

H. W. & C. F. WHITNEY.
HORSE-COLLAR.

No. 189,163.

Patented April 3, 1877.

Fig. 1.

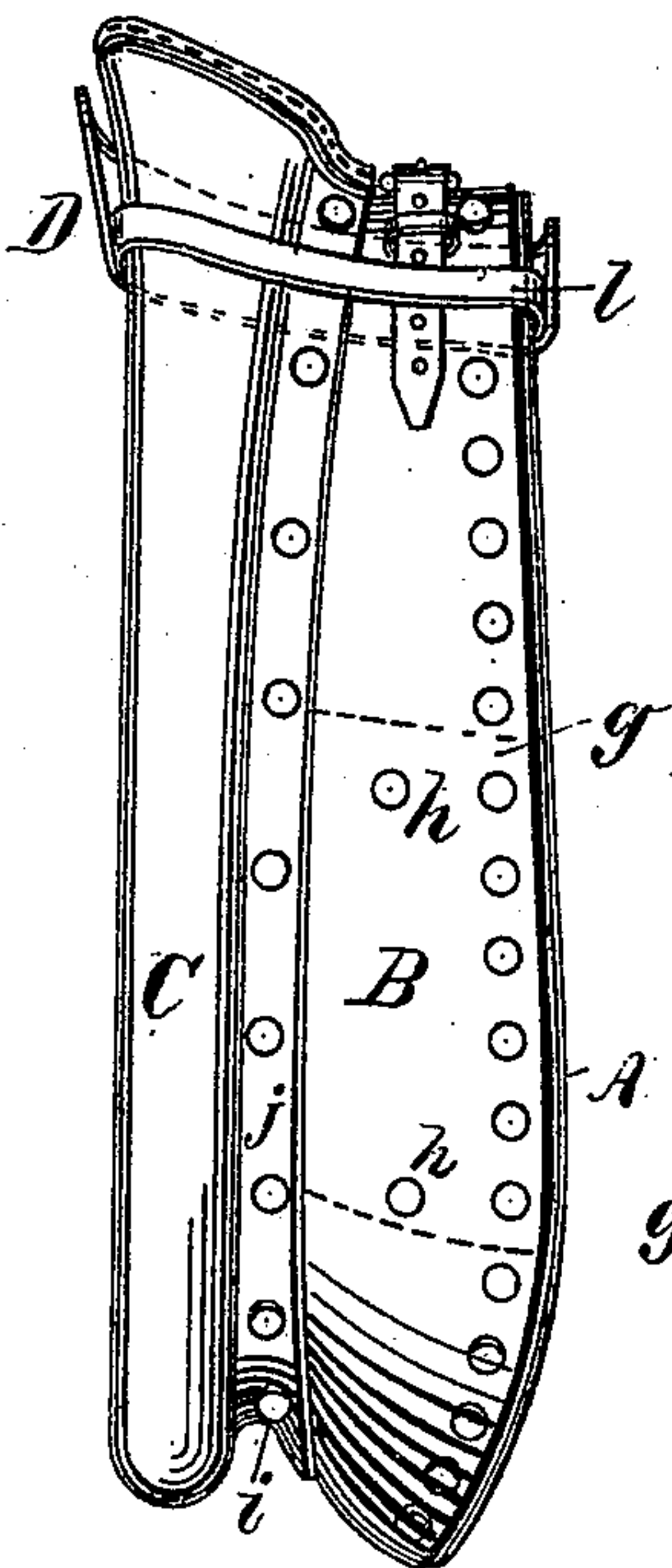


Fig. 2.

