

(No Model.)

F. R. LEWIS.

COLLAR.

No. 293,753.

Patented Feb. 19, 1884.

Fig 1

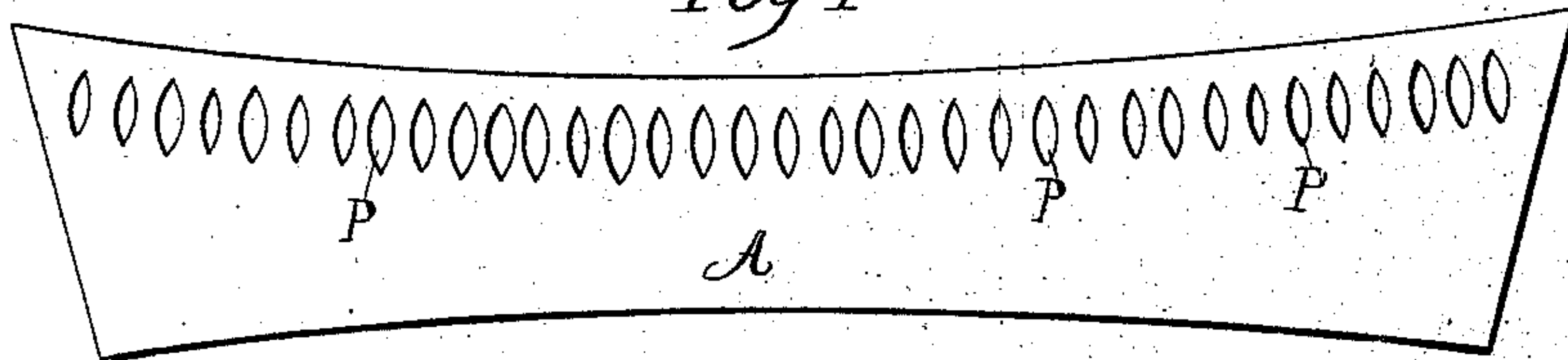


Fig 2.

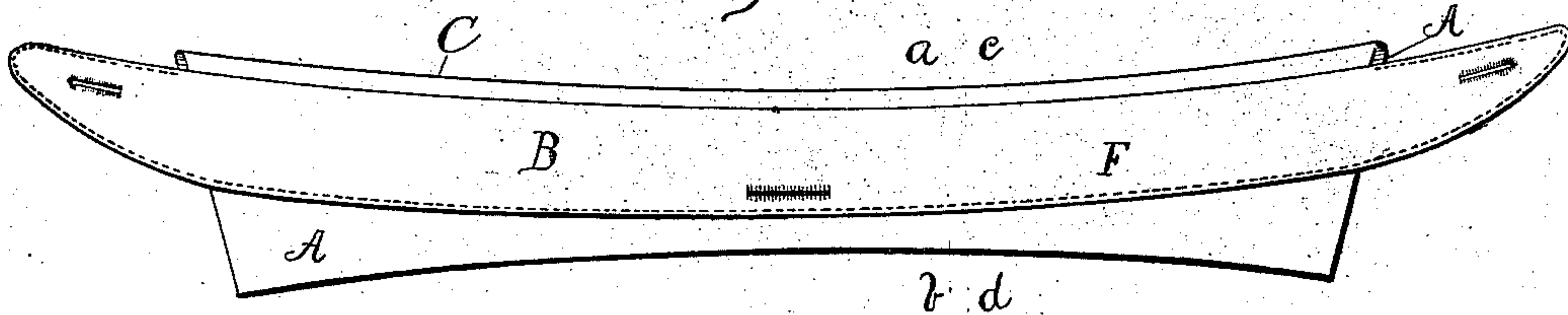


Fig 3.

