

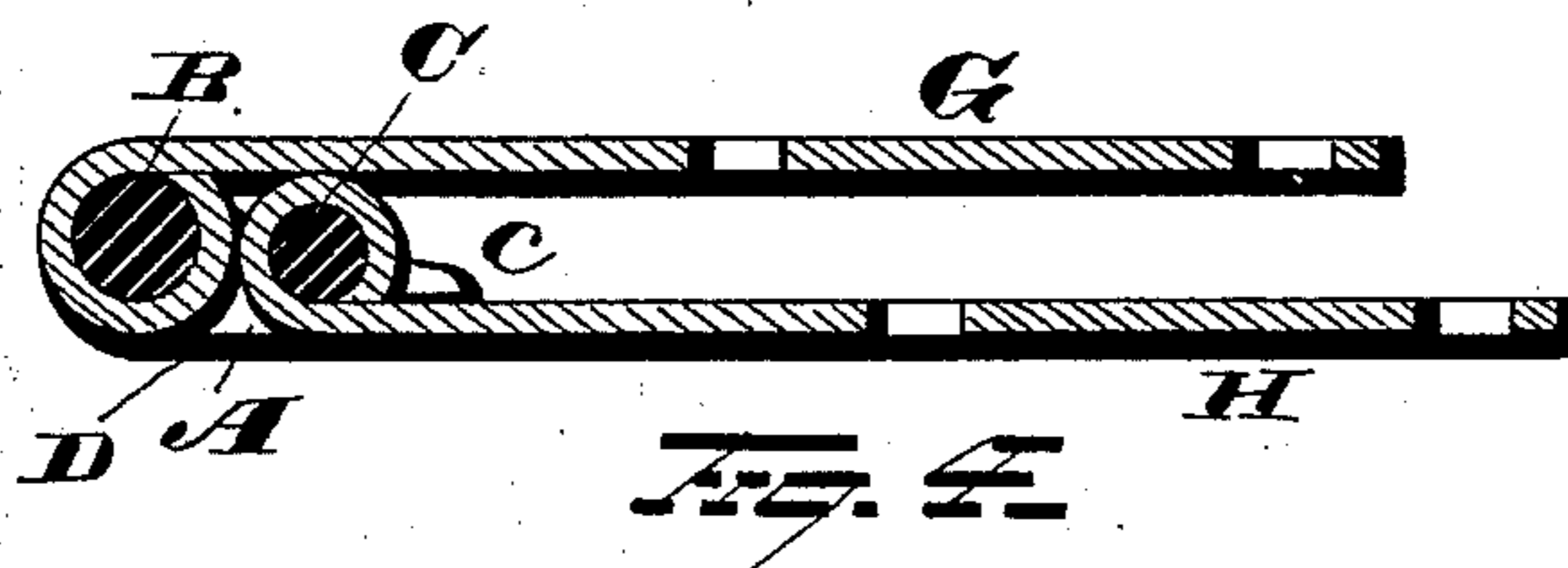
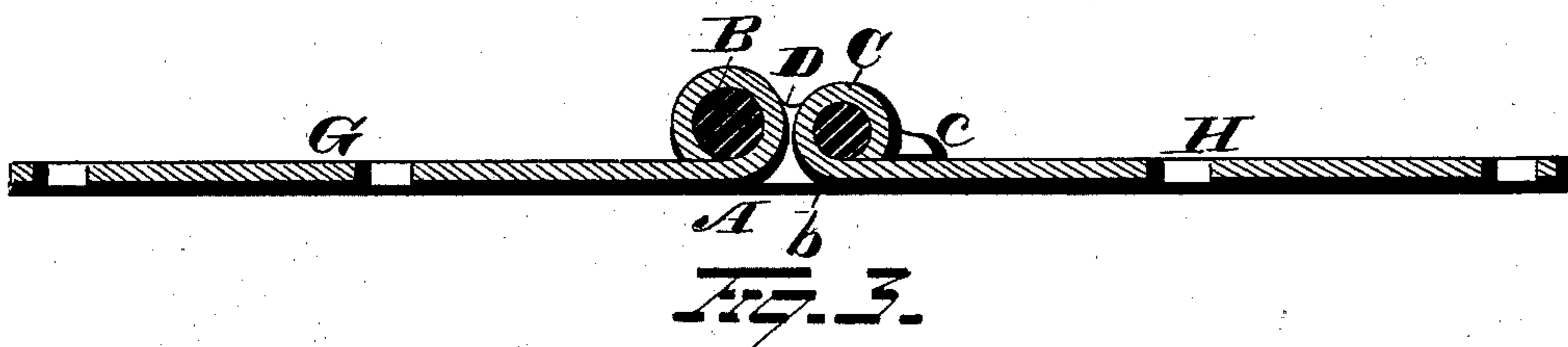