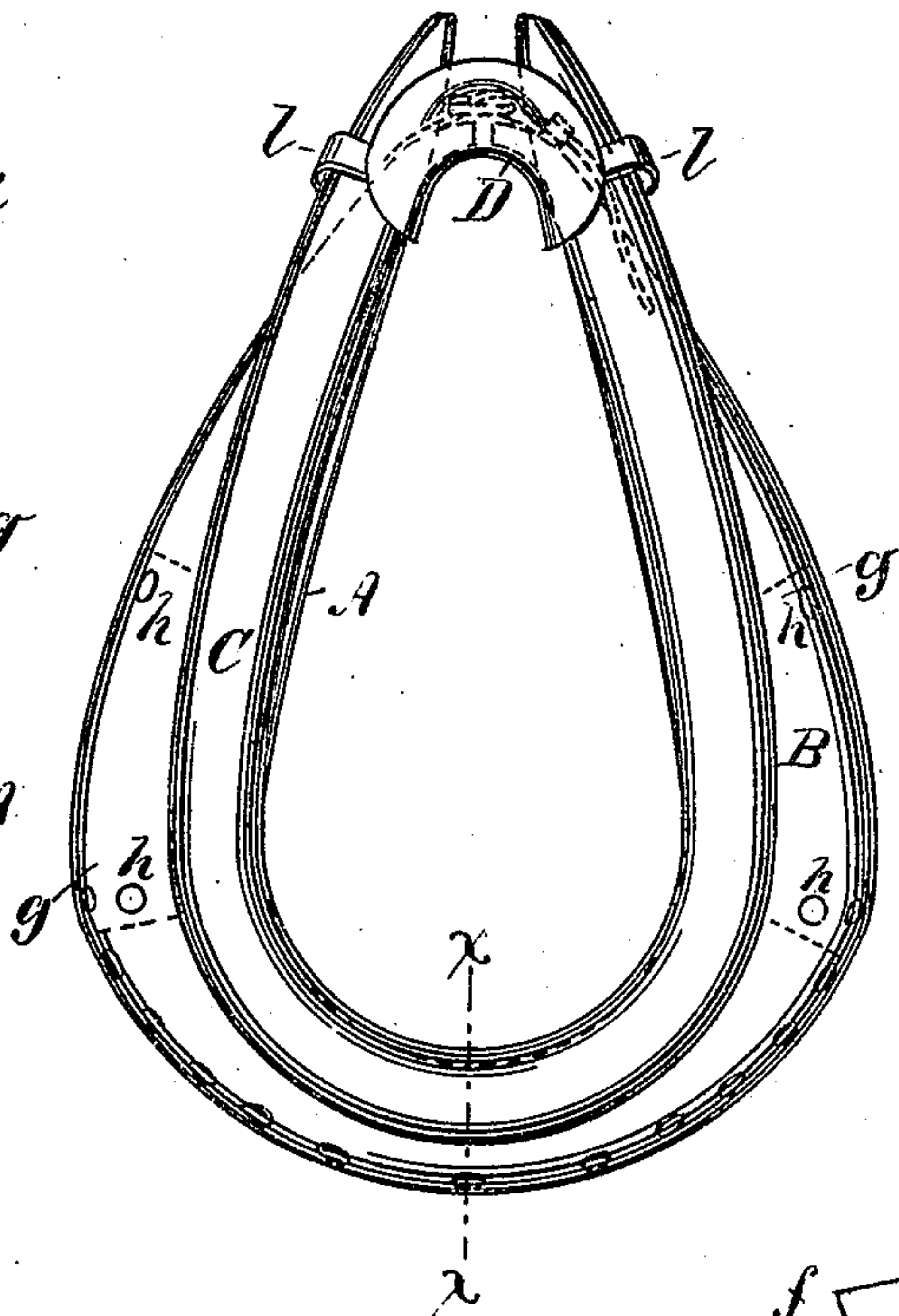


Fig. 4.

