

(No Model.)

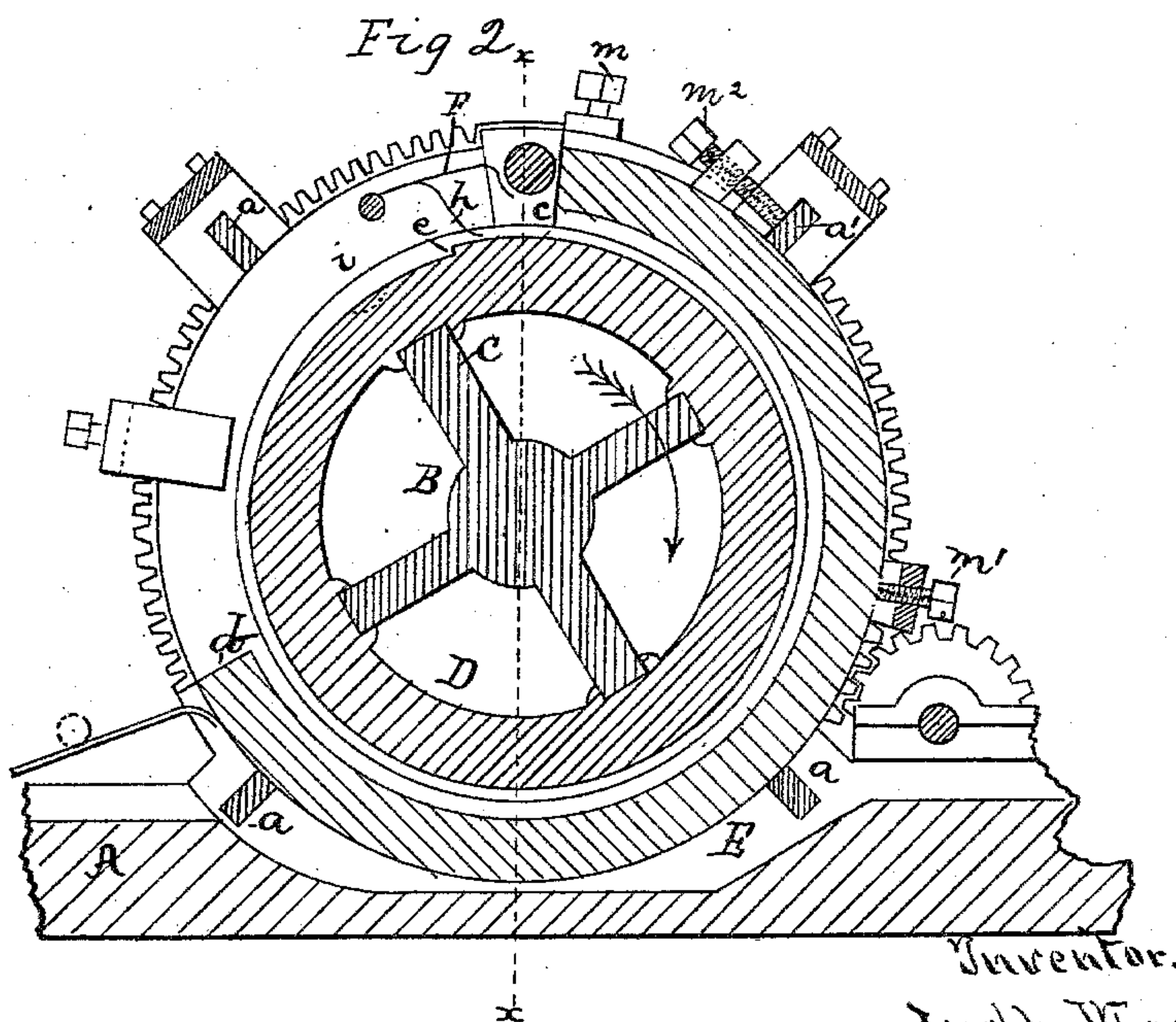
