

(No Model.)

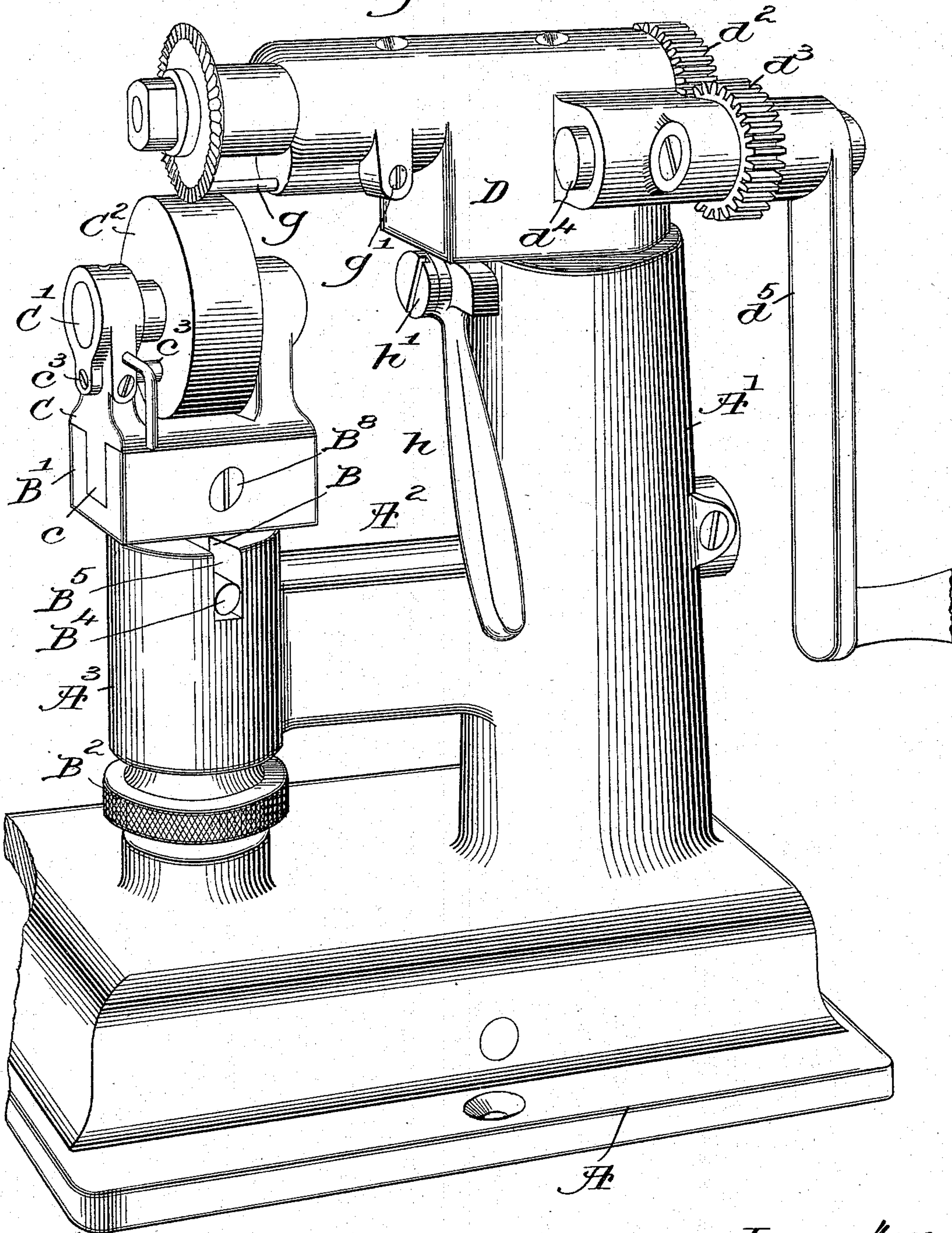
2 Sheets—Sheet 1.

C. H. BAYLEY.  
PINKING MACHINE.

No. 527,928.

Patented Oct. 23, 1894.

*Fig:1.*



*Witnesses.*

A. C. Harmon

Thomas J. Drummond

*Inventor:*

Charles H. Bayley,  
by Crosby & Gregory  
attys.

(No Model.)

