

(No Model.)

H. FLOYD.
FEED CUTTER.

No. 288,170.

Patented Nov. 6, 1883.

Fig. 1.

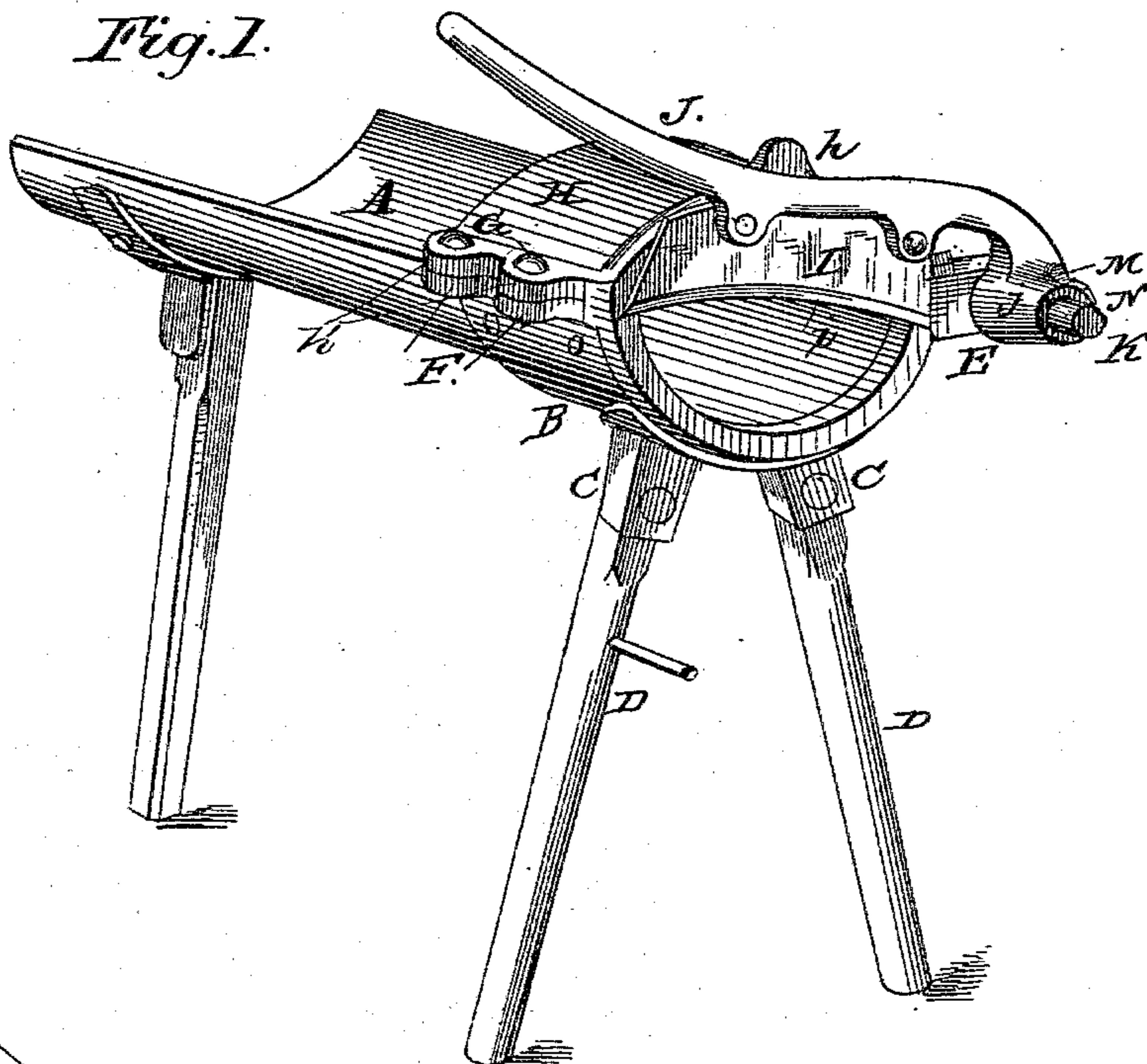


Fig. 2.

