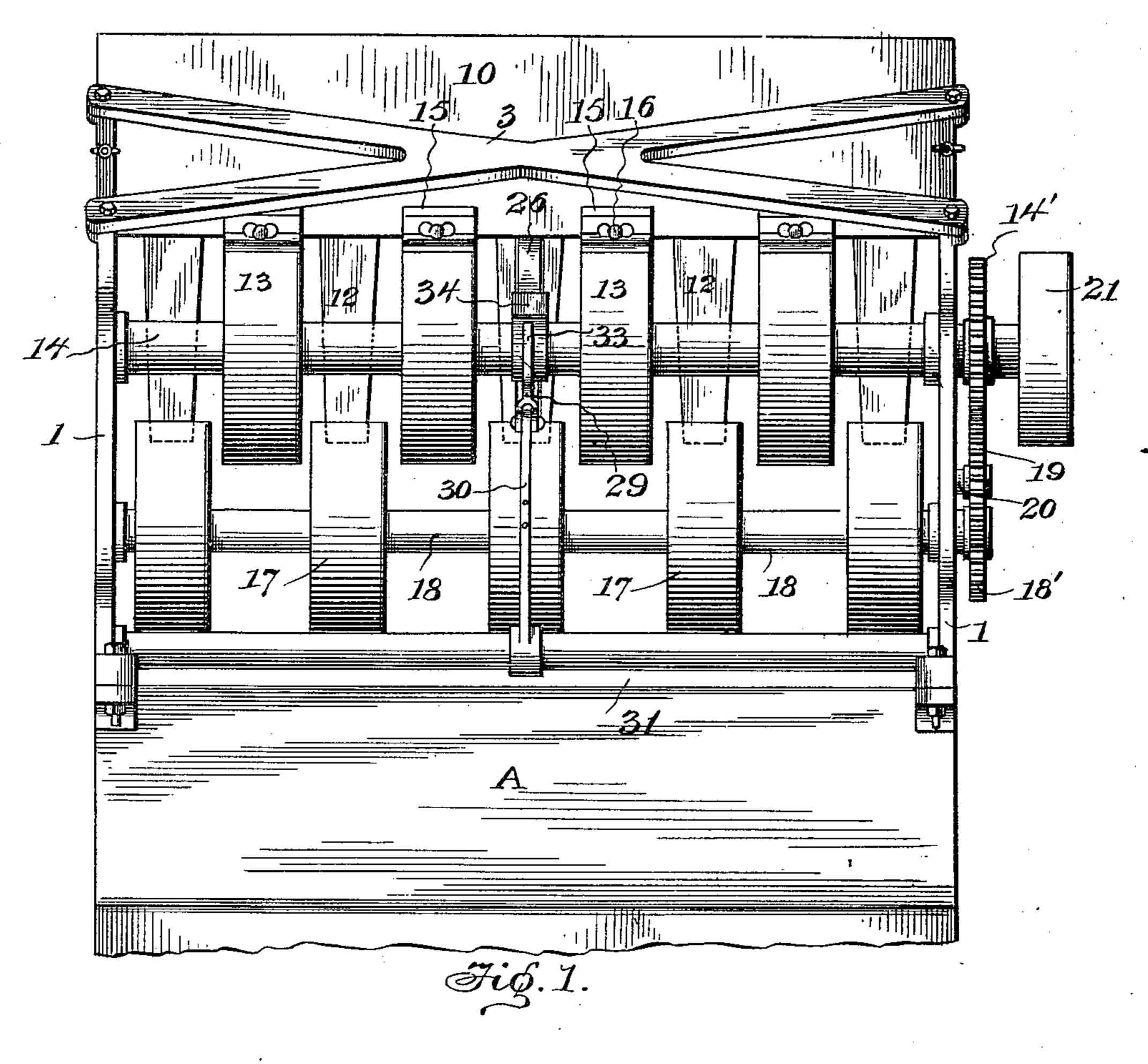
J. E. WRIGHT.

