

(No Model.)

T. BRODERICK.

HAME TUG.

No. 272,641.

Patented Feb. 20, 1883.

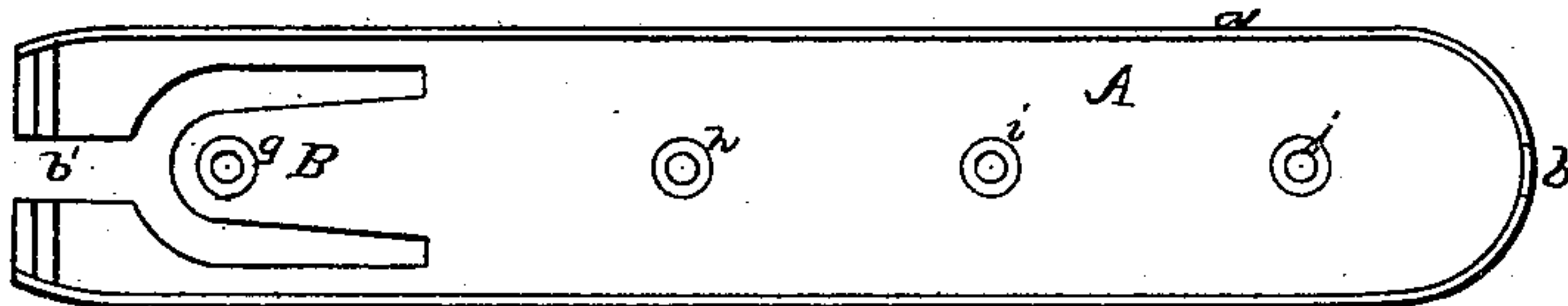


Fig. 1

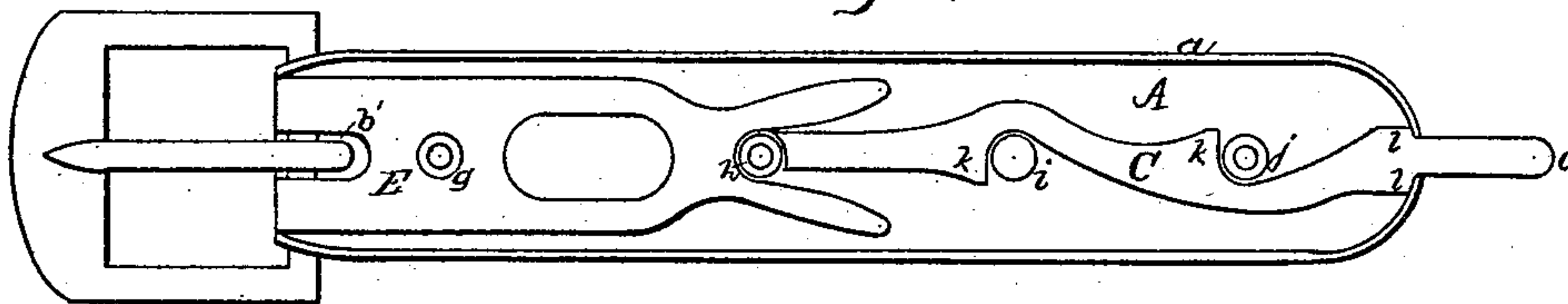


Fig. 2



Fig. 3

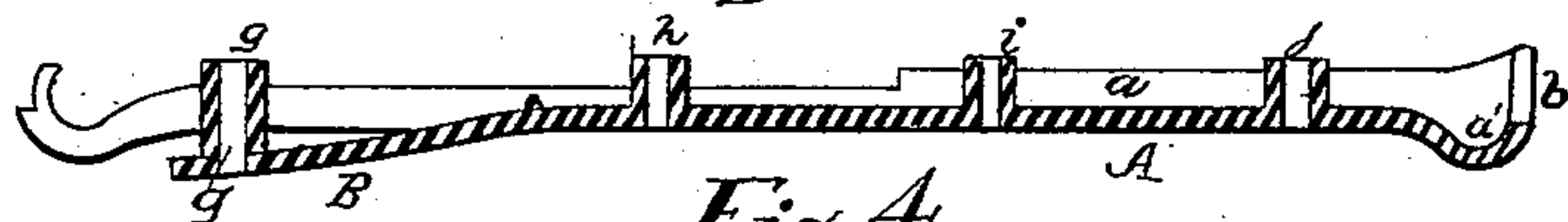