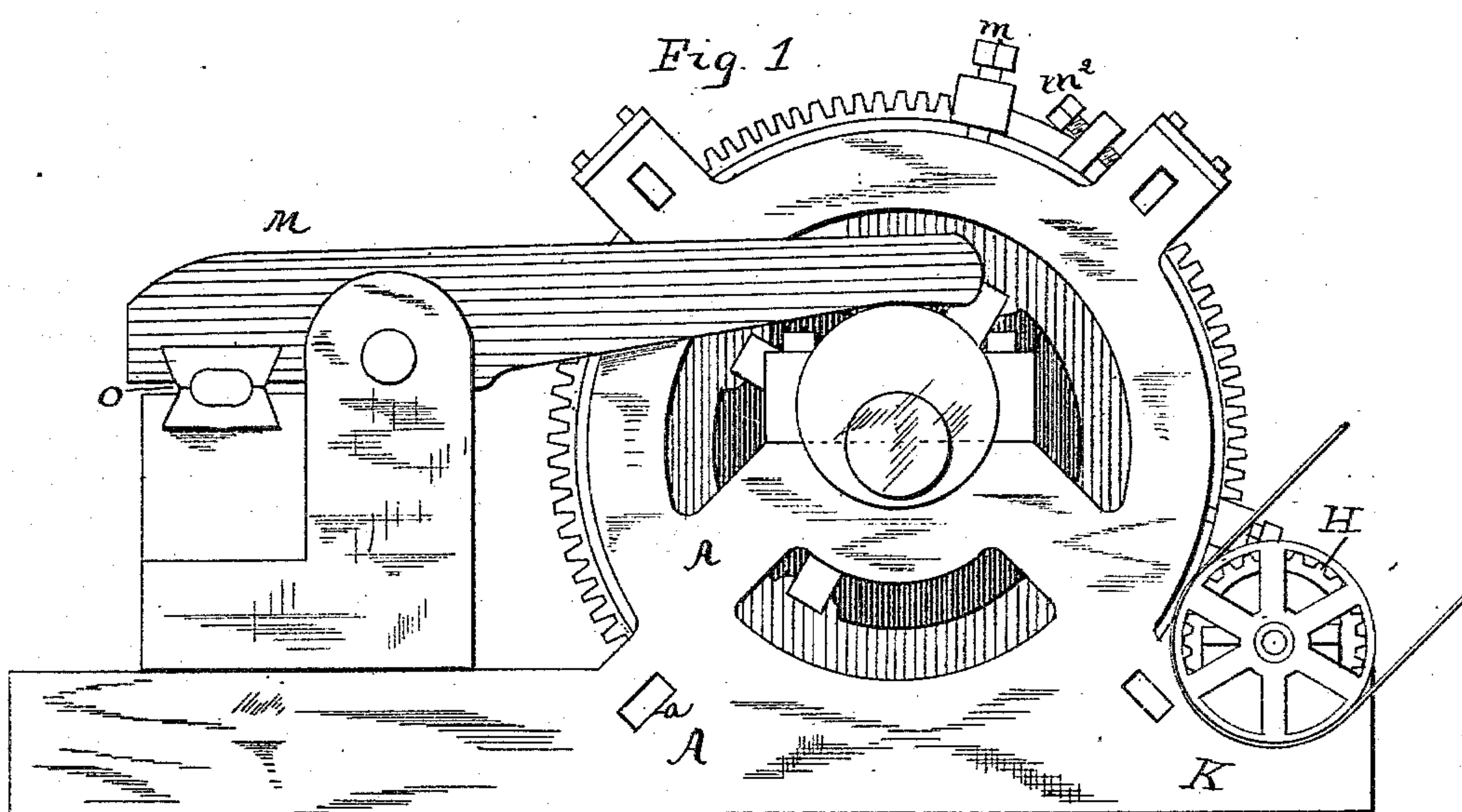
2 Sheets—Sheet 1.

