

(No Model.)

N. G. HAYDEN.  
Harness Saddle.

No. 236,582.

Patented Jan. 11, 1881.

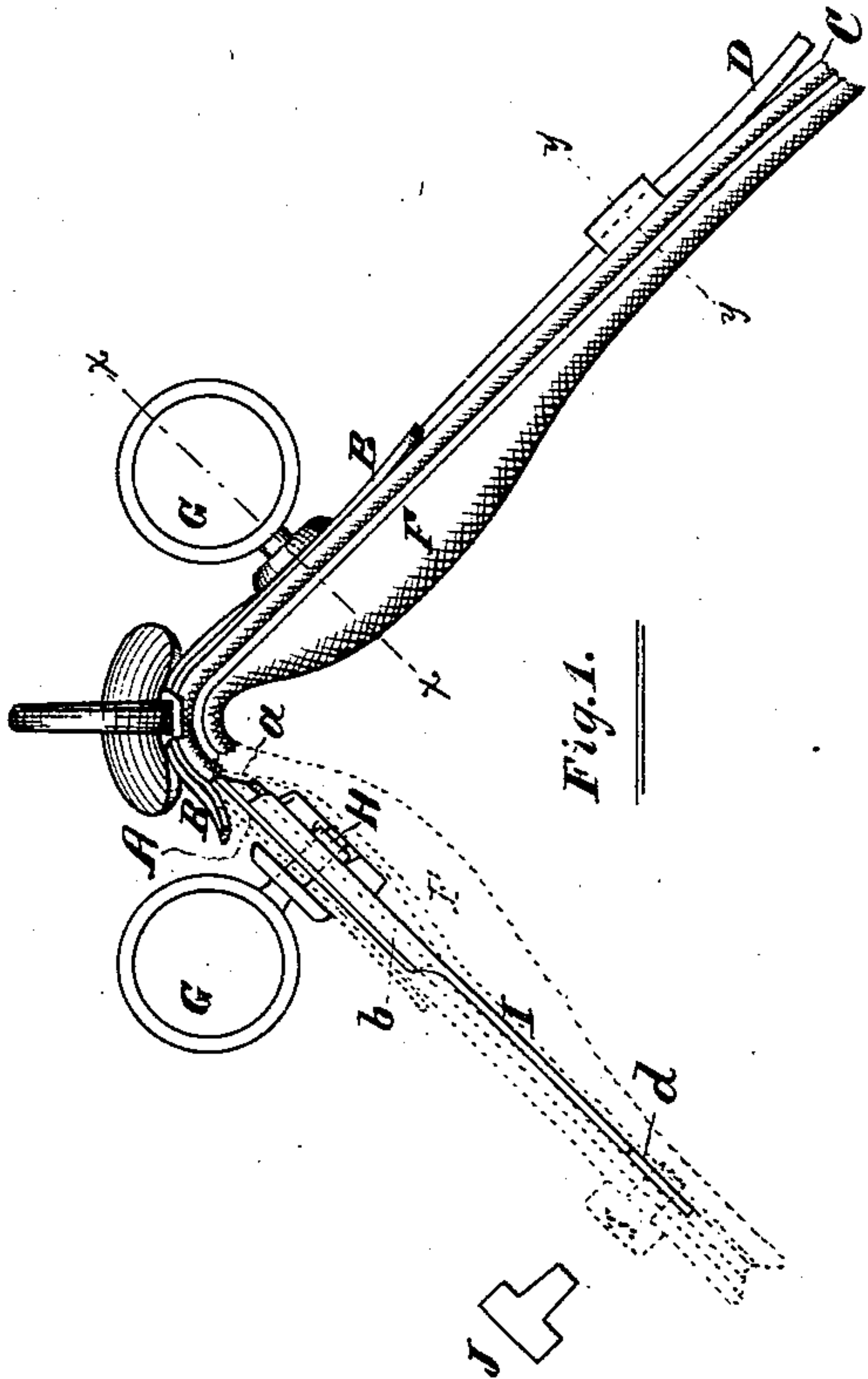


Fig. 1.