Fig. 4

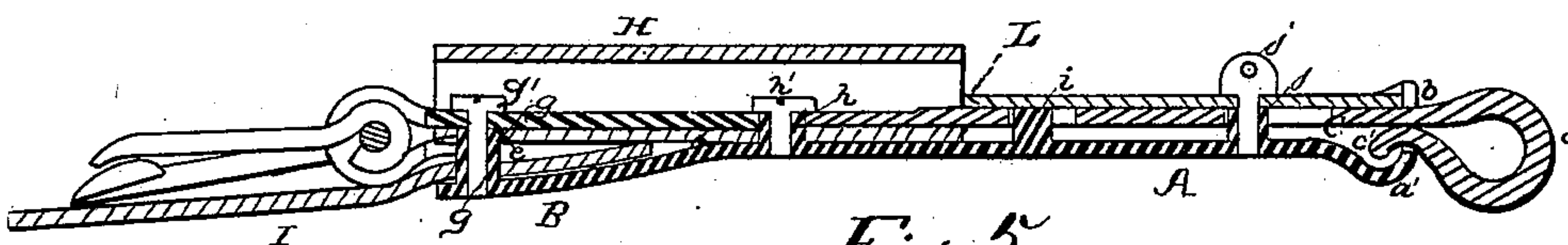


Fig. 5

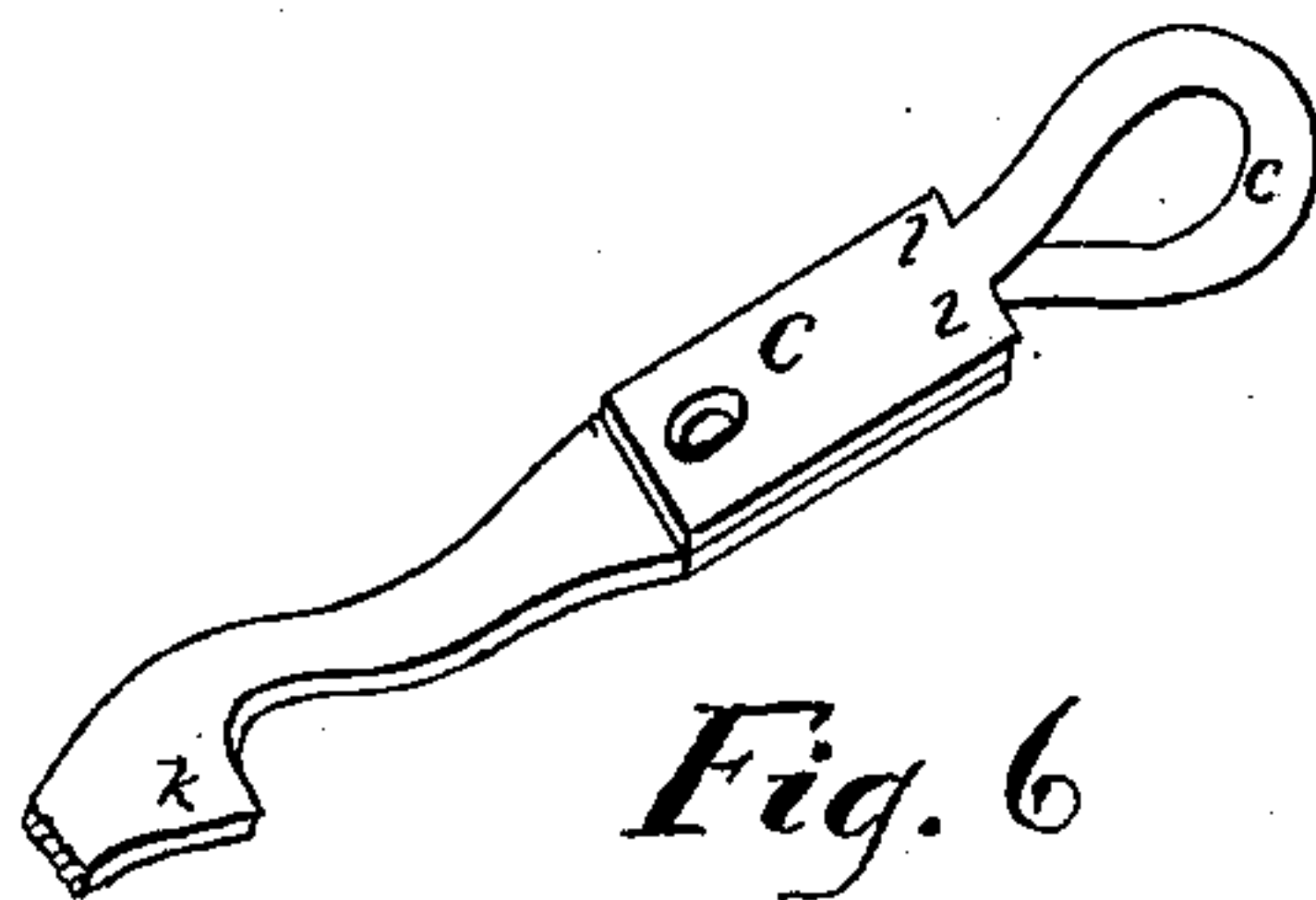


Fig. 6

Witnesses:-

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UNITED STATES PATENT OFFICE.

