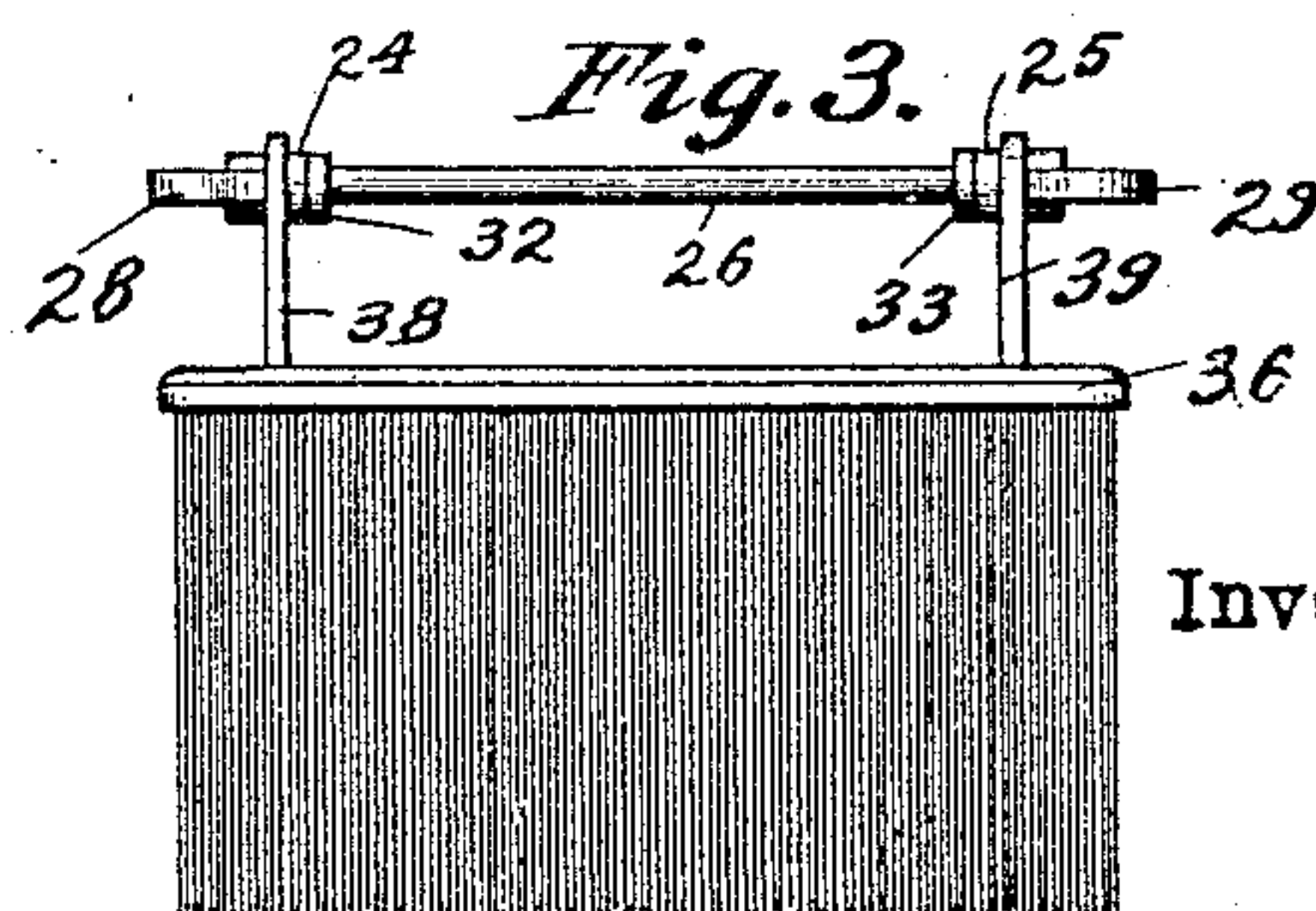
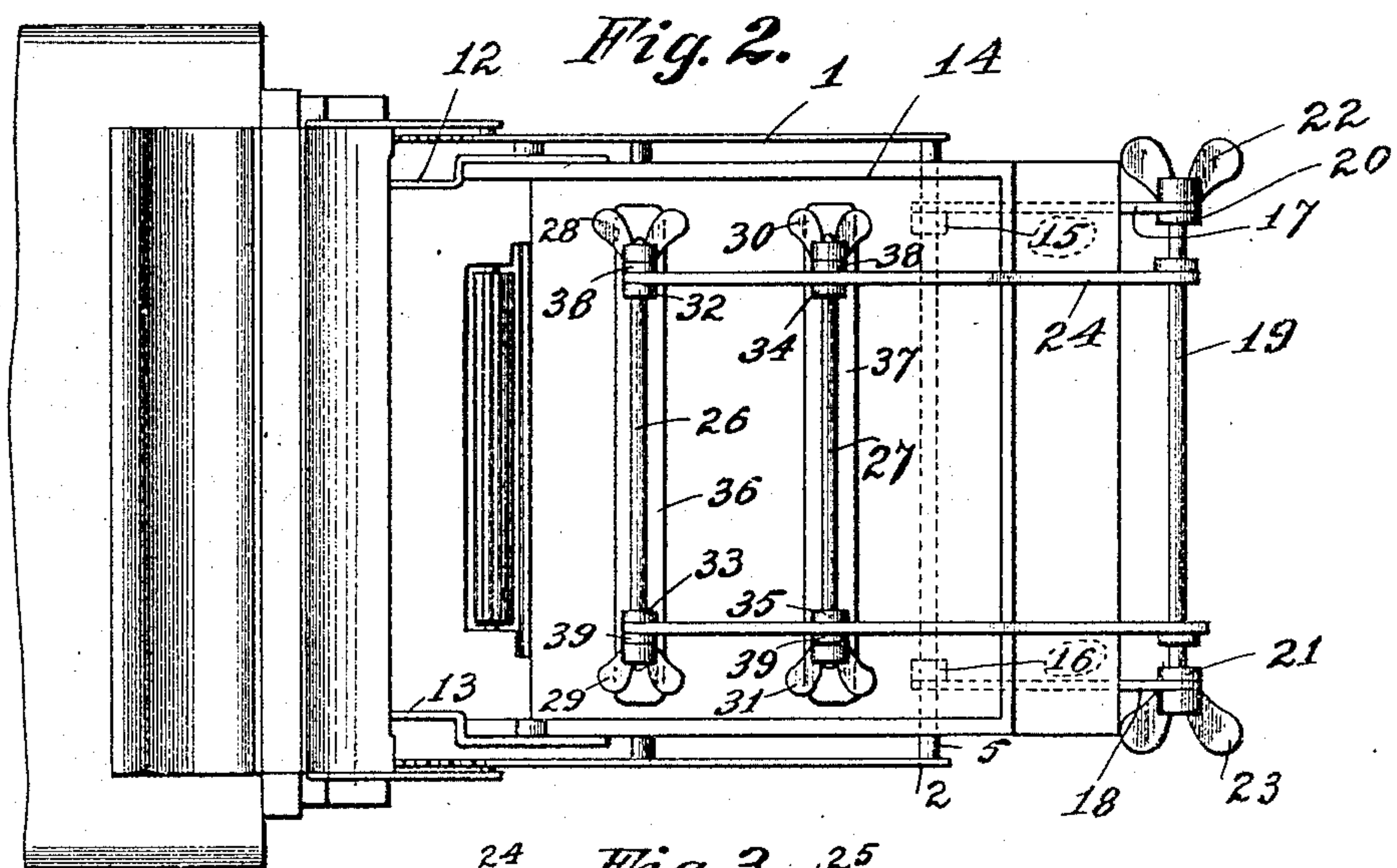
