

No. 844,817.

PATENTED FEB. 19, 1907.

F. T. LERCH.
HAME TUG FASTENER.
APPLICATION FILED APR. 18, 1906.

Fig. 1.

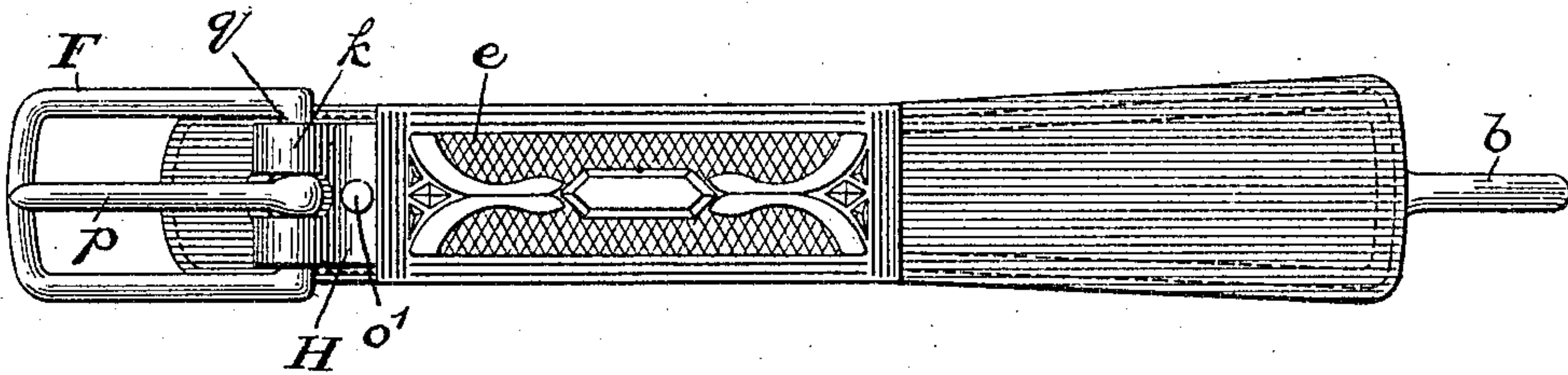


Fig. 2.

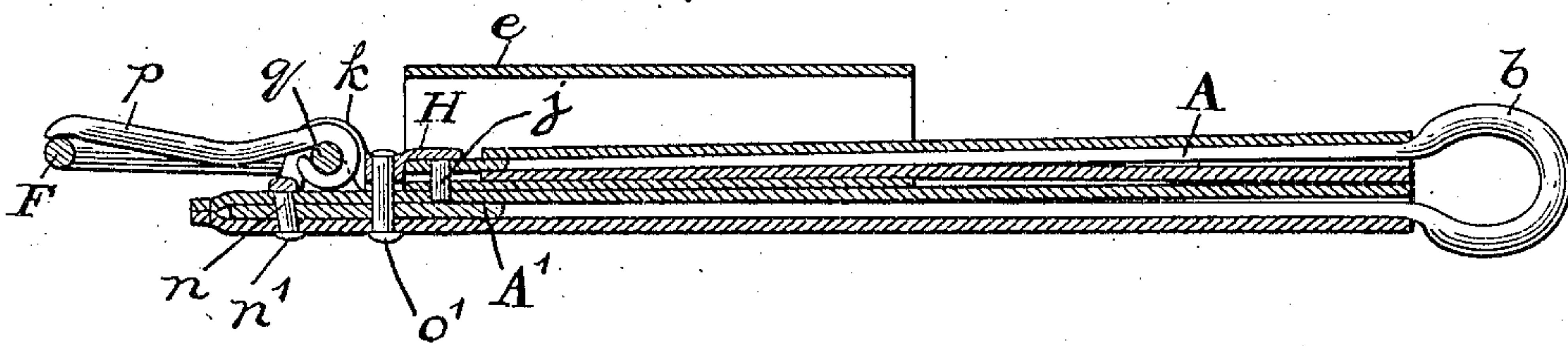


Fig. 3.