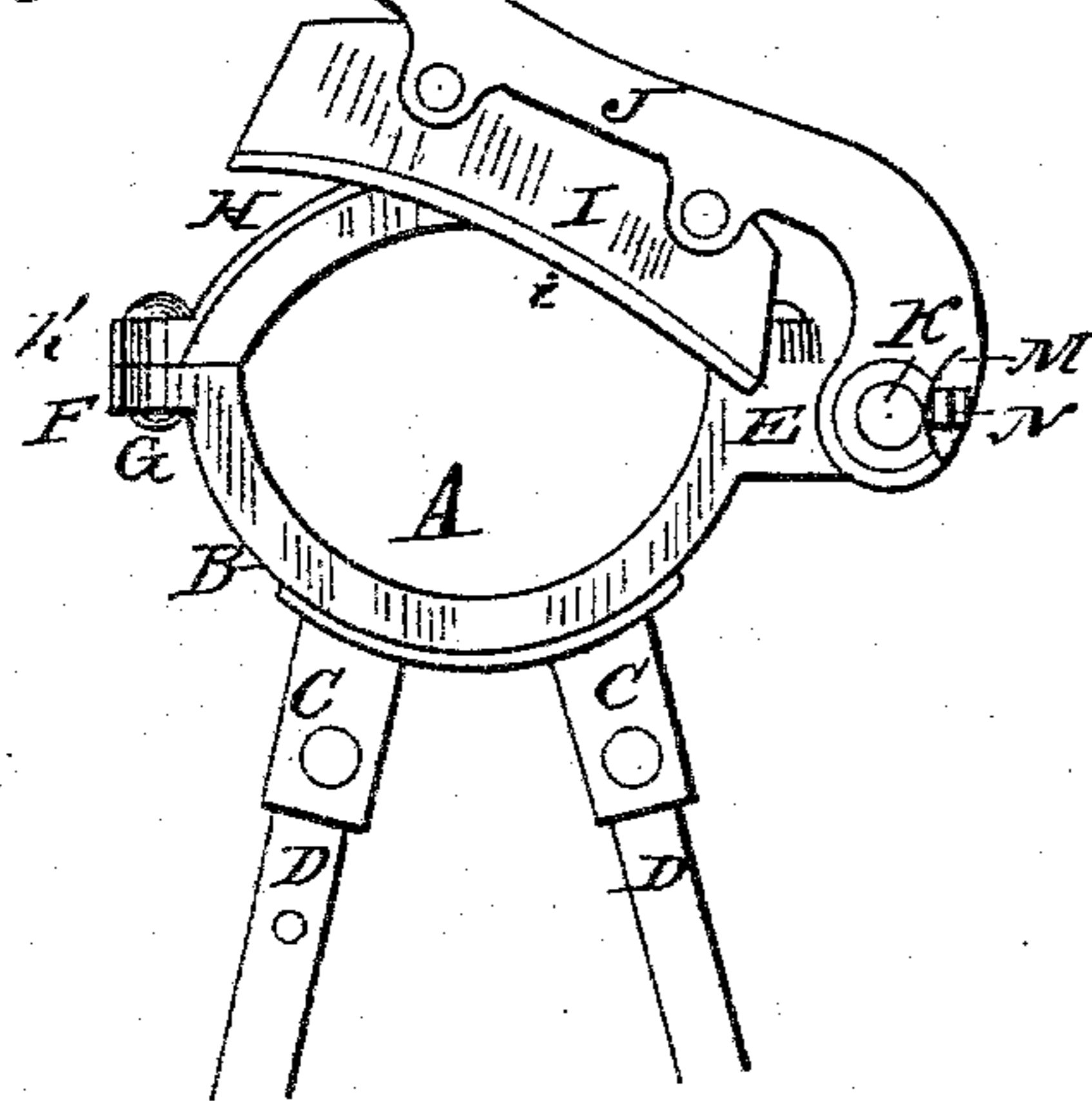


Fig. 3.