J. MASETH.

MACHINE FOR ROLLING COUPLING PINS.

No. 286,324.

Patented Oct. 9, 1883.



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Charles J. Ford

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Joseph Maseta.

By *Thos. S. Sprague* Atty

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2 Sheets—Sheet 2.

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Fig. 3.

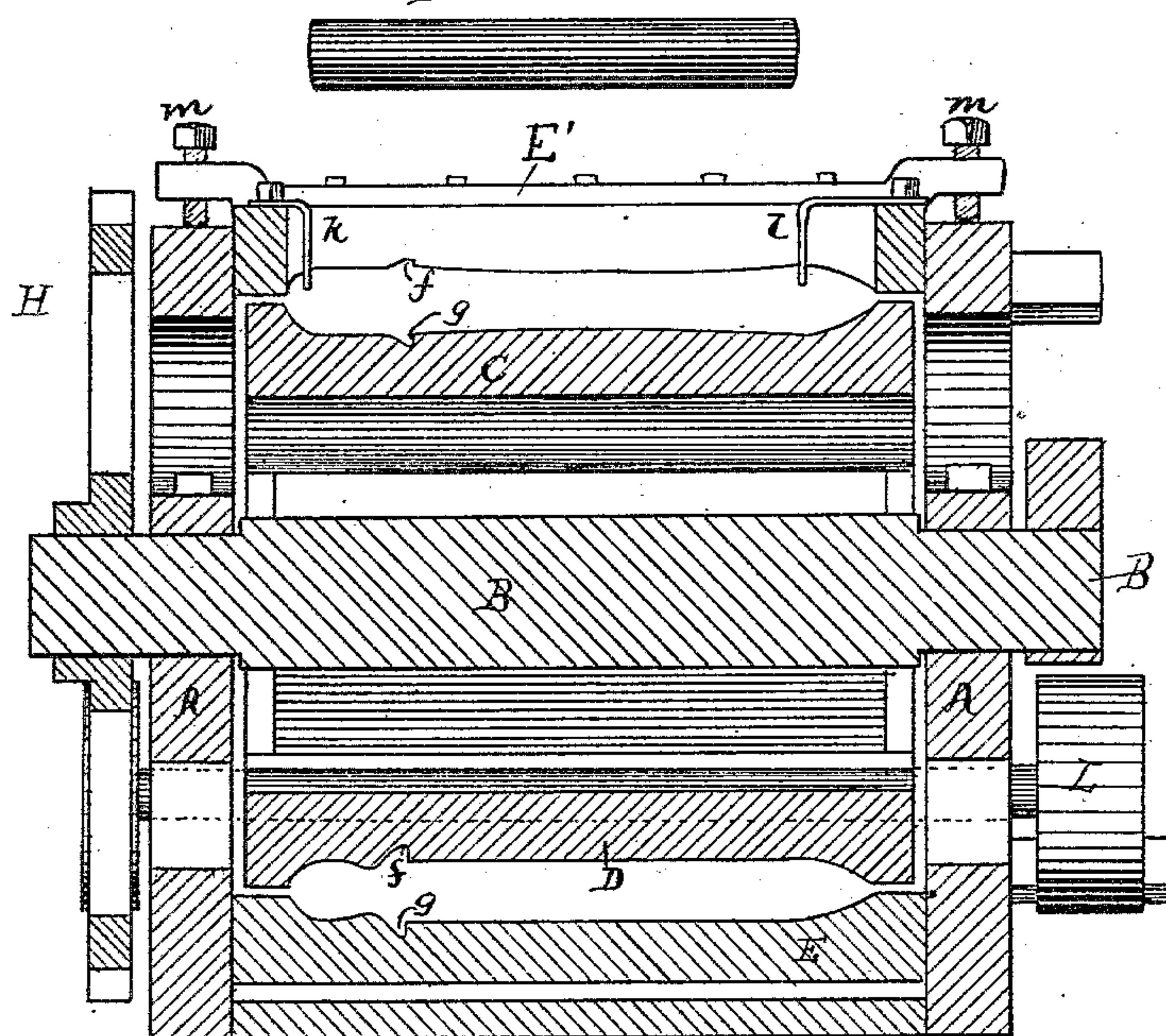
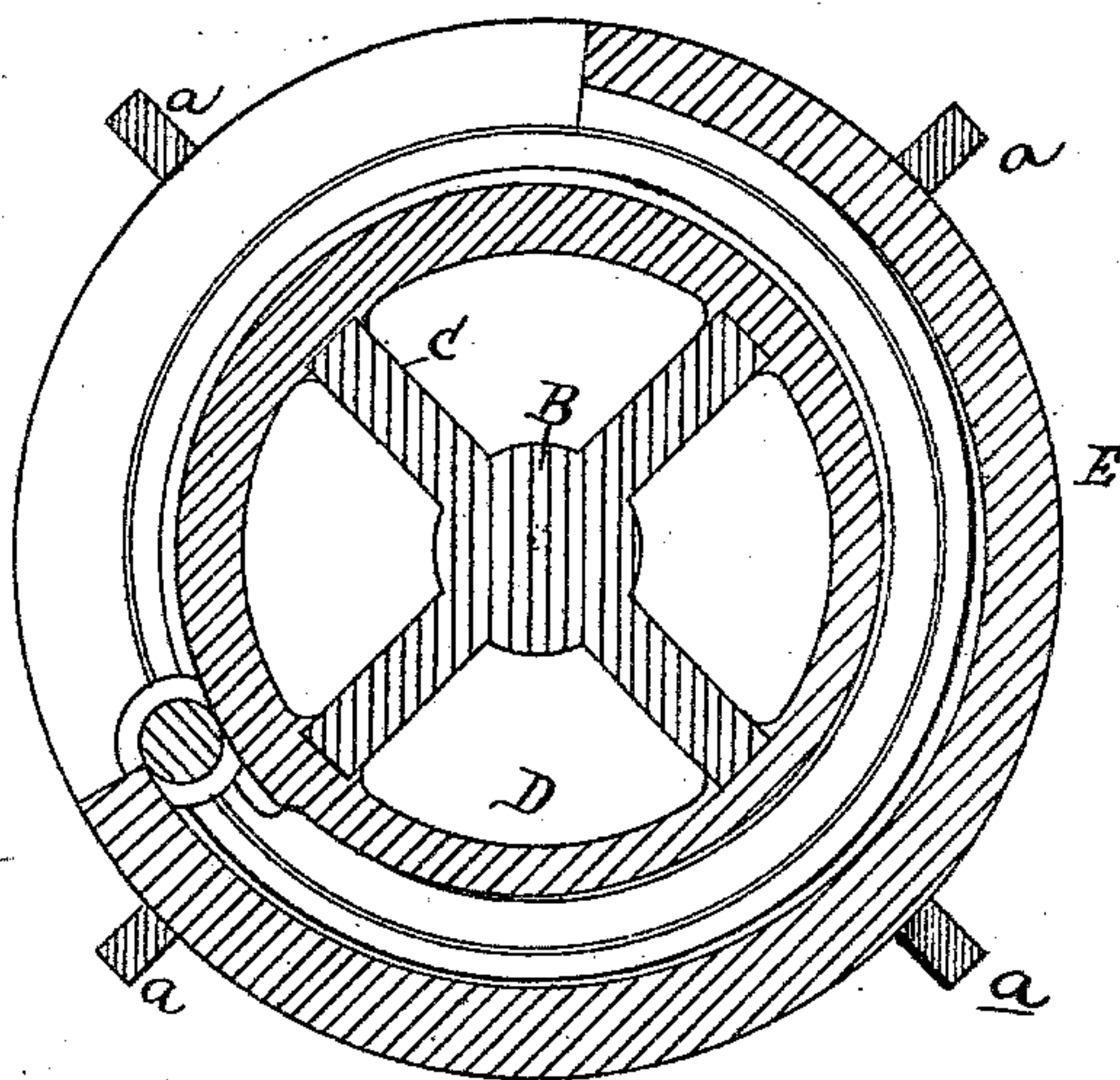