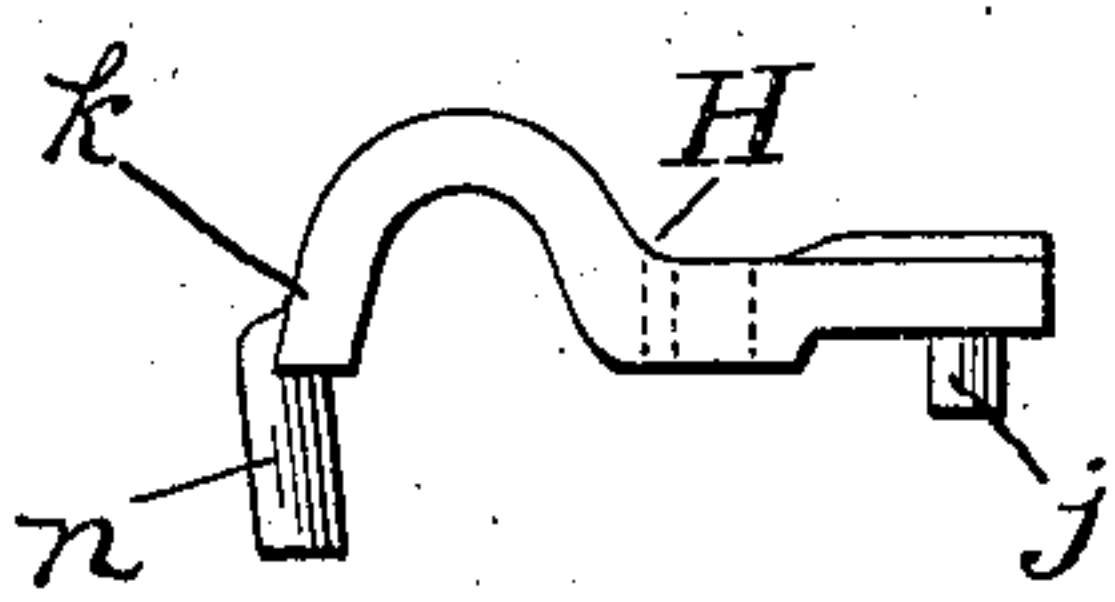


Fig. 4.

