

(No Model.)

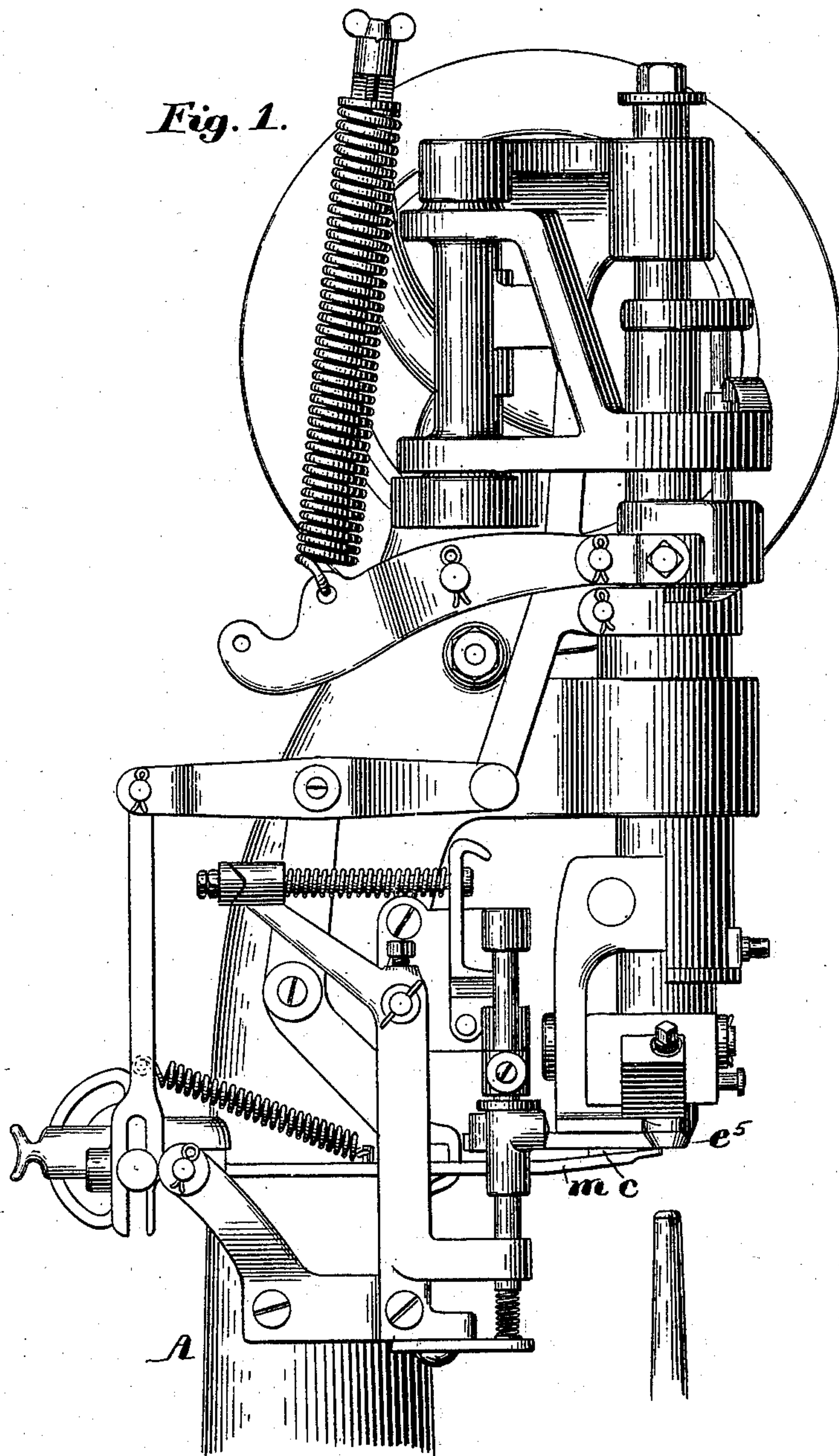
2 Sheets—Sheet 1.

G. N. GORDON.

MACHINE FOR INSERTING FASTENINGS IN BOOTS, SHOES, &c.

No. 578,696.

Patented Mar. 9, 1897.



Witnesses:
Walter E. Lombard.
Thomas J. Drummond.

Inventor:
George N. Gordon,
by Leroy & Gregory
Attys.