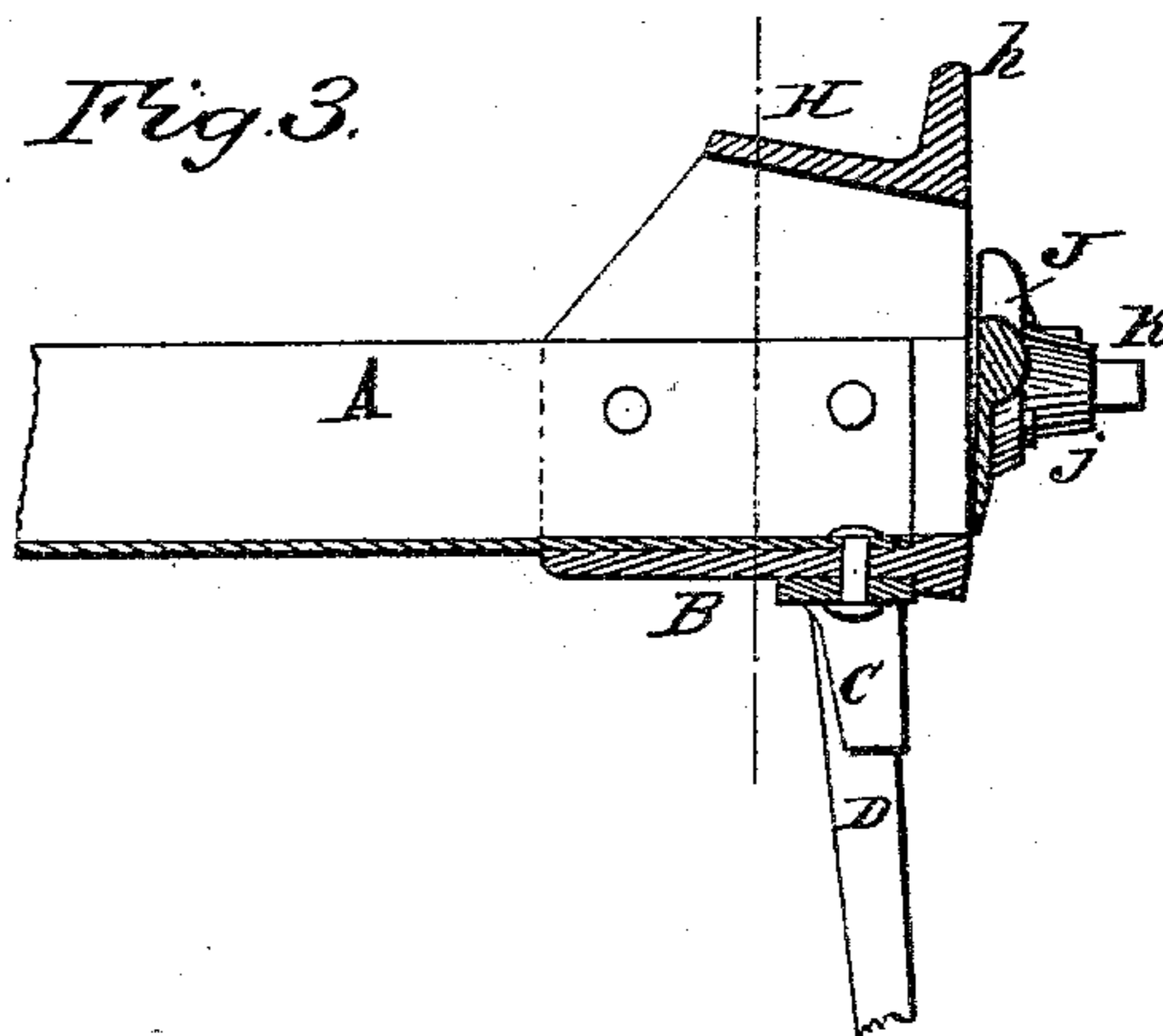


Fig. 4.

