

No. 854,826.

PATENTED MAY 28, 1907.

C. E. JOHNSON.  
ENVELOP FEEDER.

APPLICATION FILED JULY 6, 1908.

2 SHEETS--SHEET 1.

Attorneys

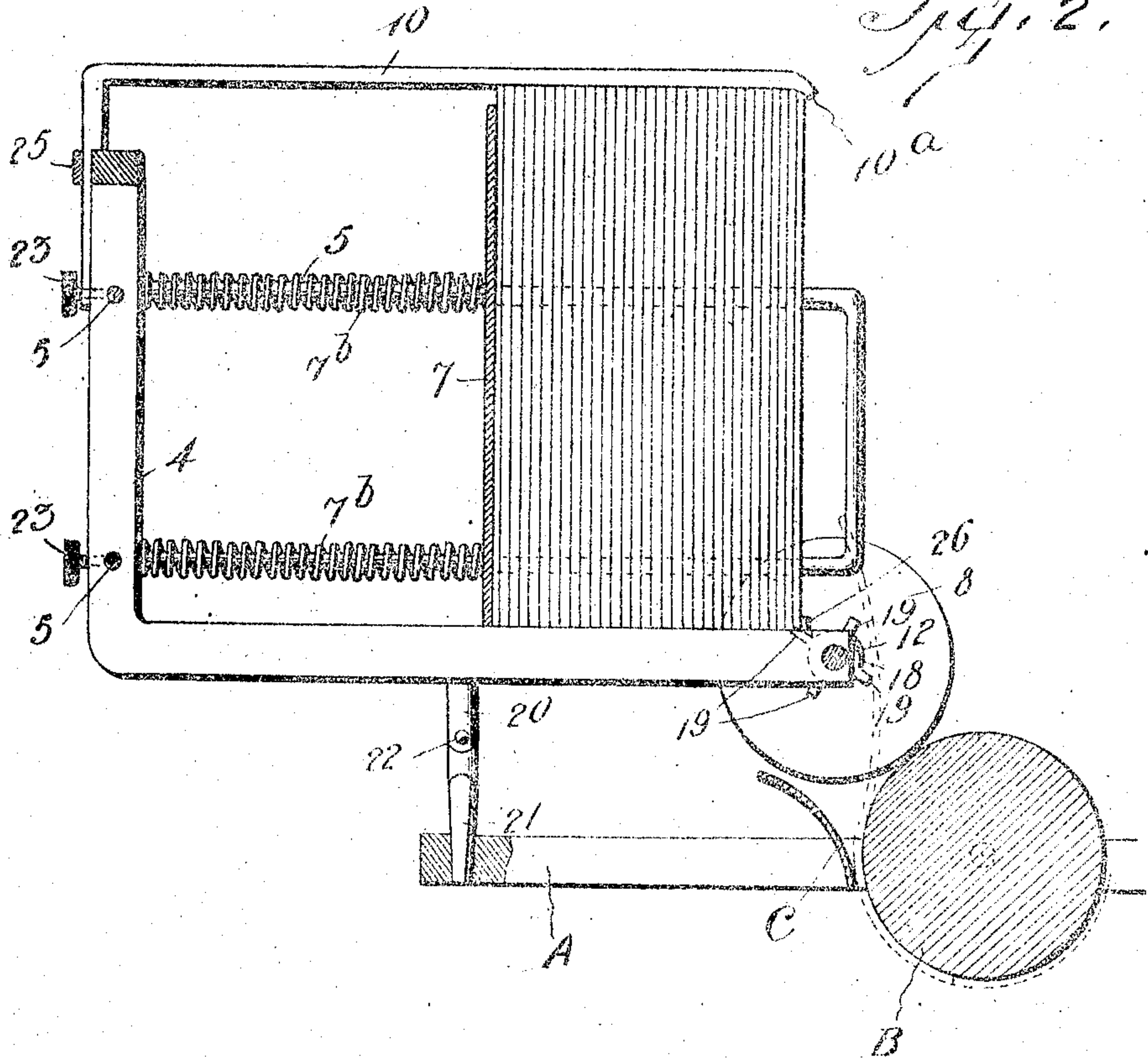
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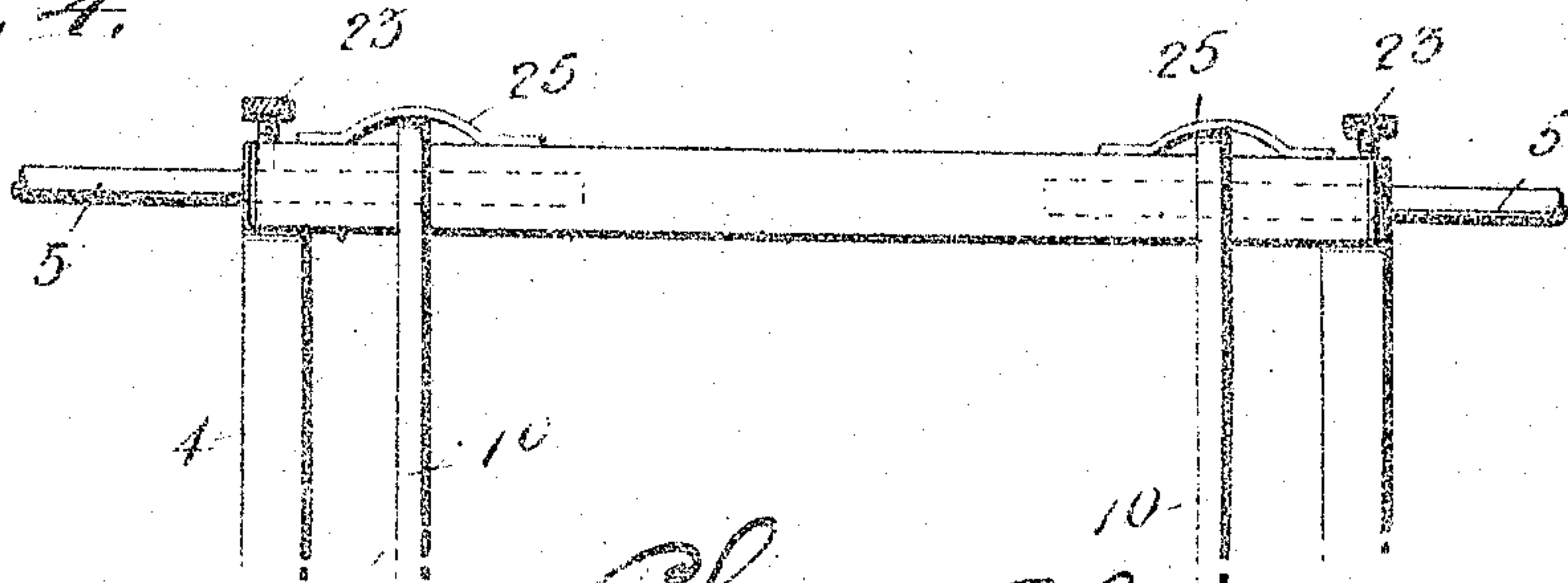
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*Fig. 4.*