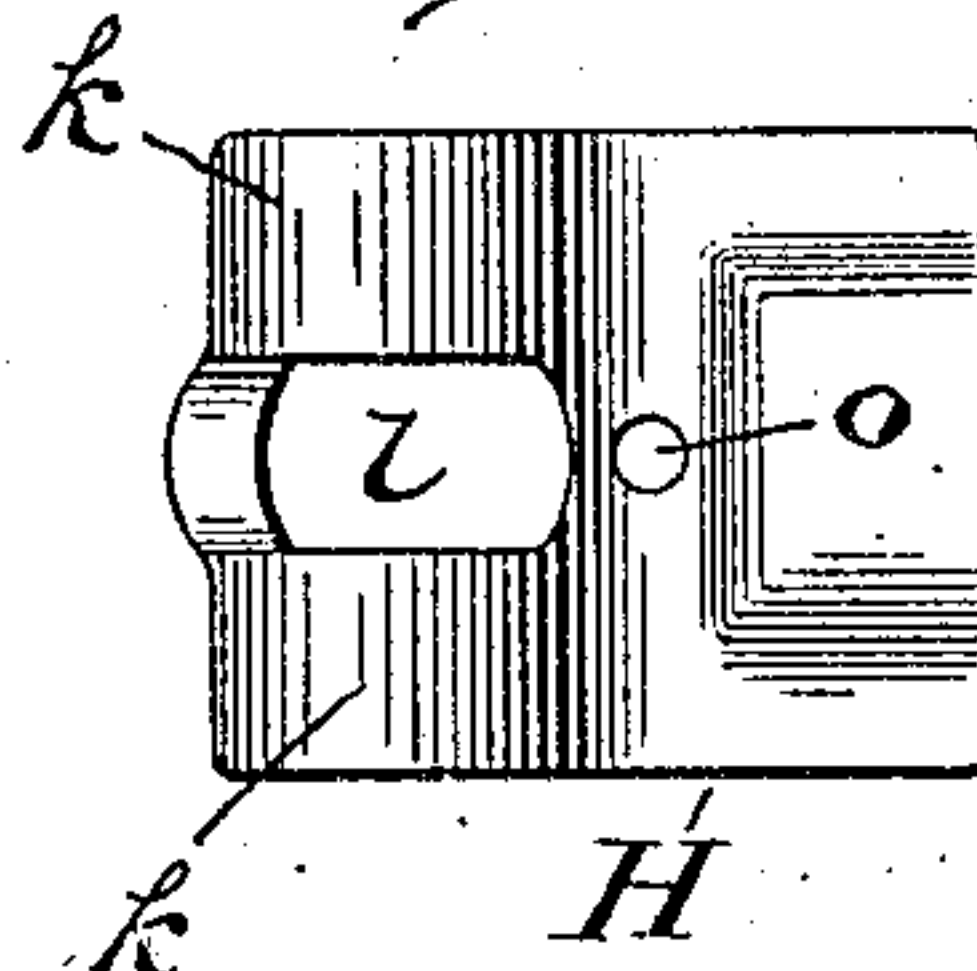


Fig. 5.