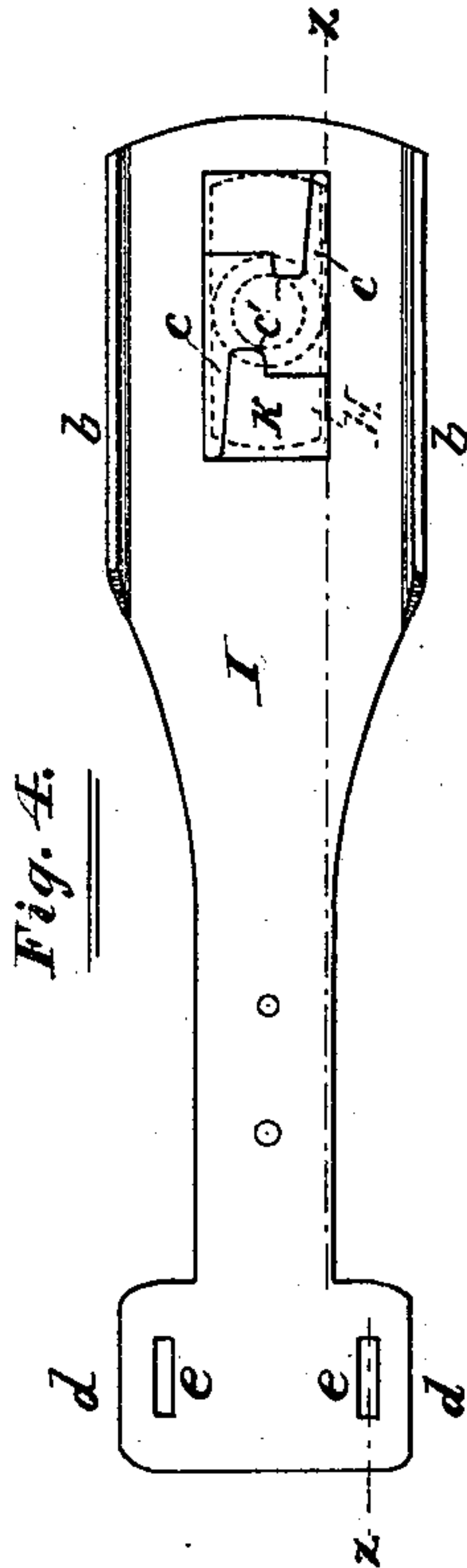


Fig. 4.

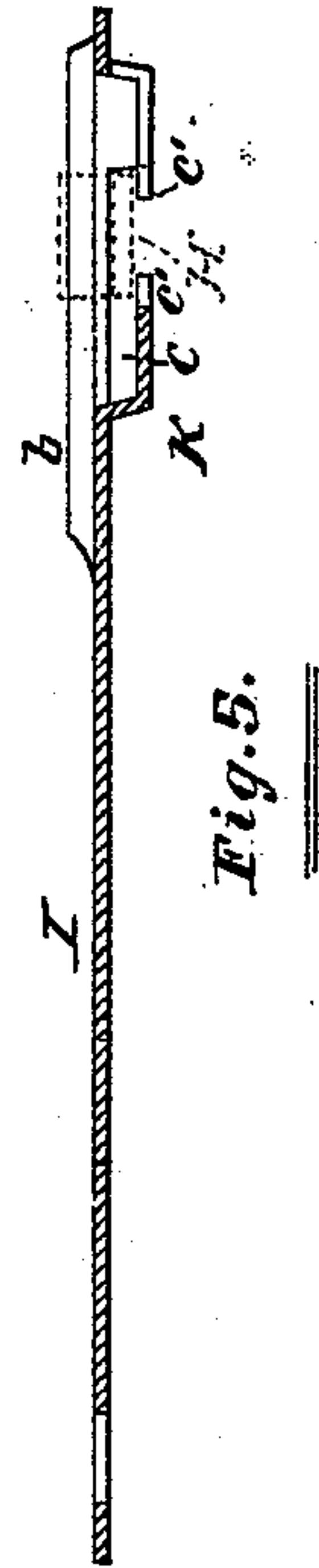


Fig. 5.