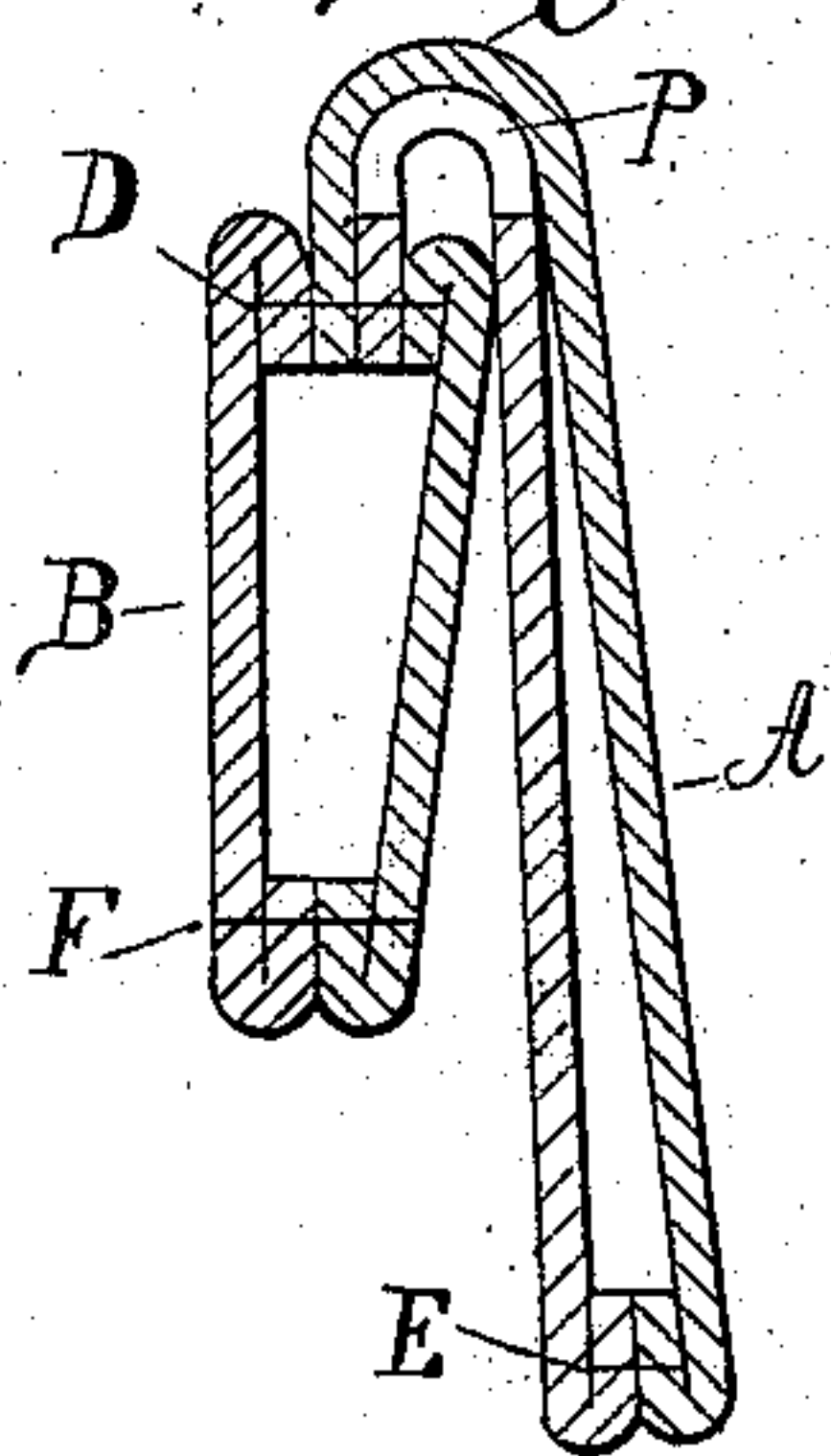
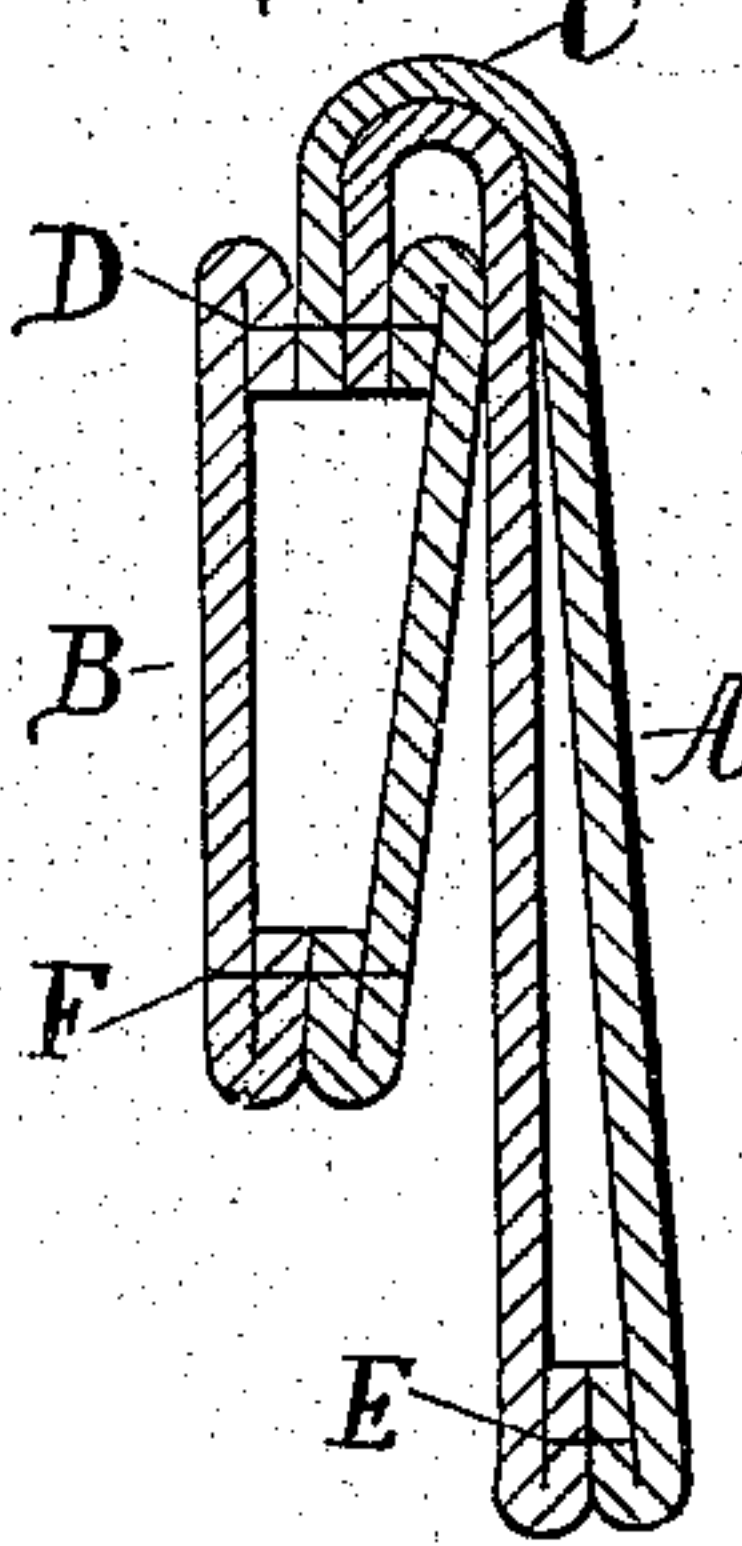