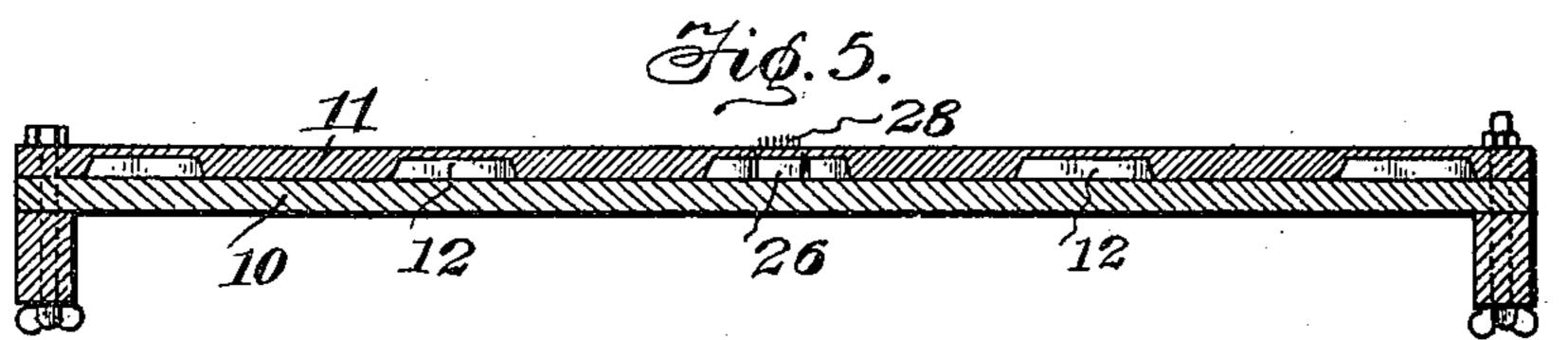
FEED MECHANISM FOR POSTMARKING AND STAMP CANCELING MACHINES.

(Application filed May 31, 1900.)

(No Model.)

2 Sheets—Sheet 1.





James Et Wright.

Fenton Steft,

Witnesses

attorneys

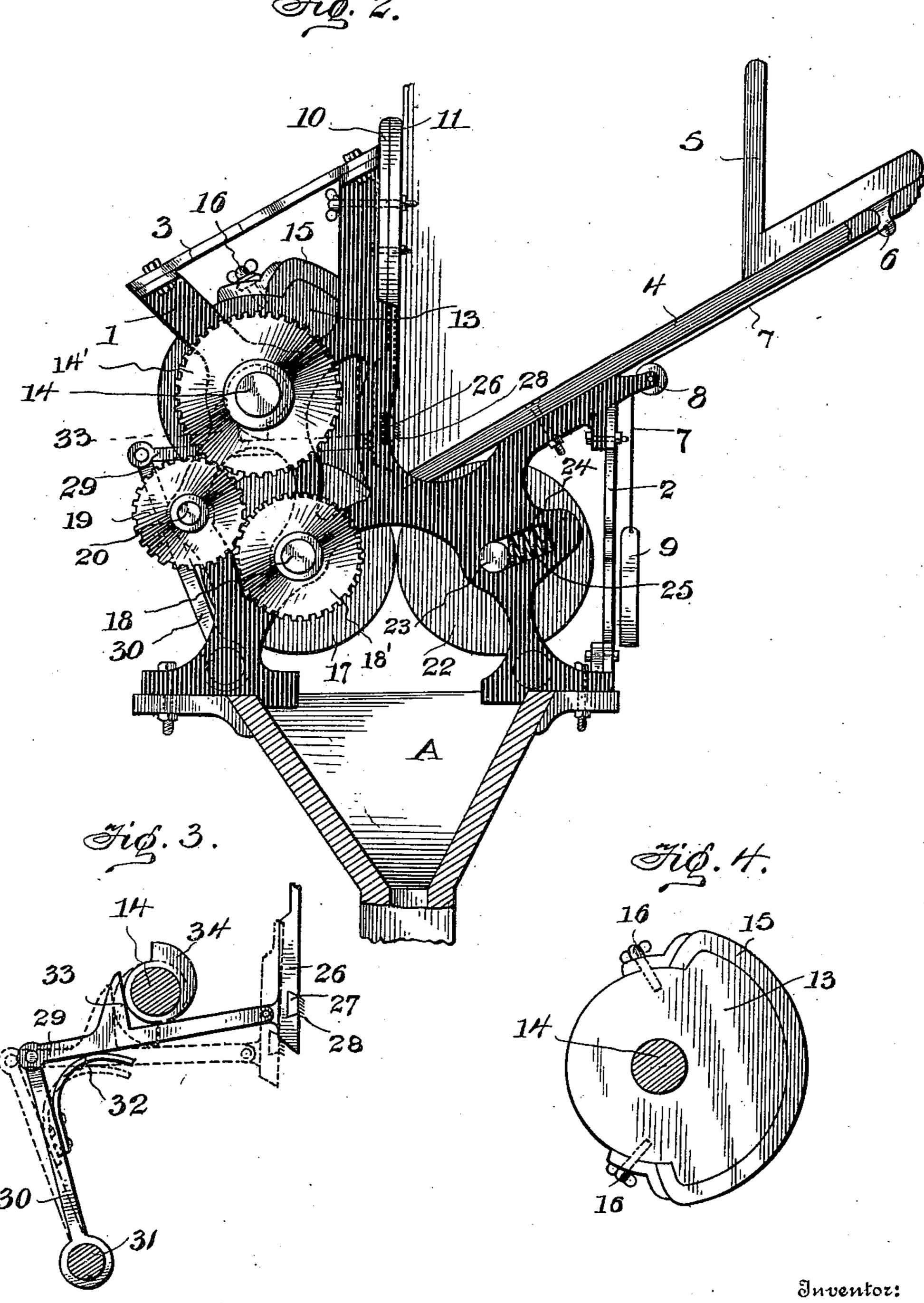
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United States Patent Office.