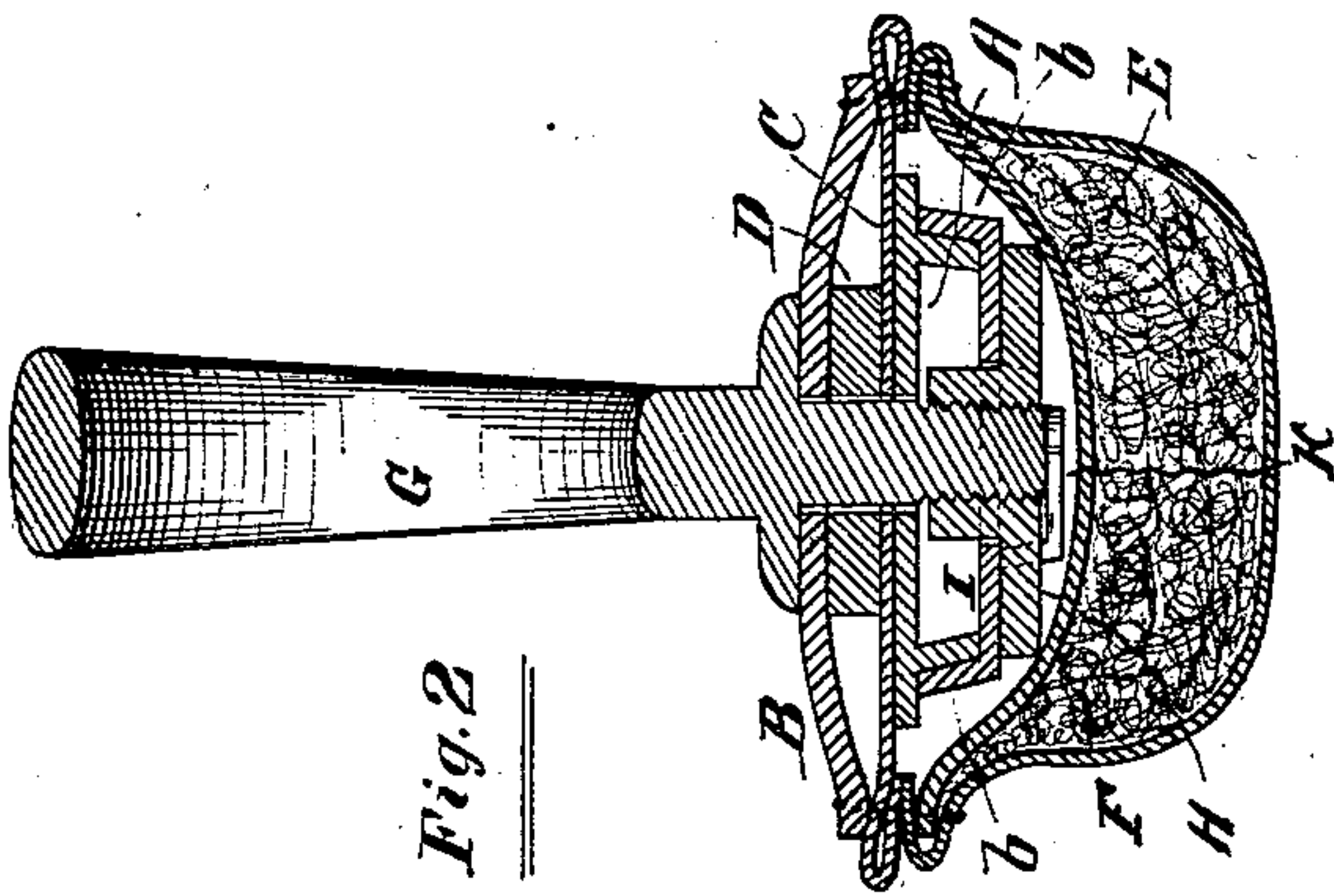


Fig. 2.