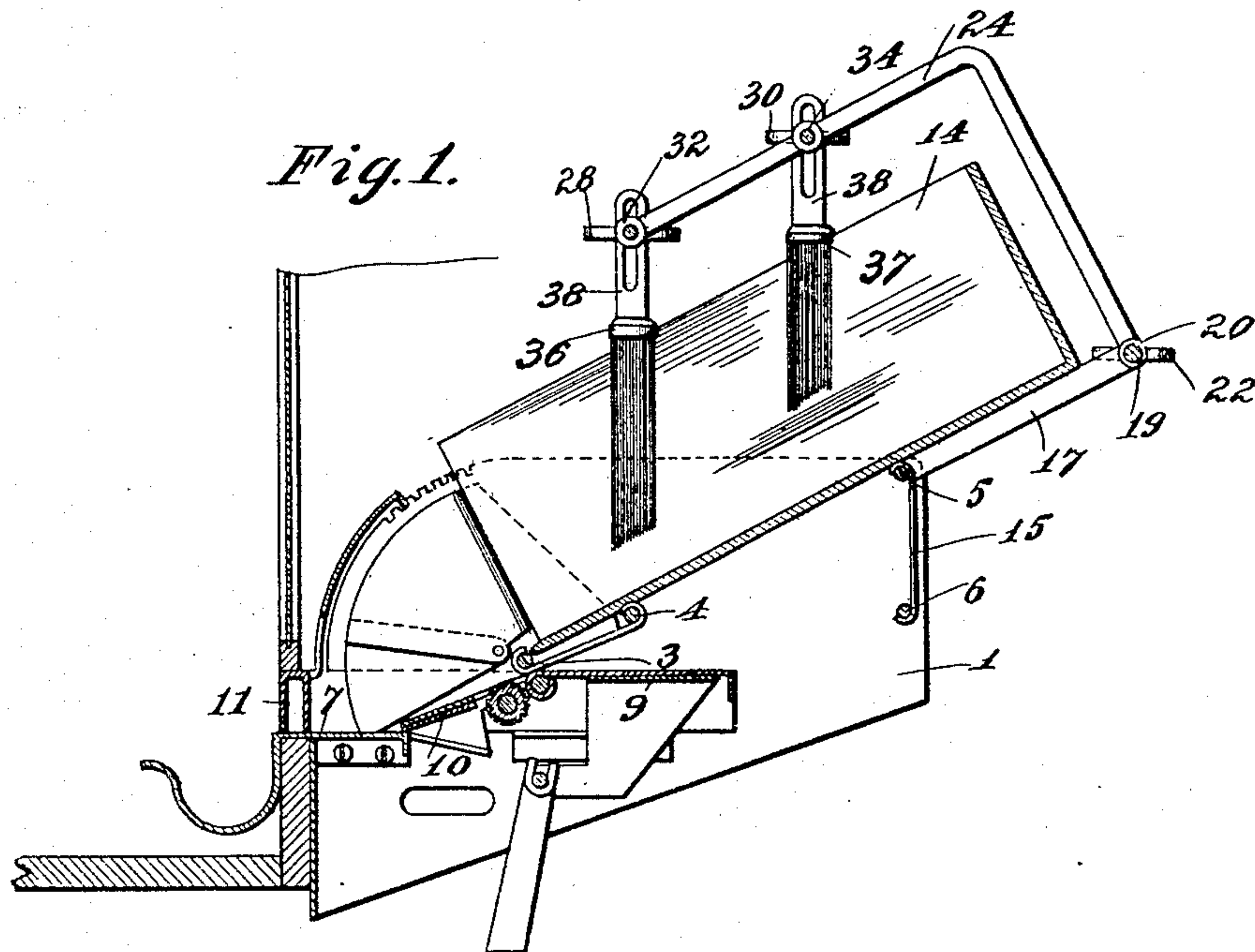