JAMES E. WRIGHT, OF OMAHA, NEBRASKA.

FEED MECHANISM FOR POSTMARKING AND STAMP-CANCELING MACHINES.

SPECIFICATION forming part of Letters Patent No. 667,754, dated February 12, 1901.

Application filed May 31, 1900. Serial No. 18,575. (No model.)

To all whom it may concern.

Be it known that I, JAMES E. WRIGHT, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Ne-5 braska, have invented certain new and useful Improvements in Feed Mechanisms for Postmarking and Stamp-Canceling Machines; and I do declare the following to be a full, clear, and exact description of the invention, such 10 as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to feed mechanism for postmarking and stamp-canceling ma-

chines and the like.

The object of the invention is to provide such a machine which will be comparatively simple in construction, positive in its action, and which will be applicable to any machine wherein such a device might be used.

20 With this and other objects in view my invention consists in the construction and arrangement of the parts, which will be hereinafter more fully described and claimed, reference being had to the accompanying draw-

25 ings, in which—

Figure 1 is a side view of my improved feeder, showing the same clamped to the upper end of the chute of a postmarking and stamp-canceling machine. Fig. 2 is an end 30 elevation of the same. Fig. 3 is a vertical transverse section through the needle-bar and its actuating mechanism. Fig. 4 is a detail plan view of one of the feed-rollers. Fig. 5 is a detail sectional view of a portion of the 35 spring-finger-clamping bars.

In the drawings, A denotes the upper end of the chute of a postmarking and stamp-can-

celing machine.

1 denotes the supporting-frame of my im-40 proved feeder, and 2 and 3 denote braces for

supporting the parts of said frame.

4 denotes the inclined feed-table, bolted to a portion of the frame 1. 5 denotes a follower-block which is adapted to slide upon 45 said table 4 and is provided on its lower side with a depending lug 6, which is attached to one end of a cord 7. Said cord passes over the guide-pulley 8, journaled in a portion of the frame 1, and is provided on its lower end 50 with a weight 9.

10 and 11 denote clamping-bars bolted to the upper portion of the frame 1 and adapted | to clamp between them a series of vertically-

disposed spring guide-fingers 12.

. 13 denotes a series of eccentrically-mounted 55 feed-rollers fixed on a horizontally-arranged shaft 14, journaled in the sides of the frame 1. The rollers 13 have feed-segments upon their peripheries, which are provided with rubber contact-plates 15, which are suitably 60 clamped thereto by means of the clamps 16, bolted to the rollers 13.

17 denotes a second series of feed-rollers fixed to a shaft 18, extending parallel with the shaft 14 and having its ends journaled in the 65

side pieces of the frame 1.