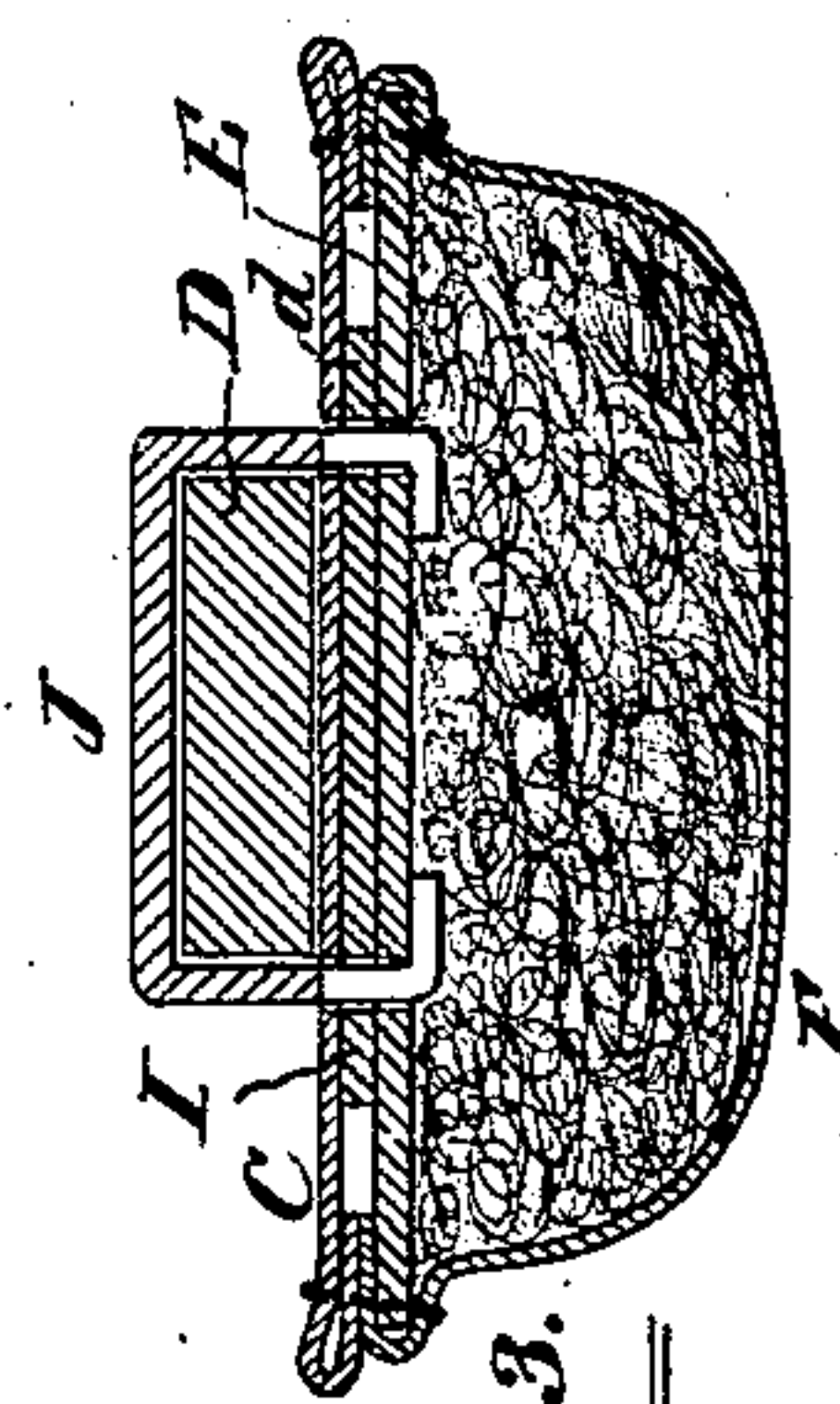


Fig. 3.

