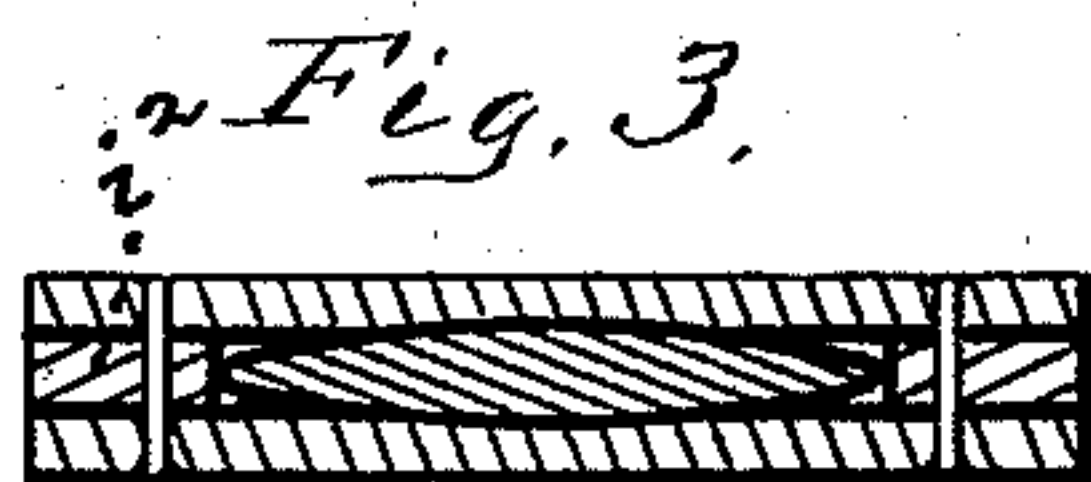
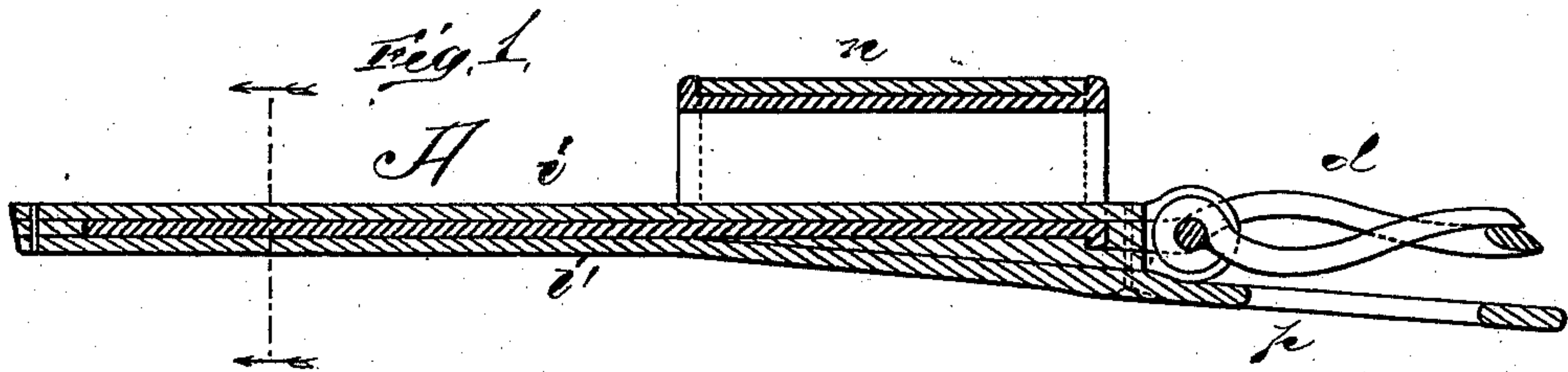


W. H. BUSTIN.
Hame-Tugs.

No. 214,756.

Patented April 29, 1879.



WITNESSES.

Villette Anderson
Emory H. Bates

INVENTOR

William H. Bustin
by E. W. Anderson

ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM H. BUSTIN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN HAME-TUGS.

Specification forming part of Letters Patent No. **214,756**, dated April 29, 1879; application filed March 9, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. BUSTIN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and valuable Improvement in Hame-Tugs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

Figure 1 of the drawings is a longitudinal section of my improved hame-tug. Fig. 2 is a perspective view of the stiffener, showing the raised billet-loop. Fig. 3 is a cross-section.

This invention has relation to improvements in hame-tugs.

The object of the invention is to prevent the tug from breaking off at the junction thereof with the loop when, from the difficulty of getting under said loop, it is not possible to effect a splice without cutting it away.

The nature of the invention consists in the construction and novel arrangement of a hame-tug having a loop provided with flanges to support a leather covering and a shouldered shank to prevent longitudinal displacement, and adapted to receive the leather strips, as hereinafter shown and described.

In the annexed drawings, the letter A designates my improved tug, consisting of a metallic plate, B, having the shank *a*, lateral shoulders *z*, and billet-box loop *b*, provided with flanges *c*, all made of one piece. The plate B aforesaid is inclosed in the usual manner between two strips of leather, *i i'*, fitting snugly between the edge flanges *c*, the former extending through the loop and forming a bearing for the buckle *d*, and the latter ex-

tending on its under side to the end of the buckle, forming a perforated pad, *p*, to prevent chafing of the animal's shoulder.

Between the leathers *i i'*, on each side, are interposing strips of leather *i''*, extending along the sides of the shank *a*, and abutting against the shoulder *z*, to prevent longitudinal displacement. The box-loop is sufficiently high to admit of the passage of the trace under it, and long enough to prevent the end of the trace from hanging down, and is provided with a leather flap, *n*, stitched to the sides of the strips *i i'*, and fitting snugly between the edge flanges *c* on said loop.

It will be obvious that the breaking down of the leather and the final separation thereof at the box-loop is effectually prevented by the plate B, which is not flexible, and that the box formed thereon is always in condition to receive the end of the trace under it. It is also obvious that the edge flanges of the loop will prevent the leather covering *n* from slipping off the same.

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

A hame-tug consisting of the loop *b*, having flanges *c* to support the leather covering *n*, the shank *a*, provided with shoulder *z*, to prevent longitudinal displacement, and adapted to receive the leather strips *i i' i''*, constructed and arranged to operate substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM H. BUSTIN.

Witnesses:

FRANK J. MASI,
WALTER C. MASI.