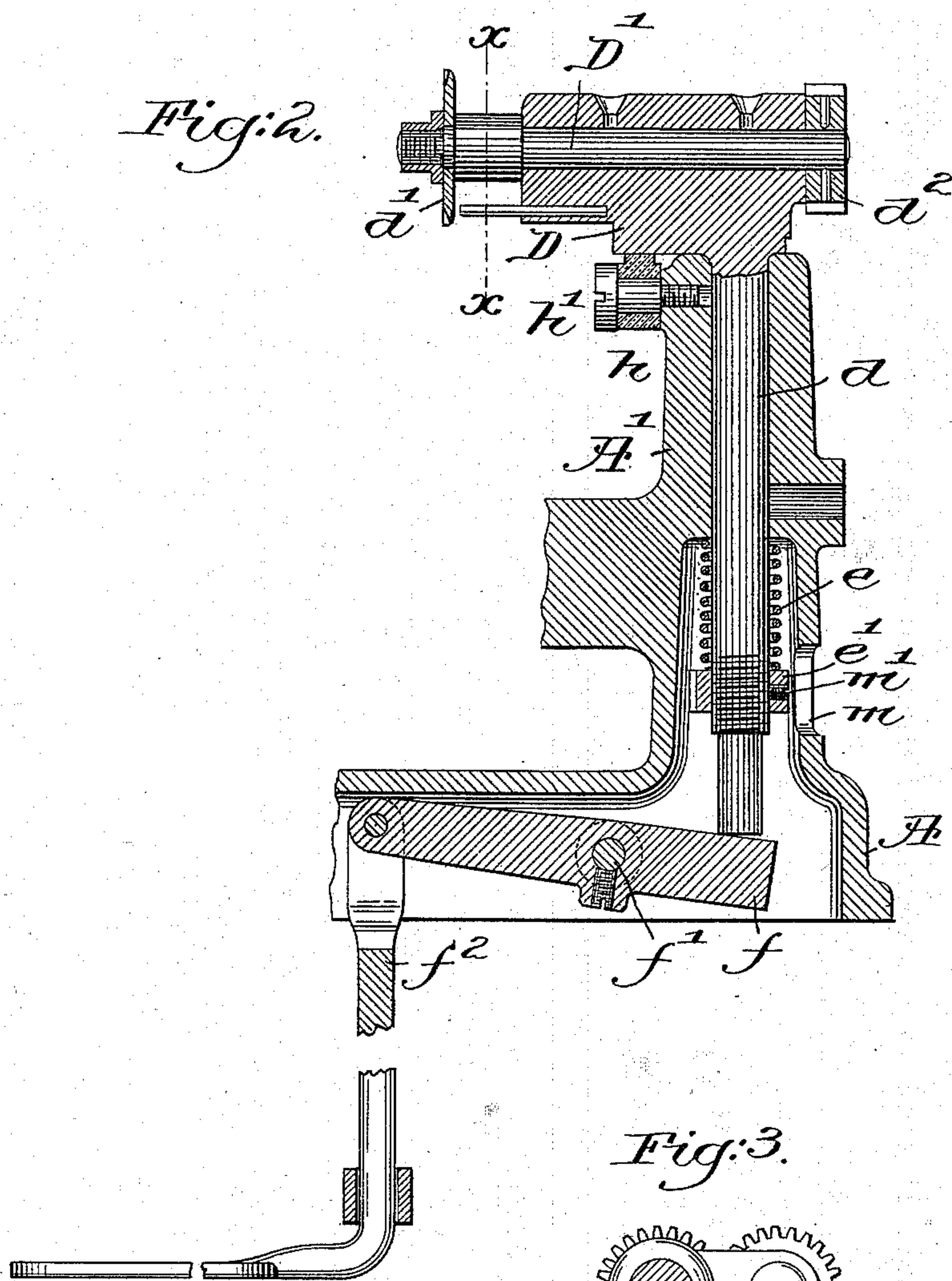
2 Sheets—Sheet 2.