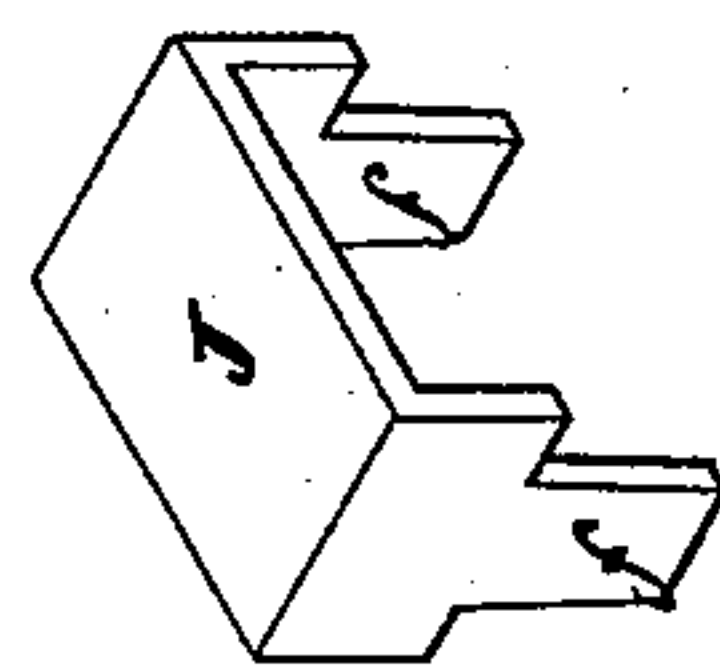


Fig. 6.

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# UNITED STATES PATENT OFFICE.

NEVILLE G. HAYDEN, OF COLUMBUS, OHIO.

## HARNESS-SADDLE.

SPECIFICATION forming part of Letters Patent No. 236,582, dated January 11, 1881.

Application filed May 24, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, NEVILLE G. HAYDEN, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Harness-Saddles, of which the following, in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a front view of a harness-saddle embodying my invention; Fig. 2, a section in the plane of the line  $x x$ ; Fig. 3, a section in the plane of the line  $y y$ ; Fig. 4, a top view of the under piece; Fig. 5, a section in the plane of the line  $z z$ , and Fig. 6 a perspective of the metallic loop.

Like letters of reference indicate like parts.

The object of my invention is to provide improved means for connecting the parts together firmly and with facility; and to that end my invention consists in certain novel features of construction, substantially as hereinafter set forth, and relating, principally, to the metallic under pieces and loops which I employ in connection with the tree and certain other parts of the saddle.

A represents the tree, and  $a a$  are ribs or flanges, usually made on the under side of the tree for forming a recess for the terret-nuts, as well as to strengthen or stiffen the tree. B B are the flaps, C C the skirts, D D the back-bands, E E the stiffening, F F the pads, G G the terrets, and H H the terret-nuts, all of which parts may be made and arranged as usual or substantially as shown.

I is a metallic under piece, and J a removable metallic loop.  $b b$  are upturned edges at or along the sides of the upper part of the piece I. The edges or flanges  $b b$  should, by preference, flare or spread outwardly slightly, so as to be a little farther apart at their tops than at their bottoms or bases, to receive the ribs or flanges  $a a$ , which are inclined in the opposite direction, as is clearly indicated in Fig. 2, it being understood that the upper part of the piece I is sufficiently wide for that purpose.