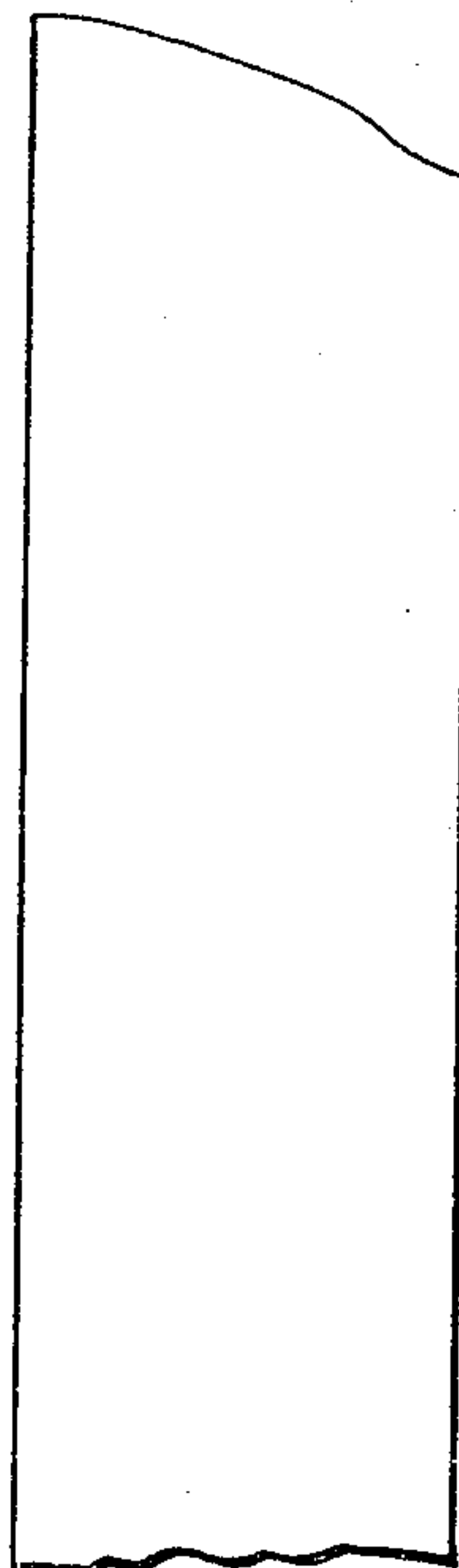


Fig. 5.

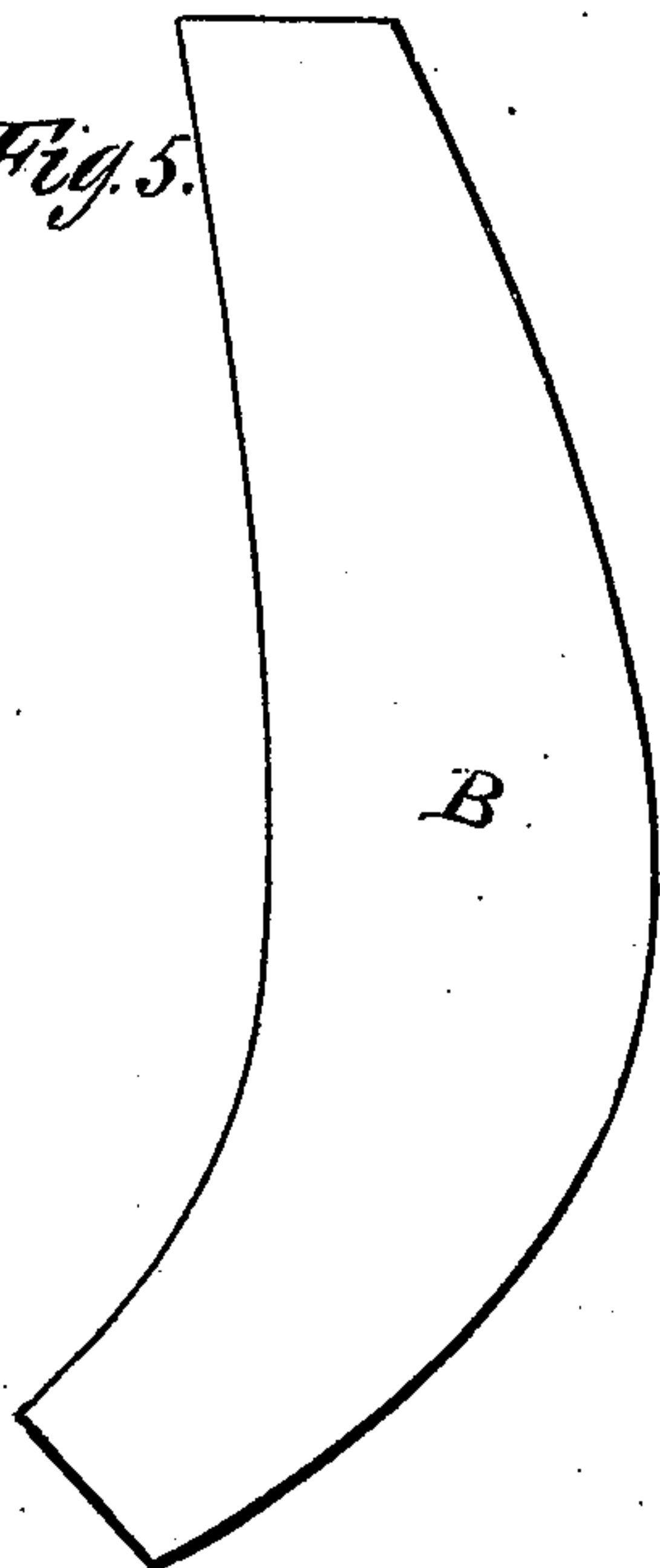


Fig. 3.

