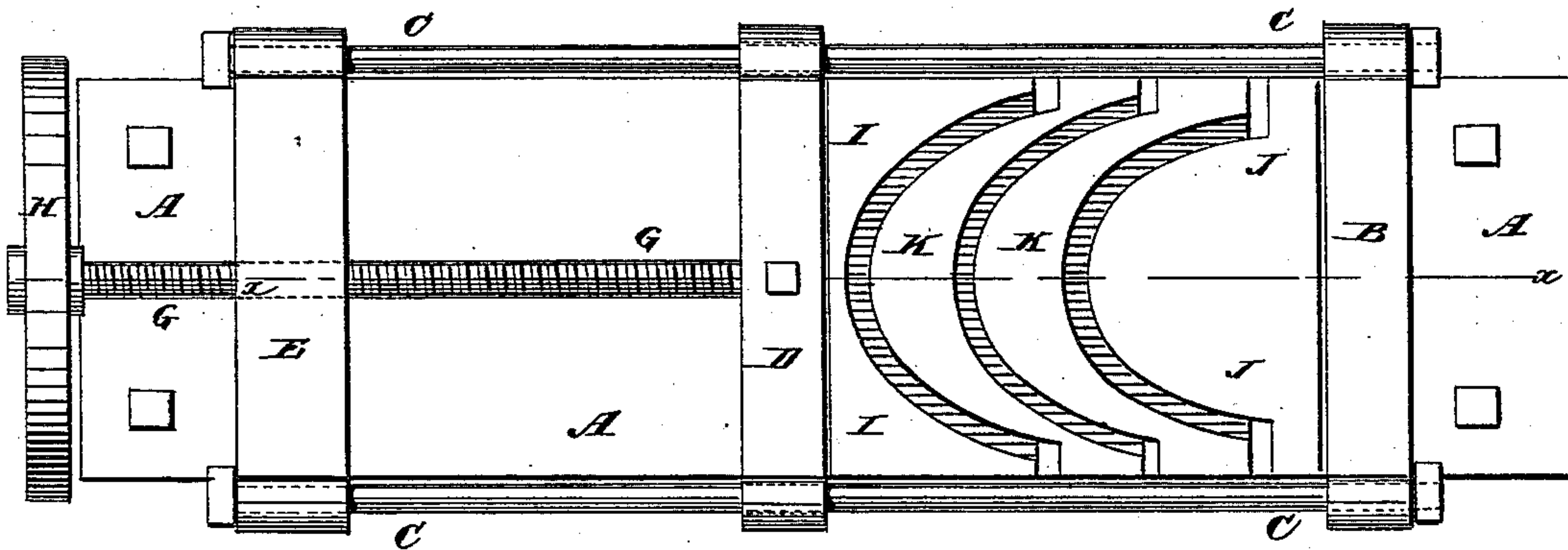


G. CHAMBERLIN.  
Collar-Cap Press.

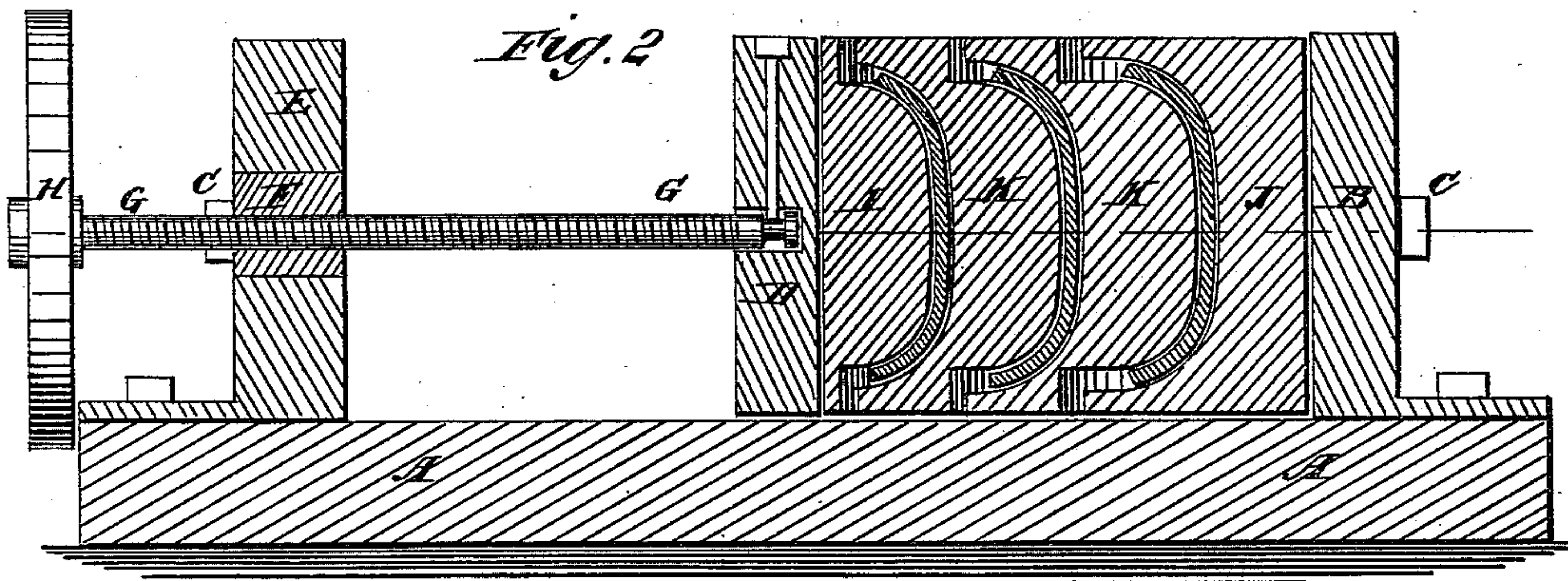
No. 213,170

Patented Mar. 11, 1879.