Charles E. Johnson, Inventor

Witnesses

*J. E. Johnson*  
*G. E. Johnson*

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# UNITED STATES PATENT OFFICE.

CHARLES E. JOHNSON, OF CLEVELAND, OHIO.

## ENVELOP-FEEDER.

No. 854,826.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed July 6, 1906. Serial No. 325,005.

*To all whom it may concern:*

Be it known that I, CHARLES E. JOHNSON, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Envelop-Feeders, of which the following is a specification.

This invention is a feeding attachment for typewriters, particularly adapted and constructed for feeding envelopes successively to the machine.

It embodies a rack or holding device mounted upon the carriage and having devices which are actuated by the rotation of the platen to feed envelopes one by one into position for writing. Means are provided for quickly and easily throwing the attachment in or out of operation. The holder is adjustable to receive envelopes of various sizes.

The invention is illustrated in the accompanying drawings, in which Figure 1 is a perspective view thereof removed from the typewriting machine. Fig. 2 is a vertical cross section showing the attachment applied to the carriage of the machine. Fig. 3 is a detail of one of the brackets which support the device on the carriage. Fig. 4 is a detail in top plan of the rear part of the device.

Referring specifically to the drawings, A indicates the carriage of the typewriting machine, B the platen, and C the paper guide. The device forming the subject of this invention is mounted upon the carriage and is movable therewith.