Fig 4.



Witnesses.

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FREDRIQUE R. LEWIS, OF TROY, NEW YORK, ASSIGNOR TO WOOD,
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COLLAR.

SPECIFICATION forming part of Letters Patent No. 293,753, dated February 19, 1884.

Application filed June 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, FREDRIQUE R. LEWIS, a citizen of the United States, and a resident of the city of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Collars; and I do hereby declare that the following is a full, clear, and exact description of the invention, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in the several figures therein.

My invention relates to improvements in collars, and applies to that class of collars known as "turn-down" collars; and it consists in puncturing one or more of the plies of fabric of which the collar is made with a row of small apertures, extending along that portion of the ply or plies which is bent in turning down the collar.

The objects of my invention are, first, to make the collar more pliable at the part to be bent, to prevent injury to the goods; second, to prevent the exposure of a loose edge, which is likely to ravel in laundering.

Figure 1 is a plan view of one or more plies forming the body or turn-down portion of the collar, and containing the perforations P. Fig. 2 is a plan view of the collar as a whole, showing the body part bent down alongside of the band part. Fig. 3 is a vertical section taken at broken line *a b* in Fig. 2 and through one of the perforations P. Fig. 4 is a vertical section taken at the broken line *c d* in Fig. 2 and between two of the perforations P.

A represents the body or turn-down portion of the collar, and B the band part.

C represents the bend formed in turning the body part down alongside of the band.

Fig. 4 shows the usual manner of making turn-down collars, the parts being exaggerated in size for convenience of illustration. I have shown only two plies; but it is not uncommon to make collars of three and four plies. I prefer to puncture only the inner plies; but any desired number may be punctured.

In the process of laundering collars the body and band parts are laid out flat, so as to both occupy the same horizontal plane, in which position they are ironed, and afterward the body part is turned down alongside of the band part, as shown in Fig. 2. Experience shows that three and four ply collars thus treated will crack and tear at the bent portion C, on account of the stiffness produced by laundering so many plies together. My improved method of cutting away portions of the plies by puncturing them along the line of the bend, as shown, entirely obviates the difficulty above mentioned.

I am aware that it has been sought to overcome the difficulty by making one or more of the inner plies narrower than the others, so as to present a lesser number of plies at the bent portion of the collar; but this method of construction is objectionable, in that it leaves a loose or raw edge of the narrow ply or plies unsecured between the other plies, and when the goods are laundered this edge ravel and rolls up and presents an uneven surface, which gives the face of the collar an untidy appearance after the same has been laundered. My method of puncturing the inner ply or plies enables me to secure the punctured ply firmly on each side by rows of stitching D and E, and the edges of the apertures formed in puncturing the plies are so short there is no opportunity presented for raveling or rolling up and presenting uneven surfaces.

The apertures may be of any convenient size or shape.

What I claim as new, and desire to secure by Letters Patent, is—

A turn-down collar having one or more plies of the body part punctured to form a row of small apertures longitudinally of the collars, substantially as described, and for the purposes set forth.

In testimony whereof I have hereunto set my hand this 4th day of June, 1883.

FREDRIQUE R. LEWIS.

Witnesses:

GEO. A. MOSHER,
W. H. HOLLISTER, Jr.