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No. 791,224.

PATENTED MAY 30, 1905.

L. C. SPOONER.  
CIGAR VENDING MACHINE.  
APPLICATION FILED JULY 18, 1904.



Witnesses:

*Fred P. Reines,*  
*J. B. Megown.*

Inventor: *L. C. Spooner*

By *Carr & Carr,*  
Attorneys.



## UNITED STATES PATENT OFFICE.

LEE C. SPOONER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE PETER MANUFACTURING COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

## CIGAR-VENDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 791,224, dated May 30, 1905.

Application filed July 18, 1904. Serial No. 217,051.

*To all whom it may concern:*

Be it known that I, LEE C. SPOONER, a citizen of the United States, and a resident of the city of St. Louis and State of Missouri, have invented a new and useful Improvement in Cigar-Vending Machines, of which the following is a specification.

My invention relates to vending-machines, and especially to machines for vending cigars.

It has for its principal object to provide means to prevent the cigars turning about a transverse axis as they move down to the delivery-slot of the machine.

My invention consists in the parts and in the arrangements and combinations of parts hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, and wherein like symbols refer to like parts wherever they occur, Figure 1 is a longitudinal sectional view through the improved delivery mechanism of a vending-machine. Fig. 2 is a plan view of the delivery mechanism, and Fig. 3 is a front view of one of the brushes.

In vending cigars it is necessary to deliver the cigars from the box, and thus the cigars in the rear end of the box are compelled to roll a considerable distance to reach the delivery-slot. In the course of this movement cigars will occasionally turn about a transverse axis. Thus when they arrive at the delivery-slot they lie at an angle thereto instead of parallel therewith, as they should in order to be ejected without injury.