*Fig. 1.*



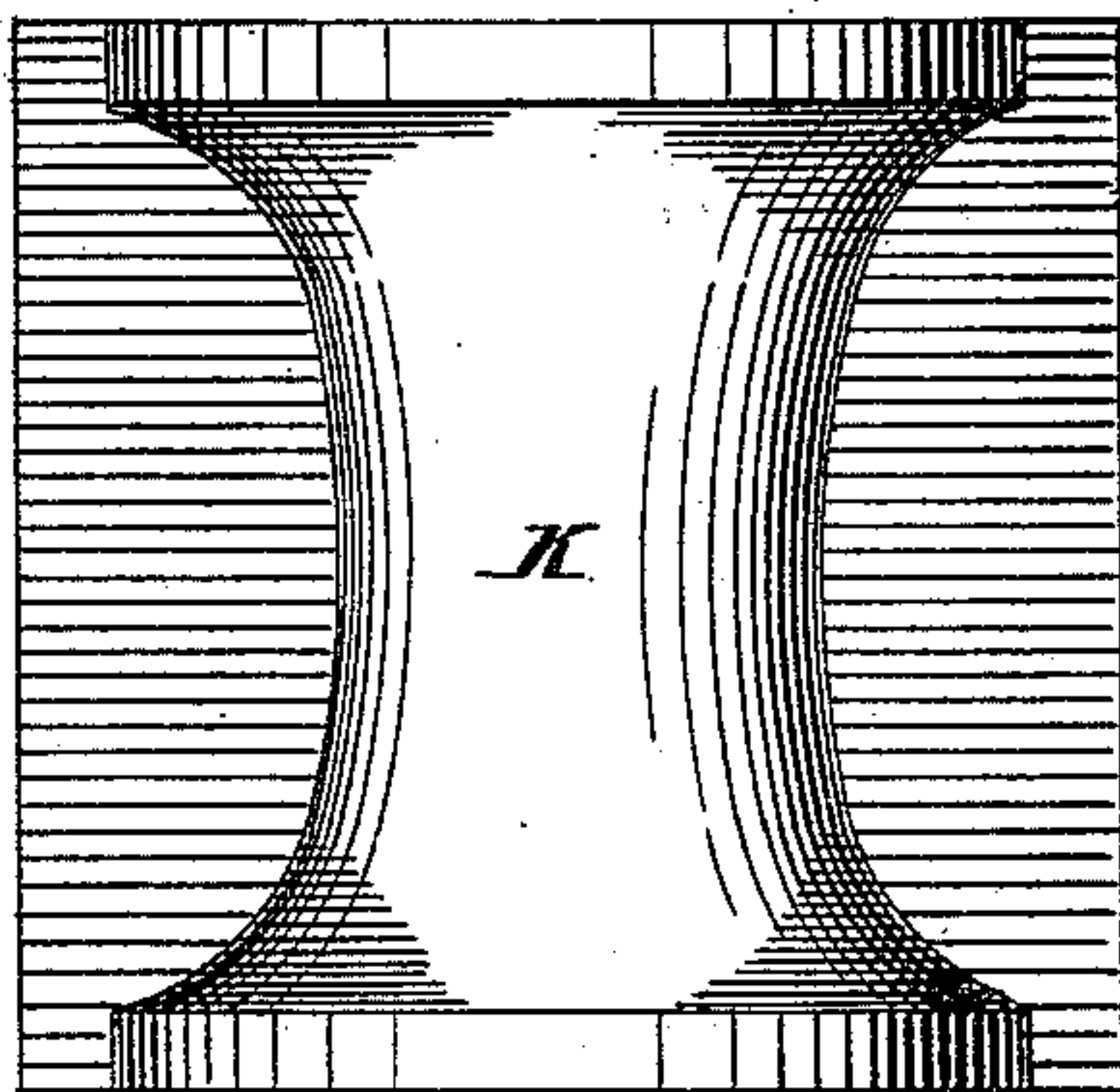