THOMAS BRODERICK, OF PITTSBURG, PENNSYLVANIA.

HAME-TUG.

SPECIFICATION forming part of Letters Patent No. 272,641, dated February 20, 1883.

Application filed September 21, 1882. (No model.)

To all whom it may concern:

Be it known that I, THOMAS BRODERICK, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain
5 new and useful Improvements in Hame-Tugs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and
10 use the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a plan view of the base-plate. Fig. 2 is a plan view of the base-plate, with
15 the buckle and clip in position. Fig. 3 is a detail view; Fig. 4, a sectional view of the base-plate; Fig. 5, a longitudinal section of the hame-tug complete, and Fig. 6 a modified form of clip.

20 My invention relates to hame-tugs; and it consists in a novel form of base-plate, and in certain improvements in the clip at the forward end of the tug and the manner of securing the saving-leather under the buckle.

25 Referring to the accompanying drawings, A represents a plate or casting which forms the body of the tug, and to which the clip and trace-buckle are attached. The plate A has a flange, *a*, at both sides and one end, where a
30 notch, *b*, is cut out of the flange to receive the clip. The other end of the plate A is turned up and forms the lower half of the seat for the trace-buckle, and a notch, *b'*, is cut out of said seat for the reception of the tongue of the
35 buckle. The body A is cut away just back of the buckle-seat, so as to leave a tongue, B, which is bent down slightly below the bottom of plate A and has a projection, *g*, near its end, threaded for the reception of a screw, *g'*.

40 E is a plate, having its end bent down and cut out so as to form the upper half of the buckle-seat. This plate E has a forked end that embraces a screw-threaded projection, *h*. The screw *g'* passes through the plate E, and
45 a lug, *e*, on said plate rests against the projection *g* and relieves the strain on screw *g'*.

H is the box-loop, having its edges turned in between plates A and E, and *h* is a pin on plate A, that penetrates the loop and holds it
50 in position.

I is the saving-leather, inserted between the

tongue B and the bottom of plate A, the projection *g* on tongue B passing through the leather I and serving to prevent its withdrawal after the fastening down of plate E.

55 C is the clip, curved around the projection *i* on one side and the projection *j* on the other. Shoulders *k k* on the shank engage with these projections, and shoulders *l l* engage with the flange at the end of plate A and serve to prevent the clip from drawing out of the plate. The hook *c* on the outer end of the clip is bent in toward the shank and then turned out from
60 said shank, so as to leave a downwardly-projecting end, *c'*, that rests in a depression, *a'*, 65 in the bottom of plate A, its end *c'* engaging with the edge of the depression, and also aids in sustaining the strain on the clip.

The projections *g h i j* have been described as being threaded for the reception of screws, 70 but they may be solid and have their heads riveted after the several parts of the tug are in position.

The manner of joining the parts together to form the completed tug is as follows: The
75 hook on the end of the clip is passed through the ring of the hame and the hook bent up until the end of the hook touches the shank. The clip is then laid in the base-plate A, with the end *c'* in the depression *a'*. A piece of finishing-leather, L, is placed on top of the clip
80 and the screw *j'* inserted in projection *j*. The buckle is then placed in its seat and the saving-leather inserted. The box-loop is placed on top of the base-plate, the plate E is placed
85 in position and the screws *g'* and *h'* inserted, binding the whole firmly together.

In Fig. 6 of the drawings I have shown a modified form of clip, wherein the end of the hook is flattened out and bent down along the
90 shank and has a hole for the passage of the screw *j'*.

Having described my invention, I claim—

1. In a hame-tug, the combination of a base-plate having an upturned flange, notched for
95 the reception of a clip, with a clip having a lug or shoulder on its shank which engages with the flange to prevent the clip from drawing out of the base-plate, substantially as described.

2. The combination of plate A, having depending tongue B and projection *g*, with the
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buckle and saving-leather I inserted between the tongue B and plate A, and held in position by a projection on said tongue, substantially as described.

- 5 3. The clip C, having the outwardly-projecting end *c'*, in combination with the plate A, having the depression *a'*, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THOMAS BRODERICK.

Witnesses:

T. J. PATTERSON,
PAUL L. SMITH.