It is the principal object of my invention to overcome this difficulty and insure that the cigars shall be parallel with the direction of the delivery-slot.

The invention is capable of being applied to any cigar-vending machine and is not limited in use to the particular mechanism with which it is shown in the accompanying drawings by way of illustration.

The delivery mechanism has a frame consisting of side plates 1 2, connected by rods 3 4 5 6 and a plate 7. This frame is secured in the case 8 of the machine, a fragment of

which is shown. Within the frame is reciprocatingly mounted a delivery-slide consisting of a plate 9, an oscillating plate 10, and a delivery-slot-closing member 11. Normally the latter lies in the slot in the front of the case through which the cigars are ejected by the delivery-slide. Guides 12 13 are mounted on the rods 3 4 and are provided with shoulders against which a cigar-box 14 may rest. The cigar-box 14, having one end parallel with the length of the cigars removed, is placed upon the rods 4 5, which are in the same inclined plane as the rod 3. The cigars can then roll down toward the delivery-slide and the delivery-slot.

The rod 6 is arranged in the vertical plane of the rod 5, and upon the two rods the straightening device is mounted. Snap-slides 15 16 are mounted on the rods 5 6. To them arms 17 18 are rigidly secured so as to lie in the plane of the rods 3 4 5. Thus the arms serve to support the rear end of the cigar-box. Through the rear ends of the arms 17 18 a rod 19 extends. Inside of the arms the rod is provided with collars 20 21 and outside of the arms it is screw-threaded and provided with winged nuts 22 23. This arrangement permits the rod 19 to be turned in the arms 17 18 and to be fixed in any position. Bent arms 24 25 are rigidly secured to the rod 19 and extend forwardly over the box 14. The arms are preferably bent at substantially a right angle. At their extreme forward ends and between that point and their angles the rods are provided with eyes, through which rods 26 27 extend. The ends of the rods are screw-threaded and provided with winged nuts 28 29 30 31. Collars 32 33 34 35 are fixed on the rods inside of the arms 24 25. These rods are provided to support brushes 36 37, each of which has two slotted handles 38 39, through the slots of which the rods 26 27 extend. The brushes may thus be raised and lowered and clamped in position by the winged nuts. The brushes are made of comparatively long flexible bristles and are nearly as long as the box is wide. The



brushes are adjusted so that their lower ends are a little nearer the bottom of the box or the next lower layer of cigars than the diameter of a cigar. Thus as a cigar rolls under the brush it is retarded. If one end is in advance of the other, that end will come in contact with the brush first and will be retarded, while the opposite end continues to move freely. The cigar will thus be turned, and when it passes from beneath the brush it will lie parallel to the brush which is parallel to the delivery-slot. The brushes also serve as baffles to prevent the cigars rolling down too rapidly. Thus any tendency to choke up the space in front of the box is overcome. The brushes may be adjusted simultaneously by turning the arms with the rod and clamping them in the desired position by means of the nuts 22 23. This is a convenient mode of adjustment when it is desirable to change the adjustment of brushes on account of the varying number of cigars in a box.

Obviously my device is capable of modification within the scope of my invention, and therefore I do not wish to be limited to the specific construction shown and described.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a vending-machine, delivery mechanism comprising a frame adapted to receive the box containing the articles to be delivered, arms mounted on said frame and supporting one end of the box, and means mounted on

said arms to arrange the articles in proper position to be delivered.

2. In a vending-machine, delivery mechanism comprising a frame adapted to receive the box containing the articles to be delivered, arms mounted on said frame and supporting one end of the box, and means adjustably mounted on said arms and in the path of the articles to be delivered to arrange the articles in proper position to be delivered.

3. In a vending-machine, delivery mechanism comprising a frame adapted to receive the box containing the articles to be delivered and flexible baffles adjustably mounted on said frame and in the path of the articles.

4. In a vending-machine, delivery mechanism comprising a frame, adjustable arms mounted on said frame, and a brush depending from said arms into the path of the articles to be delivered.

5. In a vending-machine, delivery mechanism comprising a frame, adjustable arms mounted on said frame, and an adjustable brush on said arms projecting into the path of the articles to be delivered.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, at St. Louis, Missouri, this 16th day of July, 1904.

LEE C. SPOONER.

Witnesses:

FRED F. REISNER,  
JULIA B. MEGOWN.