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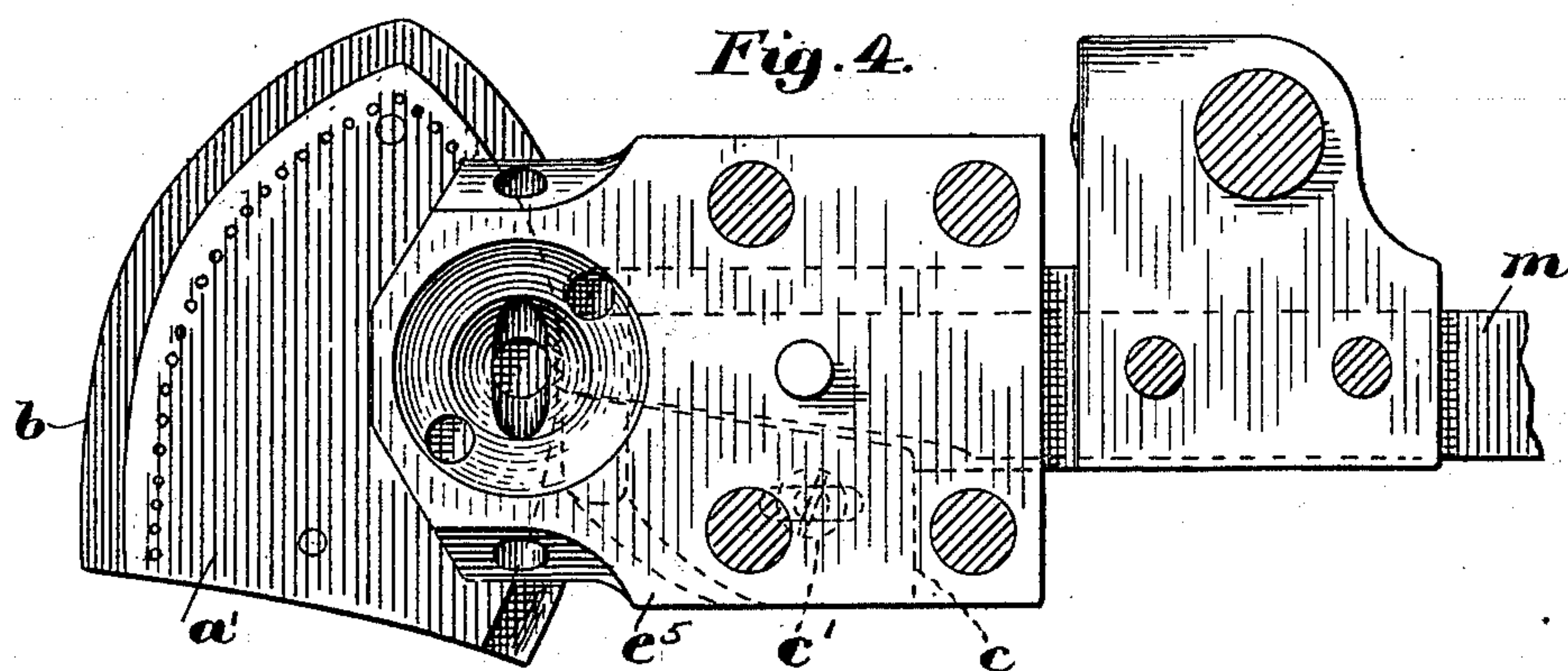
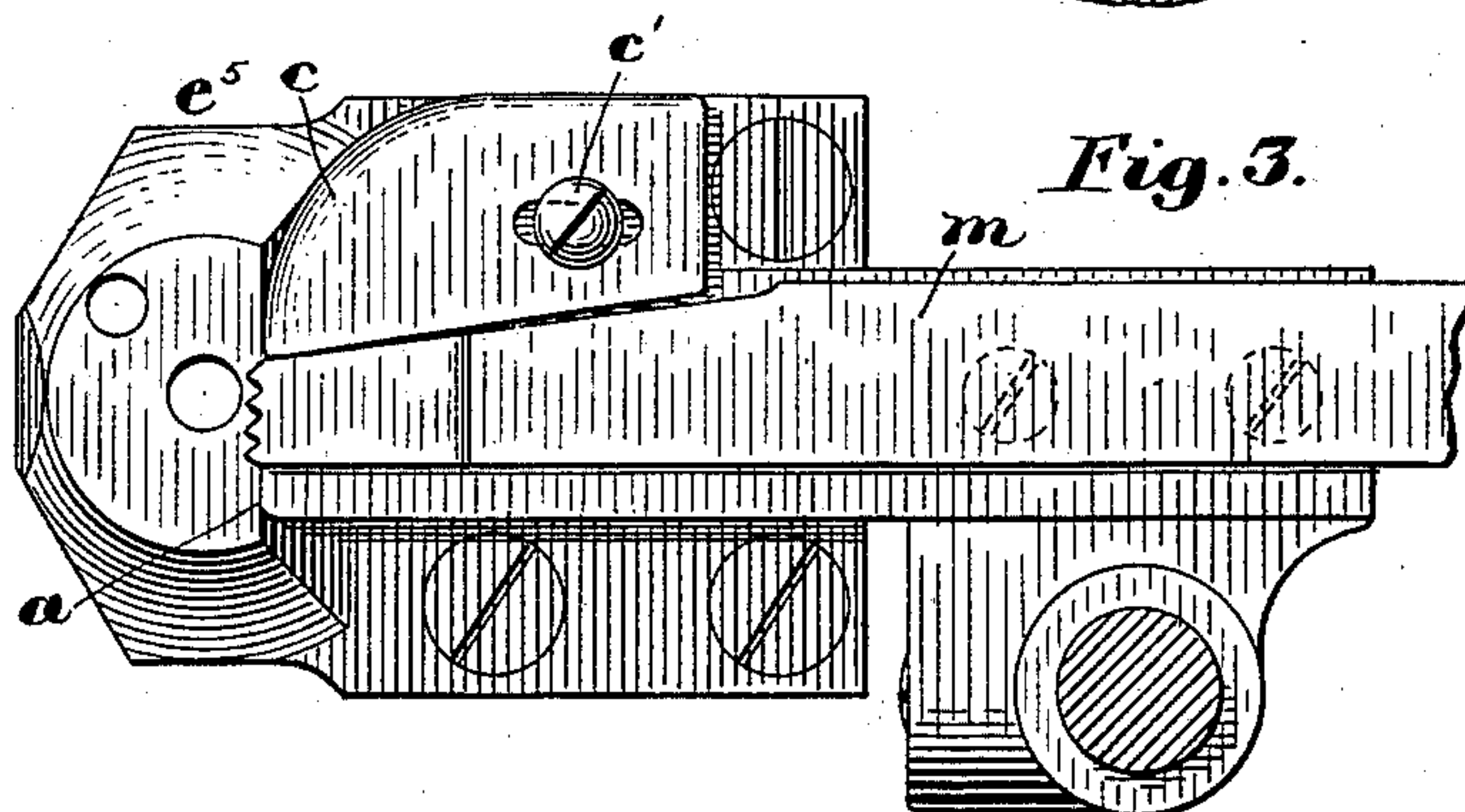