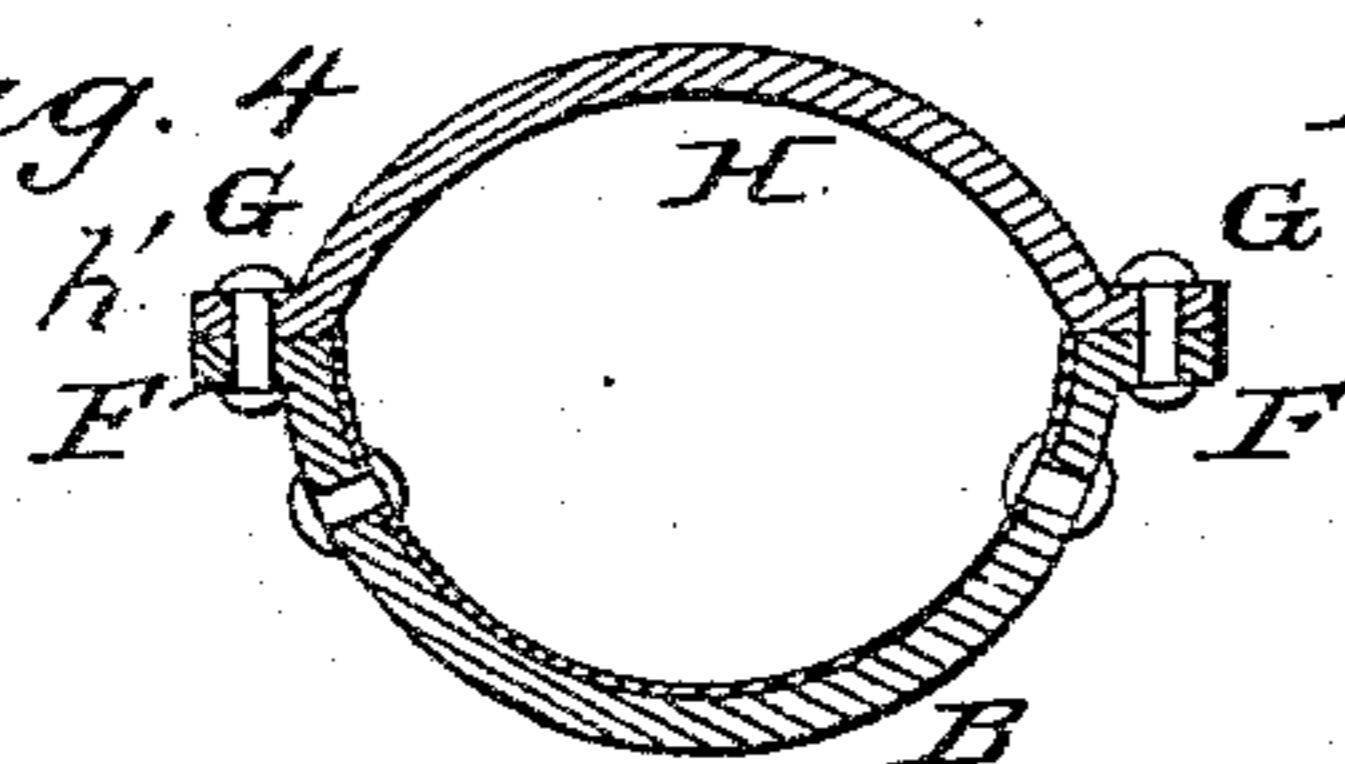


Fig. 5.