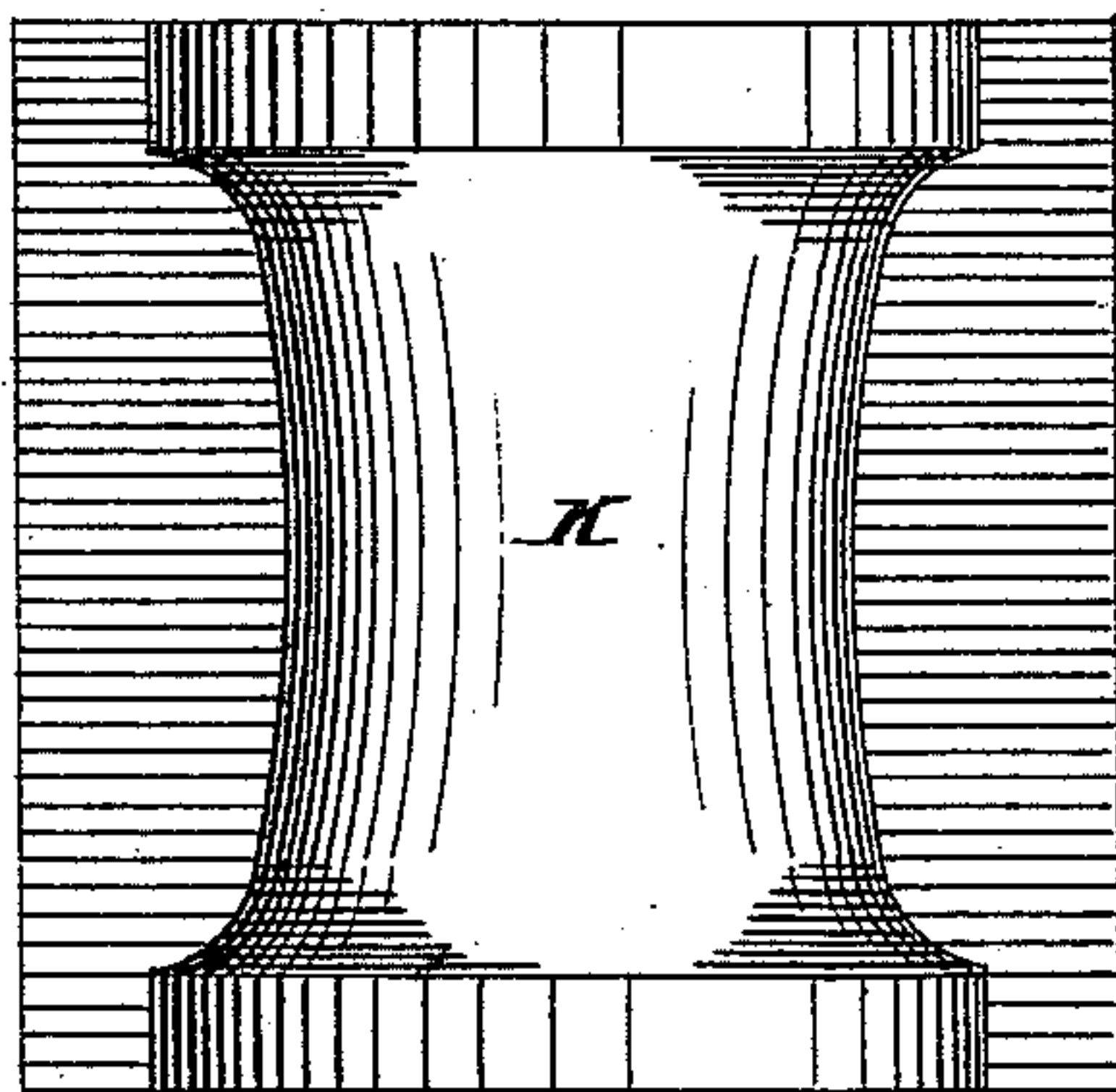