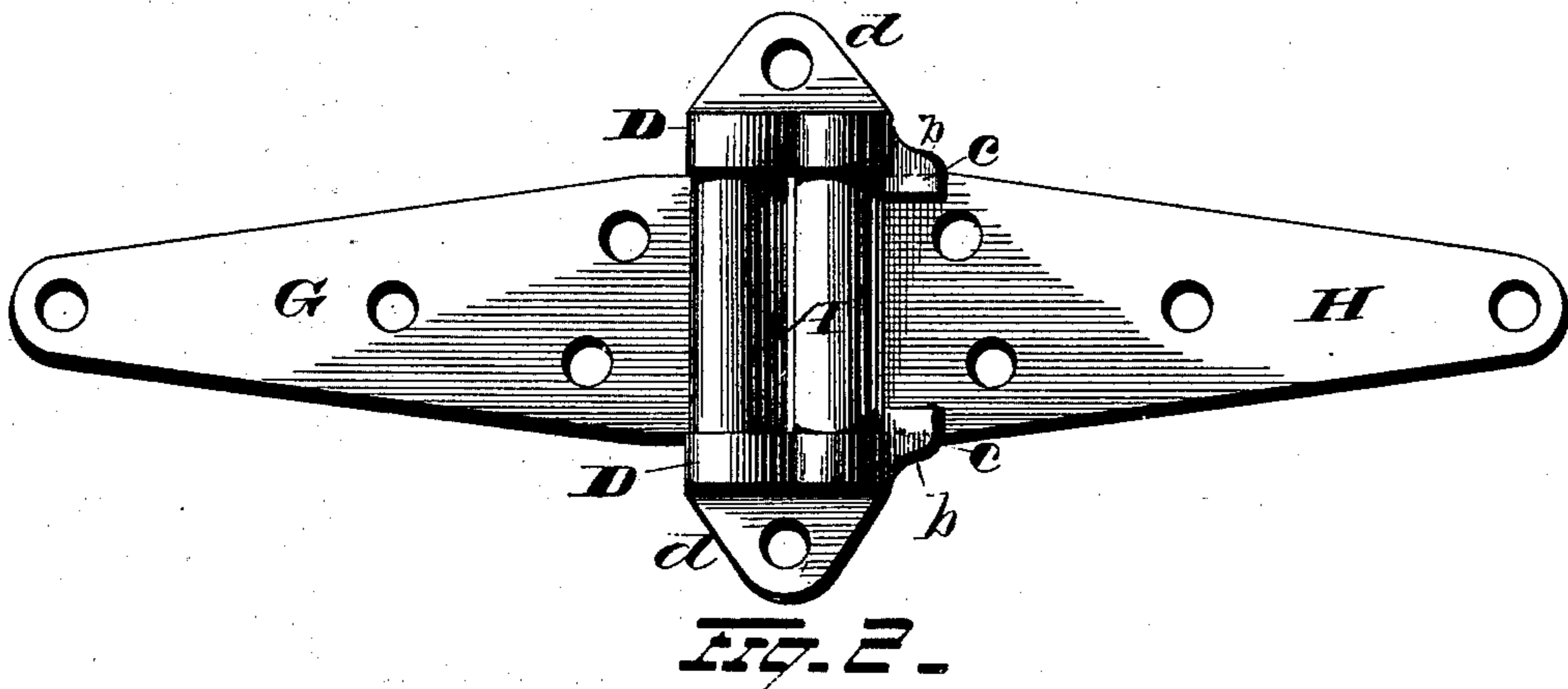
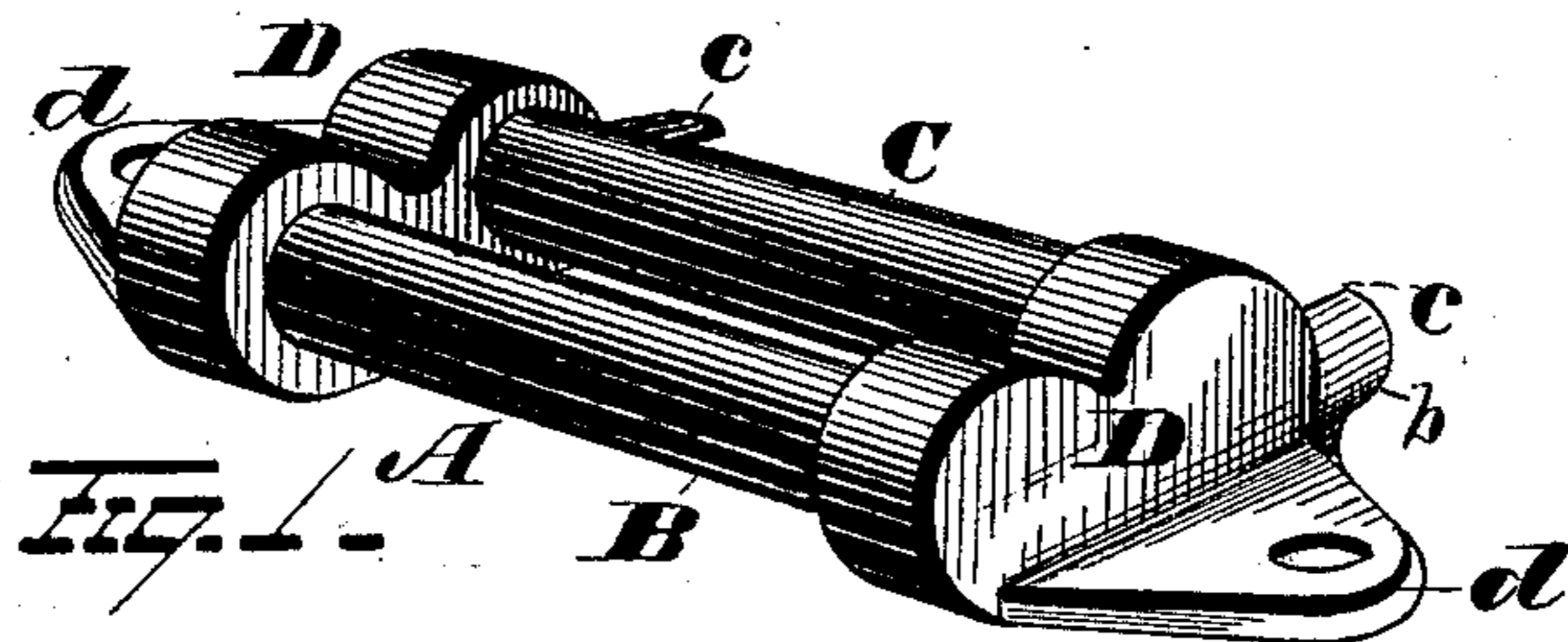
(Model.)