K is an elongated socket or depression arranged longitudinally in the upper part of the piece I. In form and size the depression K is such as to receive a terret-nut. This nut-receiving depression is open centrally sufficiently to allow the lower end of the terret-bolt to pass

through it, and it is also open at the sides sufficiently, as shown at  $c c$ , to admit of the terret-nut being turned one-quarter of a turn around therein, so that the ends of the nuts will then extend underneath the main part or body of the piece I, as shown in Fig. 2 and indicated by the dotted or broken lines in Fig. 5. To prevent the nut from being turned more than a quarter-turn, one side opening  $c$  begins at one end of the nut-receiver and the other opening  $c$  at the other end, and both the said openings extend across the transversely-arranged nut, but no farther, thus making the solid or unopened portions of the sides of the nut-receiving depression serve as stops to prevent the further turning of the nut. To prevent the transversely-arranged nut from falling through its receiving-depression into the pad, the bottom of the depression K should be extended sufficiently for that purpose, as shown at  $c' c'$ .  $d d$  are lateral extensions on the lower end of the piece I, which piece is contracted, as shown, between the said extensions and the flanges  $b b$ , and  $e e$  are slots in the extensions  $d d$ .

The loop J has T-shaped ends extending downward therefrom, or, in other words, has thereon the dowels  $f f$ , adapted to enter the slots  $e e$ . The dowels  $f f$  are flexible, so that they may be bent or clinched in the manner indicated in Fig. 2.

To apply the parts together the upper end of the piece I is arranged on the under face or side of the tree, so that the flanges  $b b$  will overlap the ribs or flanges  $a a$ , the terret-nut being first arranged in the depression or receiver K. The dowels  $f f$  are then passed down through the skirt, through the slots  $e e$ , and through the stiffening, and clinched or turned over tightly upon the underside or face of the stiffening. The back-band passes through the loop J, and the shoulders above the dowels  $f f$  rest upon the skirt. If the terrets be applied, their bolts will find the nuts H H, and by turning the terrets in the proper direction their bolts will be screwed into the nuts, and the act of screwing them in will turn the nuts transversely, as described, and a continued turning of the terrets will draw all the parts firmly together at the upper part of the saddle, while the lower parts will be firmly



clamped or held together by means of the loops.

It will also be perceived that the terrets may be removed and replaced at any time without either separating or removing any of the other parts.

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

10 1. In a harness-saddle, the under piece, I, having therein the depression or nut-receiving socket K, open centrally in the bottom to receive the terret-bolt, and having in its sides the openings *c c*, to allow the nut to be turned a  
15 quarter-turn, substantially as and for the purposes specified.

2. In a harness-saddle, the under piece, I, having therein the depression or nut-receiving socket K, made centrally in the bottom,  
20 and containing the side slots or openings, *c c*, and the projections *c' c'*, all arranged substantially as shown and described with relation to each other, for the purposes set forth.

3. In a harness-saddle, the under piece, I,

having thereon the upturned edges or flanges 25 *b b*, and containing the centrally-open socket K, having therein the side openings, *c c*, substantially as and for the purposes specified.

4. The combination, in a harness-saddle, of the under piece, I, having therein, near its 30 lower end, the longitudinal slots *e e*, the flexible metallic loop J, bent rectangularly near its ends, and having thereon the downwardly-extending dowels *f f*, adapted to enter the slots *e e*, the said loop being arranged transversely 35 with relation to the said under piece, the back-band D, passing through the said loop, the skirt C, and stiffening E, arranged respectively above and below the said under piece, and the skirt, under piece, and stiffening all being 40 pierced by the said dowels and clinched together thereby, thus connecting all the said parts firmly together, substantially as and for the purposes specified.

NEVILLE G. HAYDEN.

Witnesses:

W. H. HAYDEN,

W. H. HAYDEN, Jr.