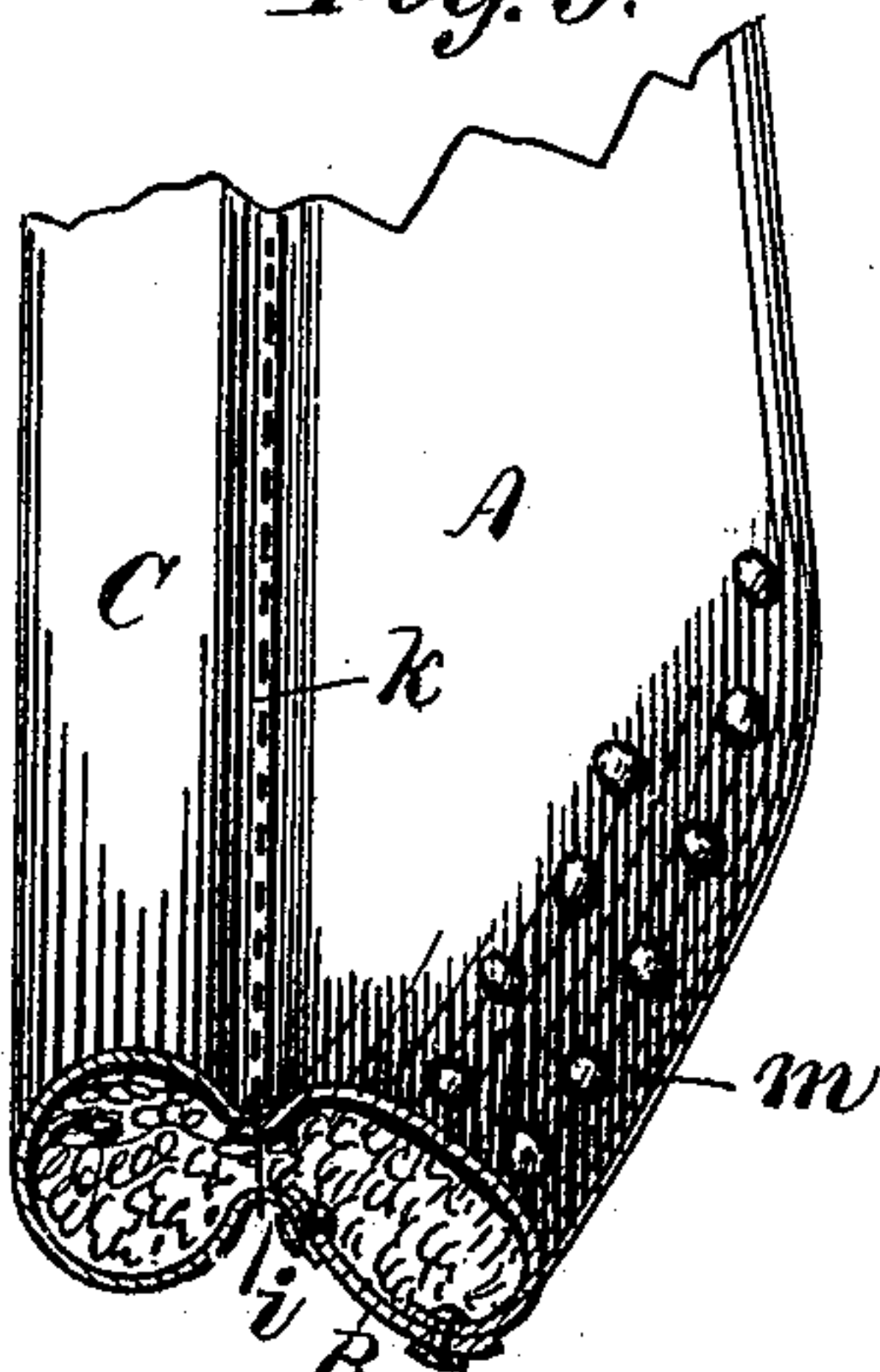


Fig. 6.