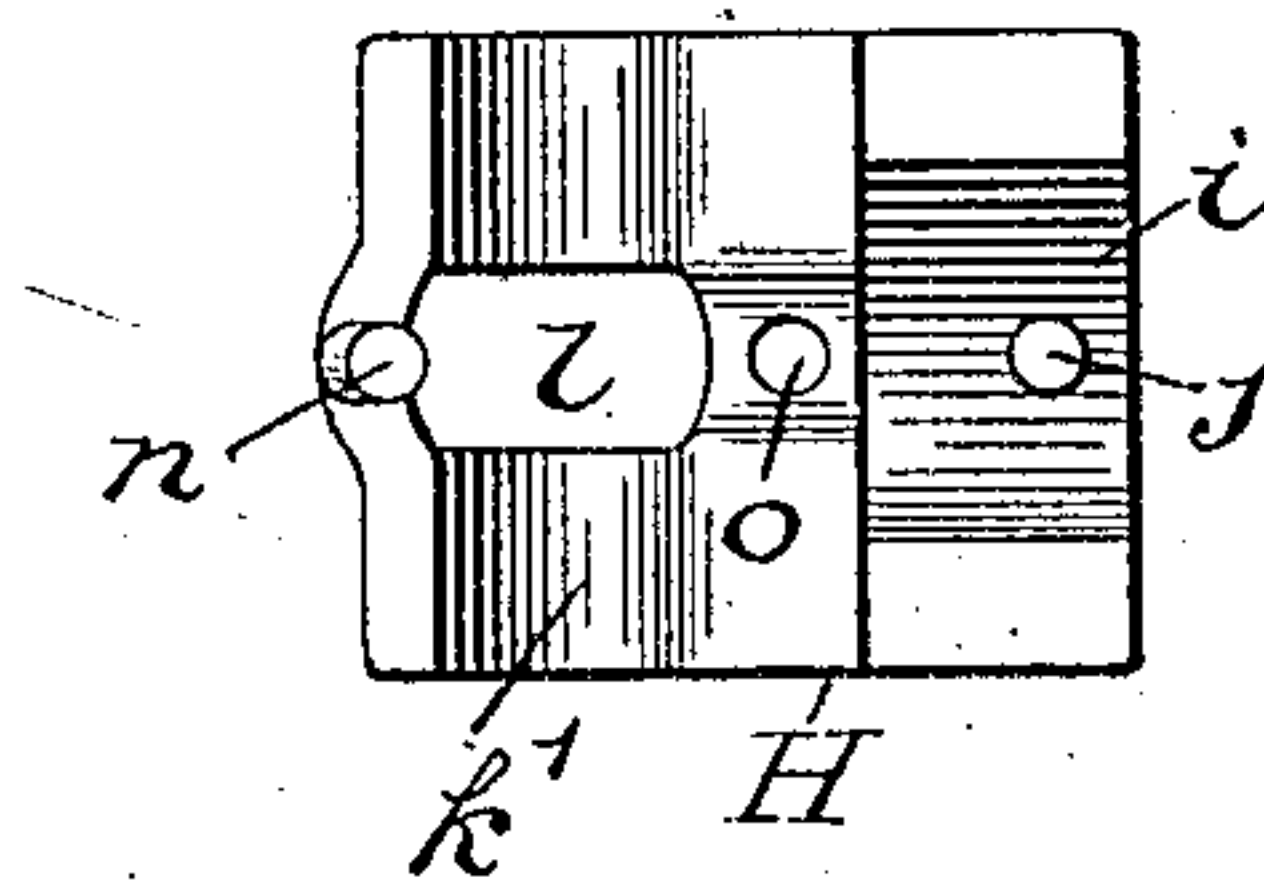
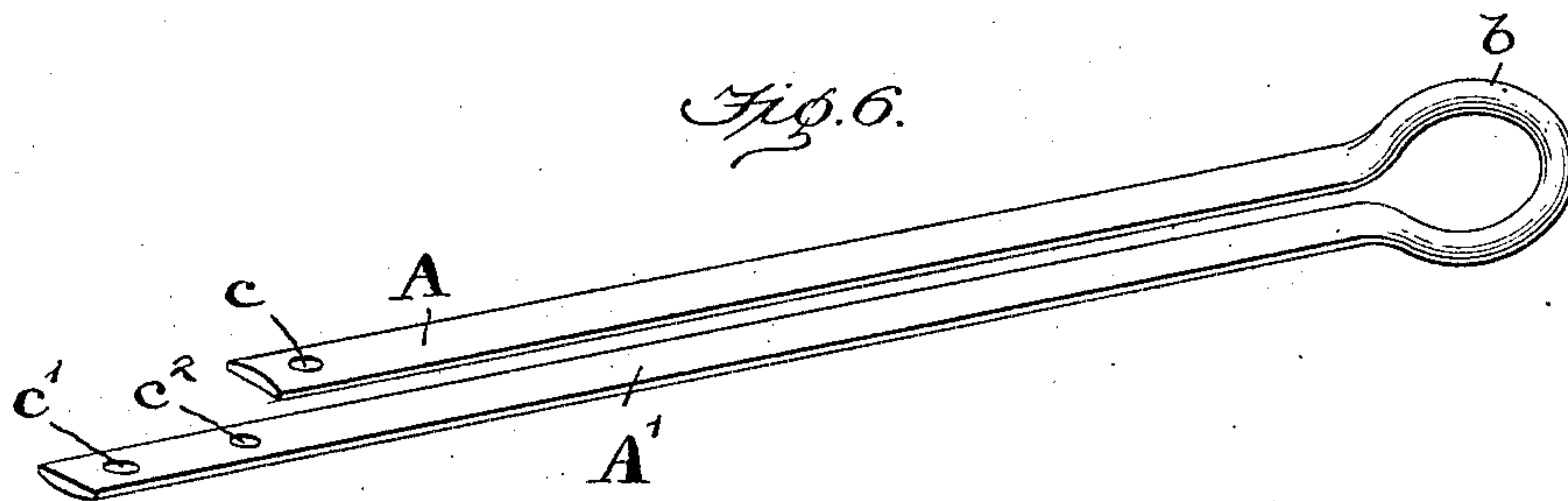


Fig. 6.