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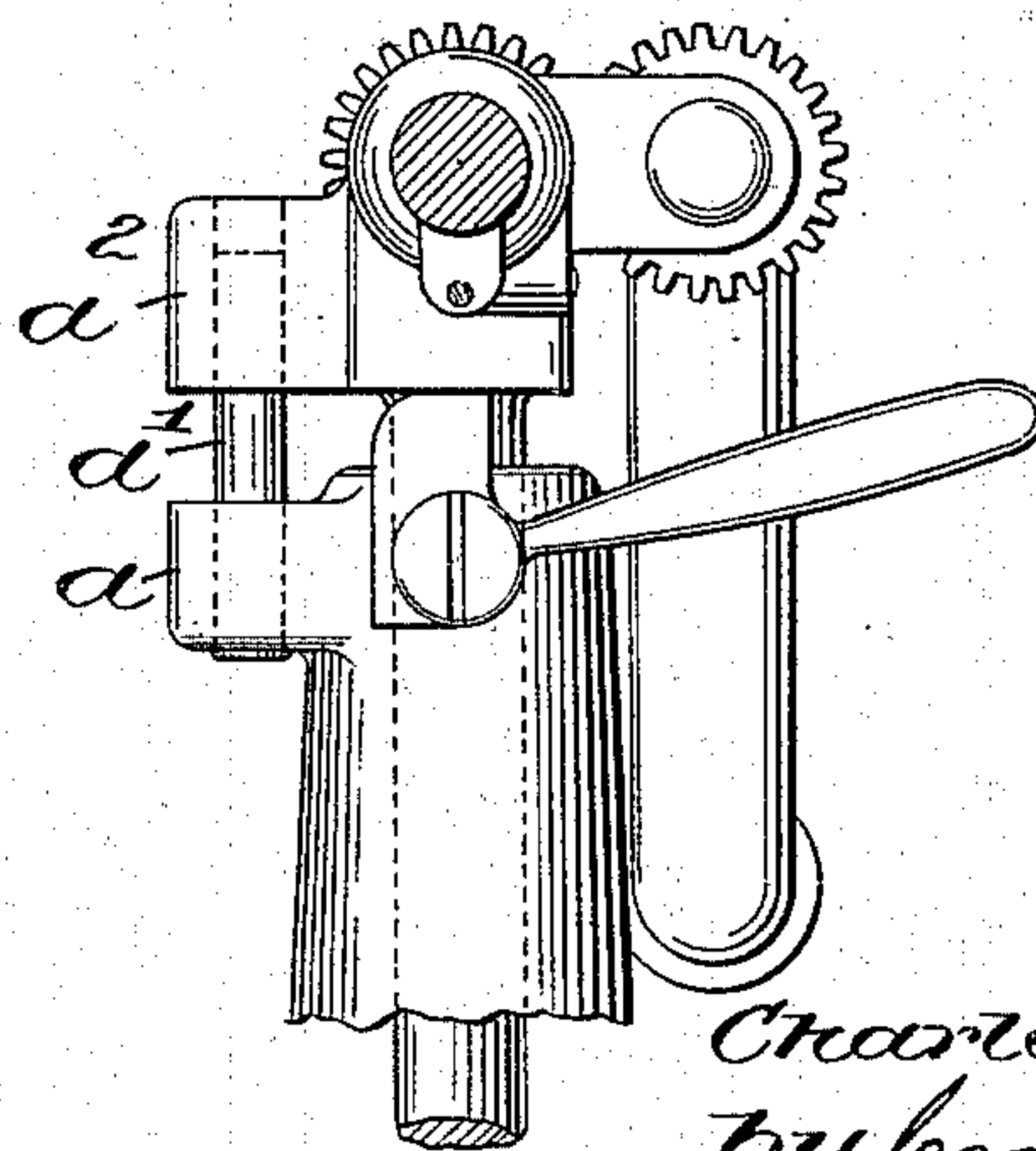
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*Fig. 2.*



*Fig. 3.*



Witnesses.

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# UNITED STATES PATENT OFFICE.

CHARLES H. BAYLEY, OF BOSTON, MASSACHUSETTS.

## PINKING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 527,928, dated October 23, 1894.

Application filed November 6, 1893. Serial No. 490,127. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. BAYLEY, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Pinking-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

In the use of pinking machines it is often necessary to pink edges which are not located at the outer edges of the work, as for instance, the edges of a vamp which meet a top, or inner edges left by removing parts of a vamp for the purposes of ornamentation, and difficulty is experienced in getting the work into the machine at just the right spot.

To enable a pinking machine to be used more effectually and efficiently I have mounted the cutter shaft of the machine in a movable head, and have combined with said head devices to lift the same and move the cutter away from the bed roll whenever the work is to be introduced, or for other purposes. The devices employed in this instance of my invention to lift the said head and cutter shaft, are a lever and a connected treadle. I have also mounted the bed roll in a novel manner so that it may be readily adjusted laterally to bring into operative position a fresh portion of the said roll, as desired.

Figure 1, in perspective shows a pinking machine embodying my invention. Fig. 2 is a sectional detail thereof, together with the treadle, on a smaller scale; and Fig. 3 is a detail to the right of the section line  $x$ , Fig. 2.

The frame-work consists essentially of a base A, having an upright post A', and an arm A<sup>2</sup> having a hub A<sup>3</sup>. The hub A<sup>3</sup> receives the screw threaded shank B of a guideway B', said shank, preferably at a point below the hub, being surrounded by a nut B<sup>2</sup>, the rotation of which effects the vertical adjustment of the said guideway, a pin B<sup>4</sup> extended from the shank and entering a slot in the hub preventing the rotation of the shank. The guideway B' is grooved for the reception of the foot  $c$  of a carriage C having bearings for the shaft or journals C' of the bed roll C<sup>2</sup>, preferably of hard rubber, raw-hide, wood or other usual material used to support leather, cloth, &c., to be pinked. The carriage has in one of its bearings a positioning pin  $c^3$ , the

inner end of which touches, or nearly so, the side of the bed roll, to thus prevent any lateral slip of said roll, and said pin is held in adjusted position by a set screw  $c^3$ .