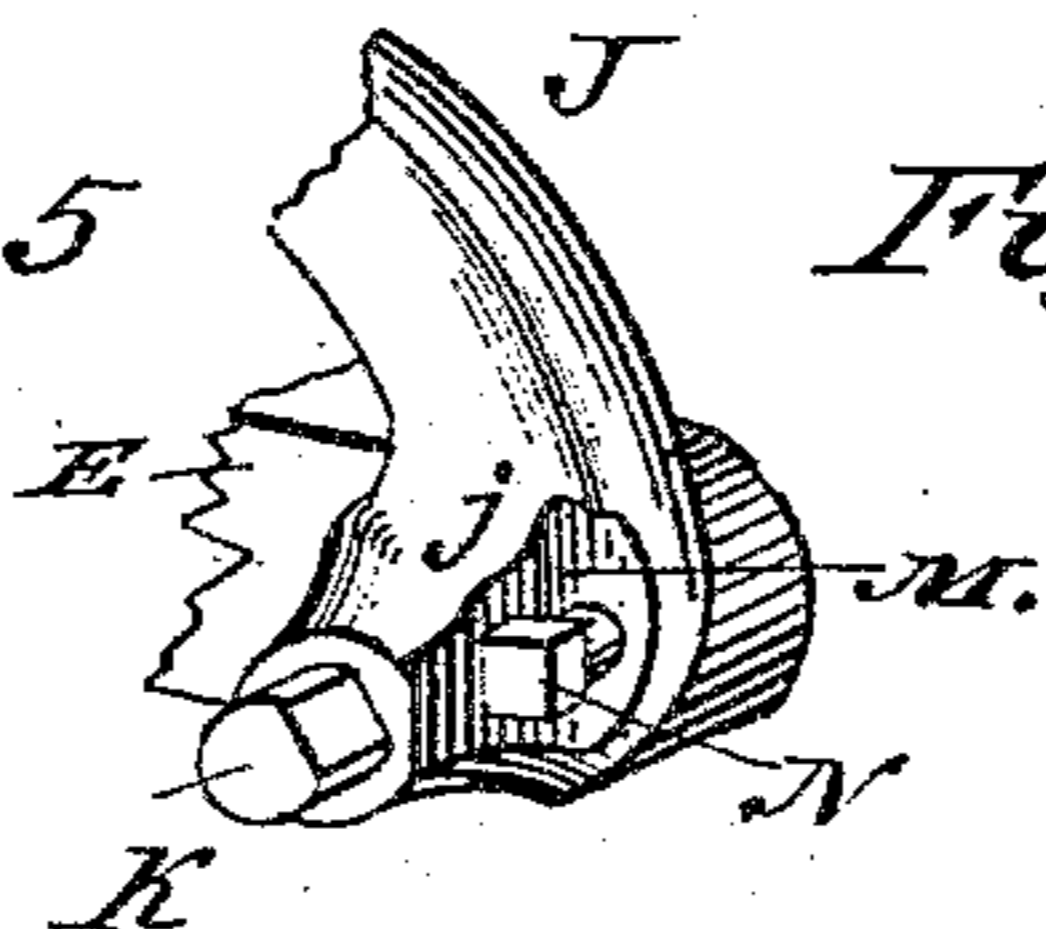
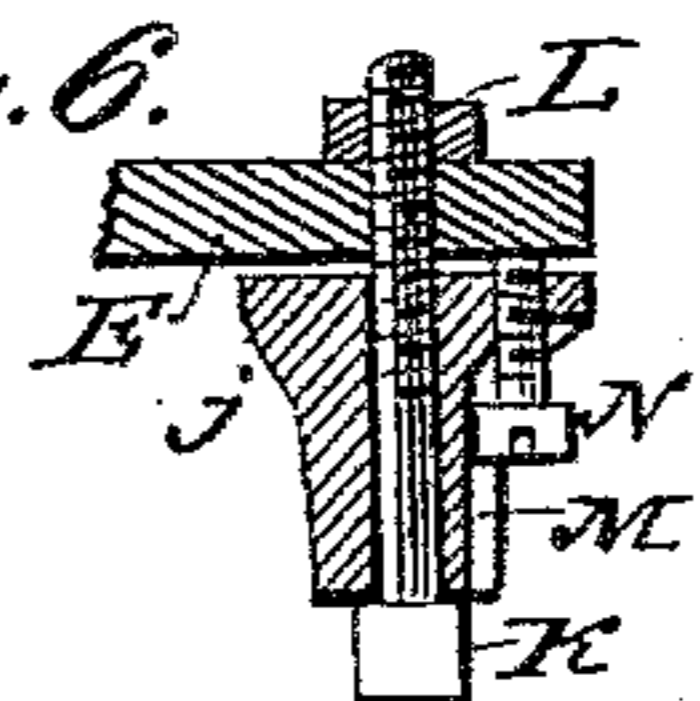


Fig. 6.