Witnesses
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HAME-TUG FASTENER.

No. 844,817.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed April 18, 1906. Serial No. 312,299.

To all whom it may concern:

Be it known that I, FRANK T. LERCH, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Hame-Tug Fasteners, of which the following is a specification.

This invention relates to an improved construction in hame-tugs.

Specifically, the invention has for its object to provide an improved coupling to connect the trace-buckle on the hame-tug with the draft-iron extending through the tug and which is linked to the hame.

The invention is an improvement on the similar device shown in Letters Patent No. 392,352, dated November 6, 1888, granted to William M. Lerch.

Referring to the drawings Figure 1 is a side view of the hame-tug. Fig. 2 is a longitudinal section of the hame-tug and shows in detail the means of attaching the buckle-coupling. Figs. 3, 4, and 5 show, respectively, on a larger scale, an edge view and two opposite side views of the buckle-coupling. Fig. 6 is a view of the draft-iron which extends through the tug.

The draft-iron comprises two bars $A A'$, united at one end by a loop b , which serves to couple or link with the hame. The two bars are of unequal length. The shorter one, A , has at its end one hole c , while the longer one has two holes $c' c^2$. The usual leather parts are employed to inclose the draft-iron and also the usual keeper or box loop e . The buckle F is for connection with a trace.

The part which is the subject of the present improvement is the coupling H , that connects the trace-buckle with the draft-iron. This coupling has at one end a cavity i on its inner side and a lug j in said cavity. At the other end on the outer side are two outward-curved or convexed parts k , which on the inner side are concave, as at k' . An oblong hole l separates the said two convex parts. At the same end is a lug n , which projects from the inner side. Thus this coupling H has at one end a lug j and at the other end a lug n and at the center or intermediate the two ends is a hole o for a rivet.

The parts are connected and fastened together as follows: The two bars of the draft-iron extend through the leather parts, and the tongue p of the trace-buckle takes through the oblong hole l of the coupling H , while the end bar q of the buckle-frame fits in the concavity k' of the said coupling—in other words, the two convex parts k of the coupling take position over the end bar q of the buckle-frame, while the lug n at the same end of the coupling takes in front of said end bar q . The cavity i of the coupling H rests on the end of the shorter bar A of the draft-iron, and the lug j in said cavity engages the hole c of said shorter bar. The lug n of the coupling, which has position in front of the end bar q of the buckle, passes through the leather case and engages the end hole c' in the longer bar of the draft-iron and also passes through the leather case at its inner side and is riveted at n' . This riveted lug n in front of the end bar q of the buckle is a new and useful improvement. A rivet o' extends through the center hole o in the coupling, through second hole c^2 in the longer bar, and also through both sides of the leather case. It will therefore be seen the improved buckle-coupling H is fastened to the two bars $A A'$ of the draft-iron by the lug j at one end, the lug n at the other end and the rivet o' between the said two lugs making three fastening devices, which hold more securely than any heretofore known.

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

A hame-tug comprising a draft-iron having double bars of unequal length—the shorter bar having at its end a hole, c , and the longer bar having at its end two holes, c', c^2 ; a trace-buckle having an end bar, q , and a tongue pivoted thereon; a coupling, H , having at one end a lug, j , which engages with said hole in the shorter bar and having at the other end two parts which are convex outwardly and concave inwardly and which take over the said end bar of the buckle and said two parts separated by an oblong hole through which the tongue of the trace-buckle takes, and having at the same end a lug, n , which

takes in front of the said end bar of the buckle and engages with the end hole, c' , in the longer bar and also provided with a hole intermediate the two ends of the coupling, and
5 a rivet, o' , extending through the said intermediate hole of the coupling and through the second hole, c^2 , in the longer bar.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK T. LERCH.

Witnesses:

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WM. B. WEED, Jr.