H. C. LEWIS.

HINGE.

No. 279,775.

Patented June 19, 1883.



WITNESSES

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UNITED STATES PATENT OFFICE.

HOMER C. LEWIS, OF COLUMBUS, OHIO.

HINGE.

SPECIFICATION forming part of Letters Patent No. 279,775, dated June 19, 1883.

Application filed January 6, 1883. (Model.)

To all whom it may concern:

Be it known that I, HOMER C. LEWIS, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Hinges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to an improvement in hinges, and is designed more especially as an improvement on Patent No. 220,295, granted to me October 7, 1879, the object of the same being to provide means for preventing the pintle-frame, when opening or closing the hinge, from turning or rocking on the small pintle or rigid leaf of the hinge, should the surface to which the pintle-frame and rigid portion of the hinge are attached be uneven; and with this end in view my invention consists in the parts and combinations of parts, as will be more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation of the pintle-frame. Fig. 2 is a plan view of the hinge. Fig. 3 is a longitudinal sectional view of the same; and Fig. 4 a similar view, showing one leaf folded back over the other.

A represents the pintle-frame, composed of the two pins B and C and the two flanged heads D, the latter being secured to the outer ends of the pins B C, or cast integral therewith, as desired. Each head D is provided with a projecting ear, *d*, having a screw-hole therein, by means of which it is securely fastened in position, and with a laterally-projecting flange, *b*, adapted to rest on the edge of the rigid leaf, and an inwardly-projecting flange, *c*, adapted to rest against the outer face of the rigid leaf, and under all conditions hold the rigid leaf and pintle-frame in the same relative position.

Around the two pins B C the inner or adjacent ends of the leaves G and H are respectively bent, the joint of each being formed the entire width of the leaf, thereby securing the greatest strength to the hinge. The portion of the heads D back of the pintles B C is about the same width as the thickness of the metal composing the leaves G H, so that

the parts of the complete hinge may rest smooth and flush as far as practicable. The pin B, on which the movable leaf G is pivoted, is larger in diameter than the pin C, the difference in diameters preferably being equal to the thickness of the metal of the leaves, so that the leaf G may freely fold back over the leaf H, as shown in Fig. 4, and the positions of the pins relative to the heads D are such that their rear tangents are equidistant from the rear side of the heads D.

The pintle-frame, together with the leaf H, is designed to be rigidly secured to a jamb or fence-post in the ordinary manner, and when the parts are secured in position the inwardly-projecting flanges *c* of the heads D rest against the outer face of the leaf H and prevent the pintle-frame from turning or rocking in the bearing formed by bending the inner end of the leaf H. This construction of parts throws nearly the entire weight of the swinging door or gate on the large pintle B, and consequently relieves the small pintle C of considerable unnecessary weight that it is subjected to when the pintle-frame and hinge are not rigidly held in their proper relative position.

The flanges *c* also prevent the turning or rocking of either or both heads or castings on the small pintle, and consequently prevent the loosening of the screws which hold the pintle-frame in position.

My improvement is simple in construction, is durable and effective in use, and can be manufactured at a small initial cost.

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

A hinge consisting of two leaves secured to independent pintles, and pintle-heads constructed with flanges adapted to overlap the edges of the outer face of one leaf and prevent the said leaf from turning on its pintle, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HOMER C. LEWIS.

Witnesses:

F. SIEGEL, Jr.,
G. G. COLLINS.