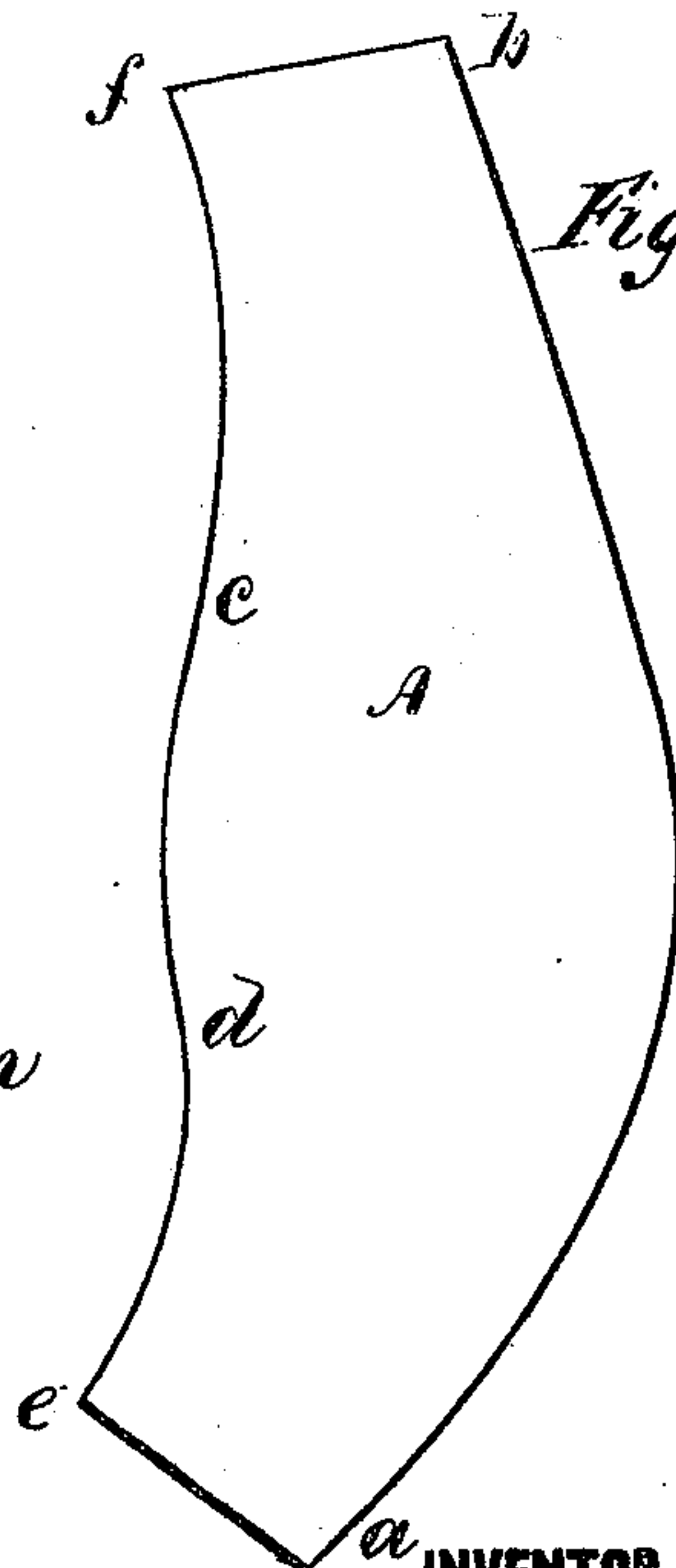
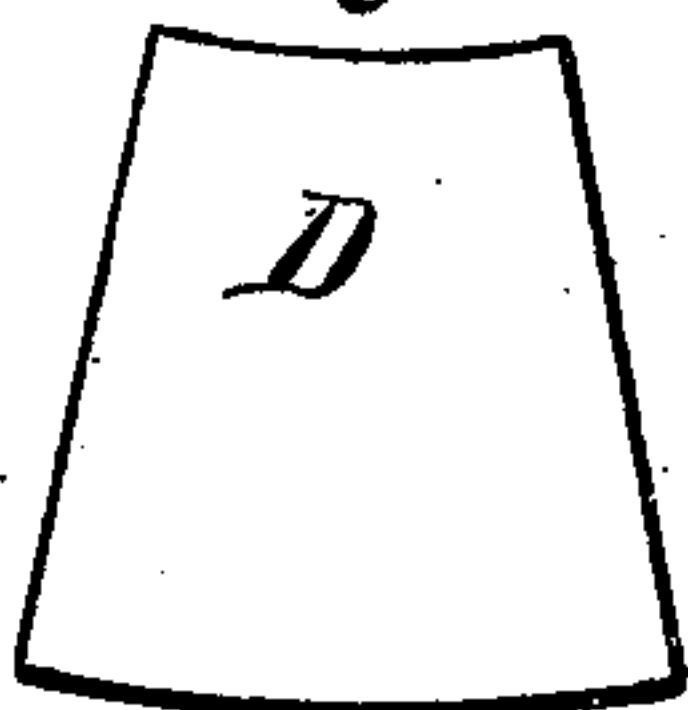