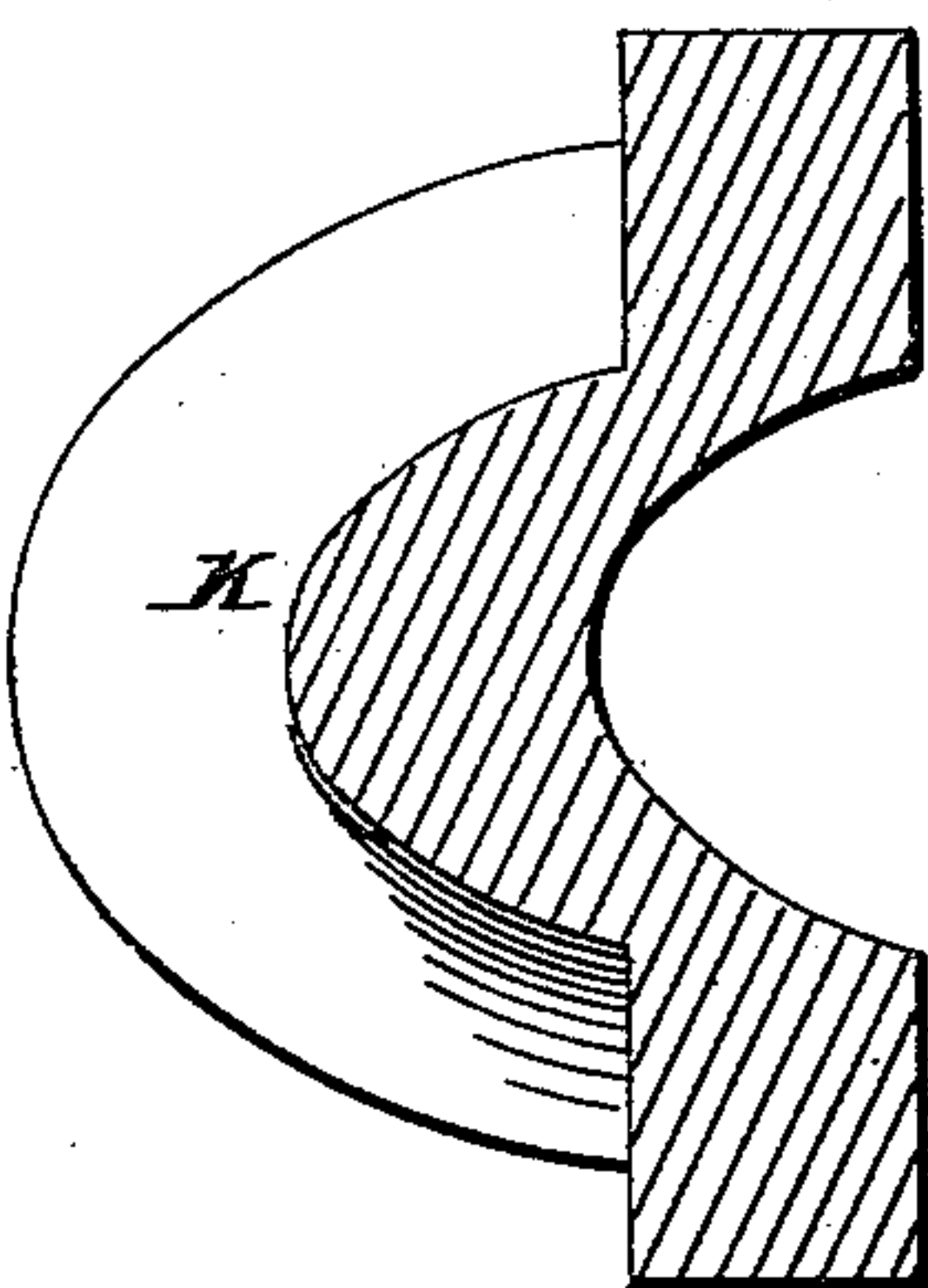
*Fig. 2.*