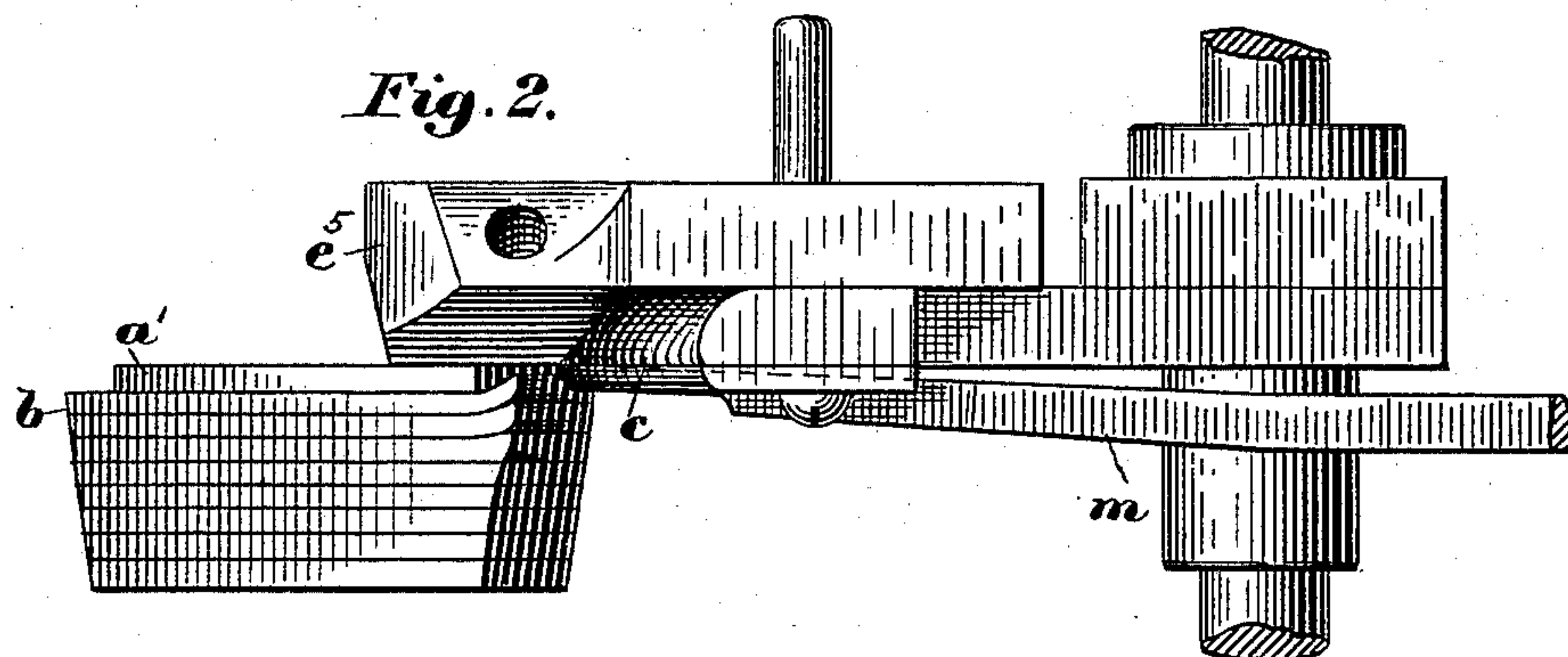
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UNITED STATES PATENT OFFICE.