Fig. 7.



WITNESSES:

E. Wolff.
J. H. Scarborough.

INVENTOR S
H. W. Whitney.
C. F. Whitney.
BY

ATTORNEYS.

UNITED STATES PATENT OFFICE

HEZEKIAH W. WHITNEY AND CHARLES F. WHITNEY, OF OSWEGO, N. Y.

IMPROVEMENT IN HORSE-COLLARS.

Specification forming part of Letters Patent No. 189,163, dated April 3, 1877; application filed February 3, 1877.

To all whom it may concern:

Be it known that we, HEZEKIAH W. WHITNEY, of Oswego, in the county of Oswego and State of New York, and CHARLES F. WHITNEY, of the same place, have invented a new and Improved Horse-Collar, of which the following is a specification:

Figure 1 is a side elevation of our improved horse-collar. Fig. 2 is a front elevation of the same. Fig. 3 is a portion of one side of the collar in section, on line *xx* in Fig. 2. Figs. 4, 5, 6, and 7 represent the parts of which the collar is formed.

Similar letters of reference indicate corresponding parts.

Our invention consists in a horse-collar made from parts of peculiar form, secured together by means of rivets and stitching, so as to form a durable and comfortable collar.

In the drawing, A is the face of the pad, or part of the collar that comes into contact with the horse's breast, which is cut in the form shown in Fig. 6, having convex outer edge *a b* and the curved inner edge *f e*, having a central convex portion, *c d*, and the concave portions *d e* and *e f*. The ends of the part A are cut diagonally to fit the other portions of the collar to which it is attached. B is the part forming the external or convex portion of the pad, which is attached to the part A by means of rivets, as clearly shown in Figs. 1 and 3. The edges of the part B overlap the part A. A wear-piece, *g*, (shown in dotted lines in Figs. 1 and 2,) is secured to the inner surface of the part B by the seam-rivets, and

by the rivets *h h*. C is a roll, formed of a piece of leather having parallel edges, as shown in Fig. 4. One of the edges of the part forming the roll C is attached to the edge of the part B by rivets, as shown at *i* in Figs. 1 and 3, the part C overlapping the part B. The inner edge of the part C overlaps the part A to which it is secured by stitching. The threads of the stitching extend through the opposite edge of the part C, and draw the inner and outer surfaces of the collar together, forming a crease, *j*, for receiving the hames, and the crease *k*, for relieving the pressure on the breast of the horse and preventing galling. A flat surface is formed at *m* for relieving the horse's breast from pressure. This surface is quilted to prevent it from becoming convex. D is the neck-piece, that is retained in place by straps *l l*. The upper ends of the sides of the collar are provided with a strap and buckle for holding them together.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of face A, having inner convexity *c d* and concavities *d e e f*, the part B, overlapping face A, and the roll C, having parallel edges, one stitched to part A and the other riveted to part B, as and for the purpose specified.

HEZEKIAH WELLS WHITNEY.
CHARLES FRED. WHITNEY.

Witnesses:

J. MACMURRAY,
W. H. BAKER.