Upon one end of the shafts 14 and 18 are fixed spur gear-wheels 14' and 18'. 19 denotes idle spur gear-pinion mounted upon a studshaft 20, fixed in the side of the frame 1 and 70 adapted to mesh with the said spur gearwheels 14' and 18'.

21 denotes a band-pulley fixed upon the extreme outer end of the shaft 14, and from which may extend a cord or belt to a driven 75 portion of the stamp-canceling machine.

22 denotes a series of feed-rollers fixed upon a shaft 23, loosely mounted in bearings 24 in the sides of the frame 1. The said bearings 24 consist of an elongated slot, in which is 80 fixed a coil-spring 25, the tension of which is exerted to press said shaft 23 and rollers 22 against the parallel set of rollers 17, hereinbefore described.

26 denotes a vertically-disposed needle-bar 85 having a sliding engagement between the clamping-plates 10 and 11 and provided near its lower end with a detachable block 27, in which are fixed downwardly-inclined needlepoints 28, which are adapted to engage the 90 letters or other articles to be fed.

29 denotes a bar having one end pivoted to the needle-bar 26, being pivoted at its other end to an inclined bar 30, mounted upon a transverse bar 31, fixed in the sides of the 95 frame 1.

32 denotes a spring interposed in the angle formed by the meeting ends of the bars 29 and 30 and which is adapted to force the bar 29 and the needle-bar 26 upwardly.

33 denotes a lug formed upon the upper side of the bar 29.

34 denotes a cam-wheel fixed upon the shaft 14 and being arranged so that upon the revolution of the said shaft 14 the cam 34 will come in contact with the bar 29, thereby forcing the same, together with the bar 26, downwardly. A further movement of the cam 34 will engage the lug 33, pushing the same and the bar 29 backwardly, rocking the bar 30 upon the rod 31 and at the same time drawing the bar 26 rearwardly, thereby disengaging the needles from their engagement with the letter. The bar 26 is formed of springsteel metal and is sufficiently resilient to be drawn out of engagement with the letter by the mechanism hereinbefore described.

The operation of my device is as follows:

The stack or bunch of letters to be fed into the chute of the canceling-machine are placed in the proper position upon the table 4 and the follower-block 5 is adjusted against the same. The machine now being set in operation, the feed-rollers 13 will be caused to rotate, and as their cam-faces come in contact with the letter the same is forced downwardly. The letter is then gripped by the needles 28, and through the mechanism, hereinbefore described, is forced farther downward and between the lower set of feed-rollers 17 and 22, by which the same is fed into the chute of the canceling-machine.

Any suitable means may be employed for 30 clamping the frame 1 upon the upper end of the chute; but the construction herein shown

is the preferred one.

While I have shown and described my feeding device in the best manner known to me at the present time, it is obvious that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

In a feed mechanism of the class described,

the combination of a supporting-frame adapt- 45 ed to be clamped to the feed-chute of a postmarking and stamp-canceling machine, a series of cam-shaped upper feed-rollers fixed upon a horizontally-disposed rotating shaft mounted in said frame, a series of verti- 50 cally-disposed guide-fingers arranged between and alternating with said series of upper feed-rollers, an inclined feed-table, a follower-block having a sliding engagement with said table and adapted to be drawn 55 forwardly along said table by means of a weight and cord passing over a pulley, two parallel series of lower feed-rollers, one series of which has a yielding engagement with the other, a vertically-disposed, reciprocat- 60 ing feed-bar, a detachable block containing needle-points carried by said feed-bar to cause said feed-bar to positively engage the matter to feed the same to the said parallel series of lower feed-rollers, a cam-roller mount- 65 ed upon a driven shaft and adapted, upon revolution of said shaft, to strike an arm pivoted to said feed-bar, thereby moving said bar downwardly, a lug fixed upon said arm in the path of said cam-roller, and adapted 70 to be engaged and moved laterally by said cam, thereby springing said flexible feed-bar out of engagement with said matter, an arm mounted on a transverse rod fixed in said frame, and adapted to pivotally support the 75 outer end of the aforesaid arm, a spring confined between said arms and adapted to raise the first-mentioned arm and the feed-bar when released by said cam-roller, substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JAMES E. WRIGHT.

Witnesses:
ALFRED ARNEMANN,
ARTHUR E. BALDWIN.