GEORGE N. GORDON, OF MALDEN, MASSACHUSETTS, ASSIGNOR TO THE
WIRE GRIP FASTENING COMPANY, OF CHICAGO, ILLINOIS.

MACHINE FOR INSERTING FASTENINGS IN BOOTS, SHOES, &c.

SPECIFICATION forming part of Letters Patent No. 578,696, dated March 9, 1897.

Application filed August 3, 1896. Serial No. 601,420. (No model.)

To all whom it may concern:

Be it known that I, GEORGE N. GORDON, of Malden, county of Middlesex, State of Massachusetts, have invented an Improvement in
5 Machines for Inserting Fastenings in Boots, Shoes, &c., of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 In the manufacture of boots and shoes nails or slugs are driven into the top lift of the heel, the top lift being cut to shape and lying on intermediate lifts which are of greater size. The edge of the top lift is used as the
15 pattern against which acts the feeding device which feeds the boot or shoe heel step by step under the action of the devices for inserting the fastenings, and it frequently happens that the intermediate lift next the top lift becomes
20 bent at its edge, so as to partially cover or overlap the edge of the top lift, and in such event the feeding device used to feed the heel acts on the intermediate lift and causes the nail or slug to be driven into the top lift out
25 of proper line, it being understood that for proper salable work the nails or slugs driven into the top lift must be uniformly placed or located equidistant from the edge of the top lift whatever its shape. The nails or slugs
30 pass through a nose or lift plate into the heel, and I have combined with the nose-plate a depressor, it being adapted to act on the edge of the intermediate lift next to the top lift and crowd it down level, thus leaving a free
35 open space for the movement and action of the feeding device as it approaches and contacts with the edge of the top lift to engage and feed the same.

40 Figure 1 shows part of a well-known machine for inserting fastenings, such as nails and slugs, with my improvements added; Fig. 2, a much enlarged view of my improvements, the feed device acting on a heel; Fig. 3, an underside view, and Fig. 4 a top or plan view,
45 of the parts shown in Fig. 2.

50 The column A, the nose or lift plate e^5 , the feeding device m , and their actuating devices are and may be substantially as shown in United States Patent No. 325,274, dated September 1, 1888, to which reference may be had, the same letters being herein shown to designate like parts. The nose or lift plate

has at its under side a gage a , against which the edge of the top lift a' should rest when the nail or slug is to be inserted into it, the
55 feeding device m , actuated in usual manner or as provided for in said patent, engaging the edge of the top lift to move the heel to which it is attached uniformly.

Sometimes the larger intermediate lifts b 60 next to the top lift get turned up, so as to partially overlap the edge of the top lift, and in such position they interfere with the correct positioning and feeding of the heel, which is supposed to be attached to the sole of the
65 boot or shoe, but not yet trimmed to shape. To overcome this objection, I have combined with the nose or lift plate a depressor c , (see Figs. 2 and 3,) it having a beveled or tapered edge which rides on, depresses, and lays
70 smooth the projecting edges of the intermediate lifts before or as the part of the top lift about to receive nails or slugs comes into position to have the feeding device act on the
75 top lift.

The depressor is shown as made adjustable in its position by means of a screw c' , and it may be of any suitable thickness according to the work to be done.

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

1. A nose or lift plate for use in a machine for inserting fastenings into boot-heels, combined with a depressor to act on and depress
85 the edges of larger intermediate lifts next the top lift of the heel, substantially as described.

2. The nose or top lift plate provided at its under side with an edge gage and a de-
90 pressor having a beveled edge and attached to said plate, said depressor serving to act upon and depress the edges of larger intermediate lifts next the top lift, combined with a feeding device to act upon and feed the
95 heel, substantially as described.

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

GEORGE N. GORDON.

Witnesses:

GEO. W. GREGORY,
EMMA J. BENNETT.