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FEED-CUTTER.

SPECIFICATION forming part of Letters Patent No. 288,170, dated November 6, 1883.

Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, HALLECK FLOYD, a citizen of the United States, and a resident of Dublin, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Feed-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved feed-cutter. Fig. 2 is a front view of the same. Fig. 3 is a longitudinal vertical section through the front part of the machine. Fig. 4 is a vertical cross-section through the same part. Fig. 5 is a perspective detail view of the hinged end of the knife-lever with its bearing and adjusting screw, and Fig. 6 is a sectional view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to feed or straw cutters; and it consists in the improvements in the detailed construction of the same which will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings, A is the cutter-box, which is made of wood or metal, in the shape of a trough, semicircular in cross-section, but increasing in width toward its rear end. The front part of this box or trough A is bolted or riveted to a semicircular casting, B, the under side of which has cast sockets C, for the attachment of the front legs, D. The part B is also cast with a laterally-extending arm, E, having a threaded hole to receive the bolt K, which forms a bearing for the lever or handle of the knife, to be hereinafter described; and it further has projecting ears F, which are bored through for the insertion of bolts or rivets G, by means of which the hood or top part, H, is permanently fastened to the lower part or trough-support, B.

The hood H is cast with a projection, h, which forms a guide-bearing for the knife in operating the machine. This knife (shown

at I) is fixed upon the lever J, and has a concave cutting-edge, i. Lever J is pivoted upon a bolt, K, the threaded inner end of which is nutted to arm E by the adjustable nut L. By screwing the threaded bolt K into the threaded hole of the laterally-extending arm E, it will be seen that the pivoted end of lever J may be brought nearer to or farther from the face of arm E, as may be desired, and fastened by tightening the adjustable nut L.

A recess, M, is made in the pivoted end or head j of lever J, for the insertion of a set-screw, N, which bears with its inner end against the front side of arm E, as shown more clearly in Fig. 6 of the drawings. By adjusting this screw, which, it will be seen, is set a little above the axis of bolt K, lever J may be so adjusted that the concave cutting-edge of the knife will bear closely against the mouth of the hood and cutter-box, and thus make a clear shear cut across the grain or feed placed in the box.

The advantages of my improved feed-cutter are, among others, the following: The semicircular trough A holds the feed in such a position for cutting that the knife has a direct bearing at any angle, and therefore the grain does not have to readjust itself to the knife, as in the case of the V-shaped or square-shaped boxes. Again, the concave cutting-edge of the knife, in conjunction with the peculiar ogee shape of the mouth, permits of a longer cut with a shorter stroke or sweep of the handle than where a V-shaped or square box is used. By adjusting the inclination of the knife as against the cutter-box by means of the set-screw N, I can at all times provide for a clear shear cut, and at the same time the construction of the whole machine is so simple, consisting, as it does, of a few parts easily put together, that it can be manufactured and sold at a comparatively small cost.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, in a feed-cutter, of the semicircular trough A, semicircular casting B, provided with projections F, and having the arm E, and hood H, having projections h,

fastened to the part B by bolts or rivets G, substantially as and for the purpose shown and set forth.

2. The combination, in a feed-cutter, of the
5 casting B, having sockets C, arm E, and ears F, hood H, having ears *h'*, and top projection, *h*, connecting bolts or rivets G, lever J, having knife I, provided with a concave cutting-edge, *i*, and recessed at M, bolt K, having nut
10 L, and set-screw N, the whole constructed and

combined substantially in the manner and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own, I have hereunto affixed my signature in presence of two witnesses.

HALLECK FLOYD.

Witnesses:

A. G. COMPTON,
J. N. GILBERT.