Fig. 4.



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UNITED STATES PATENT OFFICE,

JOSEPH MASETH, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO JOHN A. MASETH AND JOSEPH L. MASETH, OF SAME PLACE.

MACHINE FOR ROLLING COUPLING-PINS.

SPECIFICATION forming part of Letters Patent No. 286,324, dated October 9, 1883.

Application filed May 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MASETH, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Machines for Rolling Coupling-Pins; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in the construction of that class of machines especially designed for rolling or forming draw-pins for car-couplings, such pins being formed from a suitable blank, which is heated and dropped into the machine, from which it emerges formed into the desired shape.

The invention consists in the peculiar construction, arrangement, and various combinations of the parts, all as more fully hereinafter set forth.

Figure 1 is a side elevation of my improved device. Fig. 2 is a vertical central section. Fig. 3 is a cross-section on the line X X in Fig. 2. Fig. 4 is a cross-section showing the die-roll in its position near the finish of the rolling.

In the accompanying drawings, which form a part of this specification, A represents a suitable frame, in which is properly journaled the transverse shaft B, which is provided between its bearings with the spider-arms C, upon which the die-roll D is concentrically secured.

E is a stationary die roll or bed, placed concentrically to the revolving die-roll D, and held in position by the transverse keys *aaa'*, three of which bear against the outside of said bed, and all pass through suitable slots in the frame A. The outer die roll or bed, E, is in the form of a hollow cylinder, with a portion of its body between *c* and *d* cut away, so as to expose the face of the die-roll D. The inner face of the die roll or bed E is grooved from *c* to *d*, and the inner die roll, D, is grooved around its entire face, said grooves being intended to roll a blank inserted between them gradually into the desired form. The size of the rolls D and E is so calculated that if a blank to produce an ordinary coupling-pin is

introduced at *c*, one revolution (or nearly one) will roll the blank from the point of introduction at *c* in the direction of the arrow marked on Fig. 2 to the point *d*, where, owing to the cutting away of the die-roll E, the pin will roll out. As the blank can only be gradually welded into the desired shape, the groove on the inner face of the roll E and the one on the outer face of the roll D are at their starting-points—which are at *c* and *e*, respectively—of the shape shown at Fig. 3 on top. From thence they have a slight draft in opposite directions toward their terminal points, at which they are of the exact cross-section desired for the coupling-pin. The grooves *f* and *g*, also of unequal length, must bring, during their co-action upon the blank, corresponding cross-sections to bear against the same, and therefore the blank can only be introduced when those cross-sections register. With the machine shown in the drawings, the right moment to introduce or feed the blank is when the points *c* and *e* register, and to perform this automatically a latch, F, is arranged, upon which the blank is deposited. This latch has a foot, *h*, which bears against the face of the roll D, and supports the latch and blank in the position shown in Fig. 2 until said foot *h* drops into a notch, *i*, on the face of the roll D, and lets the blank fall upon the face of the roll D, which quickly draws it between the two rolls. To feed the blank in proper position, adjustable check-pieces *k* and *l* are attached to the inlet-opening, as shown in Fig. 3. The two rolls D and E must also have a certain clearance between them, so as to allow any superfluous metal from the blank to escape, and also to admit of a limited adjustment of the roll E by means of the set-screws *m m*. This adjustment is effected as follows: By turning in the set-screw *m*, the grooved bed E, being connected to the cross-bar E', through which said screws pass, can be raised to a limited degree. By turning in the screw *m'*, the bed can be adjusted forward. The screw *m''* bears against the transverse key *a'*, and thus allows of adjustment in another direction. By varying the amount of travel of these screws, the space between the roll D and bed E can be varied to a limited extent, but sufficiently to change the size of the

pins or to compensate for the wear of the parts. The transverse keys touching the bed loosely, and on three places only, admits of such adjustment.

5 To communicate motion to the roll D, a gear-wheel, H, is keyed upon one end of the shaft B, and another gear-wheel, I, upon a counter-shaft, K, meshes with it and communicates motion from the driver L upon the opposite
10 end of the counter-shaft.

In the drawings I have shown a device for flattening the pins when required, but make no claim to it in this application, as it may form the subject-matter of a separate appli-
15 cation.

What I claim as my invention is—

1. The combination, with a frame, A, a grooved bed, and a grooved roll provided with

a notch, *i*, of a latch, F, constructed and arranged to be automatically dropped by the rotation of said roll, substantially as described. 20

2. The combination, with the frame A, the grooved bed E, and the roll D, having notch *i*, of the latch F, provided with the foot *h*, adapted to rest on the roll and drop the blank when the step *e* approaches the beginning of the bed, all constructed and arranged substantially as shown and described. 25

3. The combination of the frame A, the roll D, supported therein, and the bed E, with the set-screws *m*, for adjusting the bed to the roller, substantially as described. 30

JOSEPH MASETH.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.