The guideway B' has a set screw B<sup>8</sup> to lock the carriage C in the position it may be put by the operator, the adjustment of the carriage on the guideway enabling a fresh portion of the bed roll to be brought under the cutter, to be described.

The hollow post A' receives the shank  $d$  of the head D in which the cutter shaft D' has its bearings, said shaft having at one end a rotary pinking cutter  $d'$ , and at its other end a pinion  $d^2$  which is engaged by a pinion  $d^3$  on a power shaft  $d^4$ , herein shown as driven by a handle  $d^5$ , but it will be understood that the said shaft may be driven by pulleys and by mechanical power if desired. The shank  $d$  is surrounded by a spiral spring  $e$ , one end of which rests on a spring adjusting device  $e'$ , shown as a nut applied to a threaded part of the shank, rotation of said nut enabling the effective strength of said spring to be adapted to the requirements of the work under the cutter. The lower end of the shank  $d$  has co-operating with it a head-lifting device, shown as a lever  $f$  mounted on a rocking pin  $f'$ , said lever having jointed to it a suitable treadle  $f^2$ , shown only below Fig. 2, which treadle is located at or near the floor so as to be accessible to the foot of the operator, thus enabling the operator by his or her foot,—both hands being used to control the work,—to lift the head and with it the cutter, away from the bed roll, so as to put the work in just the desired position, or to start or stop the cut at the desired point.

The head has an edge guide  $g$ , the end of which rests close to the periphery of the bed roll, the said guide being held in adjusted position by a set screw  $g'$ .

To prevent the shank  $d$  from turning in the post A', I have provided the post with a lug  $a$ , holding a pin  $a'$  which enters a hole in an ear  $a^2$  forming part of the head D. When it is desired to raise the head D and keep it up, I prefer to use the hand lever  $h$  pivoted at  $h'$ .

The hole  $m$  in the post A' enables the operator to use a screw driver to loosen the set screw  $m'$ , and thereafter the adjusting device  $e'$  may be easily rotated on the shank  $d$ .



This invention is not limited to the exact shape shown for the guideway and laterally movable carriage, nor to the exact shape shown for the devices intermediate the treadle  
5 and the head carrying the cutter shaft, and it will be obvious that the shape of these connecting devices might be variously modified by the exercise of only the ordinary skill of a mechanic, and without the exercise of in-  
10 vention.

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

1. In a pinking machine, a pinking cutter,  
15 its shaft, a supporting-head for such shaft, a shank extending from said head at right angles to said shaft and rigidly connected with the said head, a guide in or with relation to which said shank may slide and thereby im-  
20 part only a vertical movement to such head in a right line, and means for raising and lowering said head and its appurtenances bodily, combined with a bed-roll having its acting face arranged in a plane parallel to the  
25 cutter shaft, the parallelism of the bed-roll and the cutter being maintained in all working positions of these parts and a plane of clear space extending around the cutter and bed-roll and beneath the cutter-shaft, where-  
30 by the cutter may be presented at right angles to the work and the work moved as exigencies require, substantially as described.

2. In a pinking machine, a pinking cutter,  
35 its shaft, a supporting-head for such shaft, a shank extending from said head at right angles to said shaft and rigidly connected with the said head, a guide in or with relation to which said shank may slide and thereby im-  
40 part only a vertical movement to such head in a right line, and means for raising and lowering said head and its appurtenances

bodily, combined with a bed-roll, a laterally movable carriage in which said bed-roll is supported, the said bed-roll having its acting face arranged in a plane parallel to the cut- 45 ter-shaft, the parallelism of the bed-roll and the cutter being maintained in all working positions of these parts, and a plane clear space extending around the cutter and bed-roll and beneath the cutter-shaft, whereby 50 the cutter may be presented at right angles to the work and the work moved as exigencies require, substantially as described.

3. In a pinking machine, the following instrumentalities, viz:—a bed roll; a vertically 55 movable head, a shank depending from said head, an adjustable nut on said shank, a post in which the shank is arranged and a spring interposed between the post and the nut on the shank normally to depress the head; a 60 rotary cutter shaft carried thereby; a pinking cutter, and a treadle and intermediate devices to lift the said head and cutter away from the bed roll, substantially as described.

4. The bed roll, the post A', the head D 65 having a shank *d* extended loosely in said head, the cutter shaft, its attached pinking cutter, and the springs surrounding said shank, and the spring adjusting device, combined with a treadle and intermediate devices to 70 act on said shank and lift the said head, a device for restraining the head from rotation, and an independent head lifting device which is capable also of holding the head in its raised position substantially as described. 75

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

CHARLES H. BAYLEY.

Witnesses:

GEO. W. GREGORY,  
M. J. SHERIDAN.