*Fig. 3.*

*Fig. 4.*

*Fig. 5.*



WITNESSES:

*Francis McArthur.*  
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INVENTOR:

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BY

*Mumford*

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# UNITED STATES PATENT OFFICE.

GEORGE CHAMBERLIN, OF OLEAN, NEW YORK.

## IMPROVEMENT IN COLLAR-CAP PRESSES.

Specification forming part of Letters Patent No. **213,170**, dated March 11, 1879; application filed October 15, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE CHAMBERLIN, of Olean, in the county of Cattaraugus and State of New York, have invented a new and useful Improvement in a Collar-Cap Press, of which the following is a specification:

Figure 1 is a top view of my improved press. Fig. 2 is a vertical longitudinal section of the same, taken through the line *xx*, Fig. 1. Fig. 3 is a cross-section of one of the intermediate dies. Fig. 4 is a detail view of one of the intermediate dies, showing its convex side. Fig. 5 is a detail view of the same, showing its concave side.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved press for rapidly shaping leather and sheet-metal caps for horse-collars, which shall be so constructed that any desired number of the caps may be shaped at the same time.

The invention consists in the intermediate or double die, one or more, so shaped upon one side as to form the outer or convex side of a collar-cap, and so shaped upon the other side as to form the inner or concave side of another collar-cap, in combination with the end or single dies, and with the head-block and the follow-block of a press, as hereinafter fully described.

A represents the base of the press, to which, near its forward end, is attached the head-block B.

To the side edges of the head-block B are attached the ends of the guide-rods C, which pass through lugs upon the side edges of the follow-block D, and their other ends are attached to the side edges of the block E, attached to the base A, near its rear end.

In the center of the block E is secured a stationary nut, F, through which passes a screw, G. The forward end of the screw G is swiveled to the center of the follow-block D, and to its rear end is attached the hand-wheel H, by means of which it is operated.

I J are the single dies, the face of one, I, of

which is so formed as to give the required shape to the outer or convex side of a collar-cap. The face of the other die, J, is so formed as to give the required shape to the concave side of a collar-cap.

K are intermediate dies, which are made double or with two faces, one face being so formed as to give the required shape to the inner or concave side of a cap, and its other face being so formed as to give the required shape to the outer or convex side of a cap.

Any desired number of the dies K may be interposed between the dies I J, according to the number of caps to be formed at a time.

This invention is especially useful in rapidly forming collar-caps of leather, as the leather has to be wet before it is brought into shape, and must then be kept in the dies until it becomes dry and set, so that it will retain the shape given to it.

By the use of the intermediate dies, K, any desired number of caps can be formed at a time, so that they can be allowed to stand in the press until they are dry and set, being a great saving of time and expense over the ordinary way.

If desired, two of the double dies K may be used for end or single dies, the shape of the outer side of the said end dies being immaterial.

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

The intermediate or double die, K, one or more, so shaped upon one side as to form the outer or convex side of a collar-cap, and so shaped upon the other side as to form the inner or concave side of another collar-cap, in combination with the end or single dies, I J, and with the head-block B and the follow-block D of a press, substantially as herein shown and described.

GEORGE CHAMBERLIN.

Witnesses:

G. E. RAMSEY,

WILLIAM H. RAMSEY.