The main frame of the envelop holder is indicated at 4, comprising parallel bars having upright portions at the rear end connected by a cross bar, forming an angular frame on which the other parts are mounted. This frame is supported by hinged brackets consisting of upper portions 20 screwed into the under side of the bars 4, and lower angular portions 21 which are hinged to the upper portions, as at 22. The lower ends of the parts 21 are arranged to fit in holes in the side bars of the carriage, to support the attachment upon the same. The hinges 22 allow the frame to rock to a limited extent, the hinges being sufficiently tight so that the attachment will stay as set. The rocking referred to throws the attachment in or out of operation as will be hereinafter described.

At 5 are indicated angular side bars the free ends of which extend inwardly through holes in the upright portions of the bars 4,

where they are fixed by set screws 23, so that said side bars can be adjusted in or out and set to hold envelopes of any length.

Top bars are indicated at 10, having at the rear ends downwardly-extending portions which are yieldingly clasped under spring strips 25 secured to the cross piece of the frame 4, and said bars can be raised or lowered to accommodate envelopes of various heights. At their front ends the bars are provided with stops 10<sup>a</sup> which act to engage and hold the first envelop at the upper edge thereof.

Mounted in bearings in the front ends of the bars 4 is a shaft 12 which has at its ends friction rollers 8 which, when the device is in operation, bear upon and are rotated by contact with the platen of the machine. The shaft also carries releasing devices, each of which consists of a disk 18 having radial fingers 19, and the releasing devices are preferably located on the shaft adjacent to the ends of the bars 4. The ends of said bars have on their upper side projections 26 against which the first envelop stops.

To advance the envelopes toward the releasing devices at the front of the arms, a plate 7 is provided, resting upon the horizontal portions of the bars 4 and supported at the ends by the side rods 5 which fit in slots 7<sup>a</sup> in the ends of the plate. On the rods, between the plate and the inwardly-extending rear ends of the rods, are coiled springs 7<sup>b</sup>, which press against the plate, and tend to force the same forwardly.

The envelopes are placed in the frame formed by the bars 4, 5 and 10, with the first envelop, that is, the one at the front, bearing against the projection 26 and the stops 10<sup>a</sup>, and with the plate 7 pressing against the bunch. The length of the fingers 19 is such that they will just reach the lower edge of the first envelop, that is, the one against the projections 26. The wheels 8 being in frictional contact with the platen, turn of the latter causes the wheels and shaft 12 to turn, and the fingers 19 engage the first envelop and lift the same, carrying its lower edge over the projections 26 and beyond the ends of the bars 4, thereby releasing said envelop and allowing it to drop between the platen and the paper guide, whence it may be fed to the machine in the usual way. The springs 7<sup>b</sup> advance the pack so that another envelop takes the place of the one released in readiness for the next operation.



As stated, the attachment as a whole rocks or tilts on the hinges 22, and when tilted forward the wheels 8 are in contact with the platen, in readiness for the operation above described. When the attachment is tilted back on said hinges, the wheels 8 are lifted from the platen, and consequently do not operate while the attachment remains in that condition. A simple movement of the hand is sufficient to tilt the attachment up or down to throw it in or out of operation. The size of the wheels is made so that the normal rotation of the platen will cause the envelopes to be fed successively. The attachment, being supported upon the carriage, does not prevent it from being lifted or otherwise manipulated.

I claim:

1. An envelop feeder for typewriting machines, comprising an envelop holder mounted on the carriage of the machine and having an open front end over the platen thereof and stops in the bottom, at said end, a rotary shaft extending across below the bottom of the holder and under said open end, having projections extending above the bottom and adapted to successively engage and lift envelopes over the stops when it is turned, and connections between the shaft and the platen, to turn the former when the latter is turned.

2. An envelop feeder for typewriting machines, comprising a holder having top and bottom bars and open at the front end, said bars being provided with stops at said end to engage and hold envelopes between the bars, means to force the envelopes against said stops, a rotary shaft located at the front end of the lower bars under the bottom of the holder and having fingers projecting therefrom arranged to lift the envelopes successively over the stops on the lower bars and over the shaft, and means to turn the shaft.

3. An envelop holder for typewriting machines, including parallel bottom bars mounted on the frame of the machine and having uprights at the rear connected by a cross bar, and stops at the front, angular side bars having ends extending inwardly through holes in said uprights and adjustable therein, and top bars having downwardly extending portions at their rear ends adjustably connected to said cross bar, and having stops at their front ends.

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

CHARLES E. JOHNSON.

Witnesses:

JOHN A. BOMMARDT,  
SHIRLEY J. BOMMARDT.