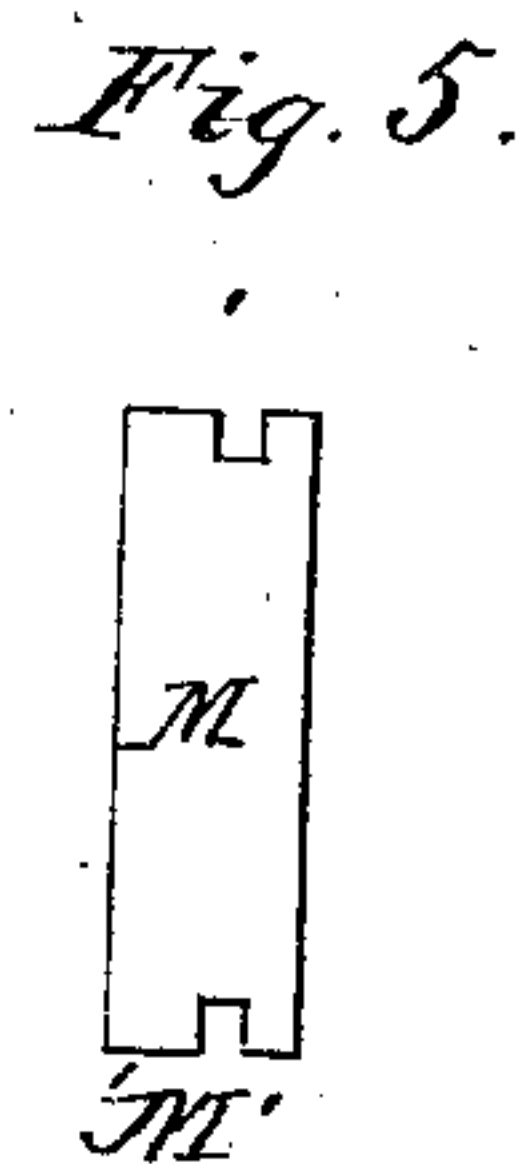
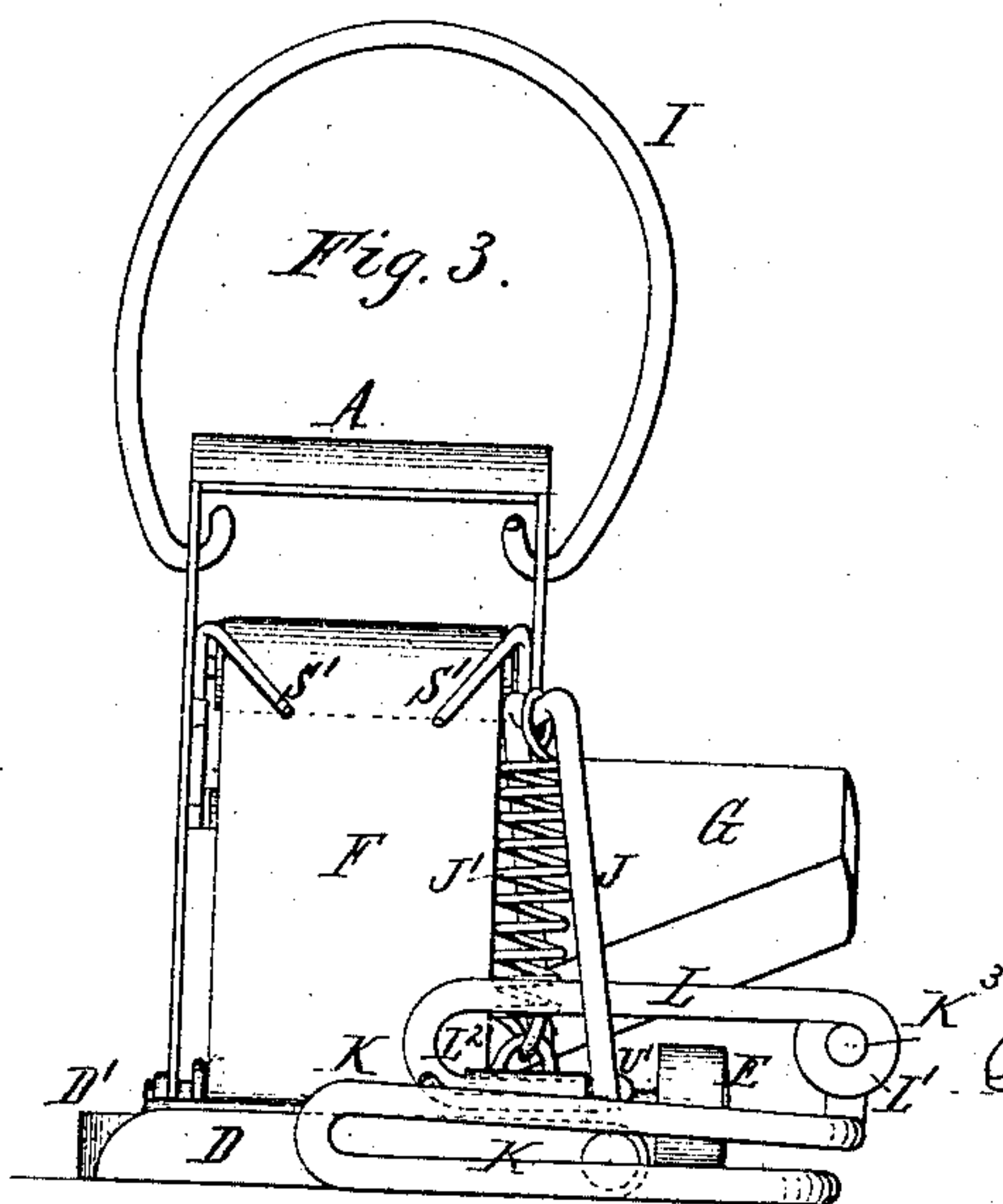
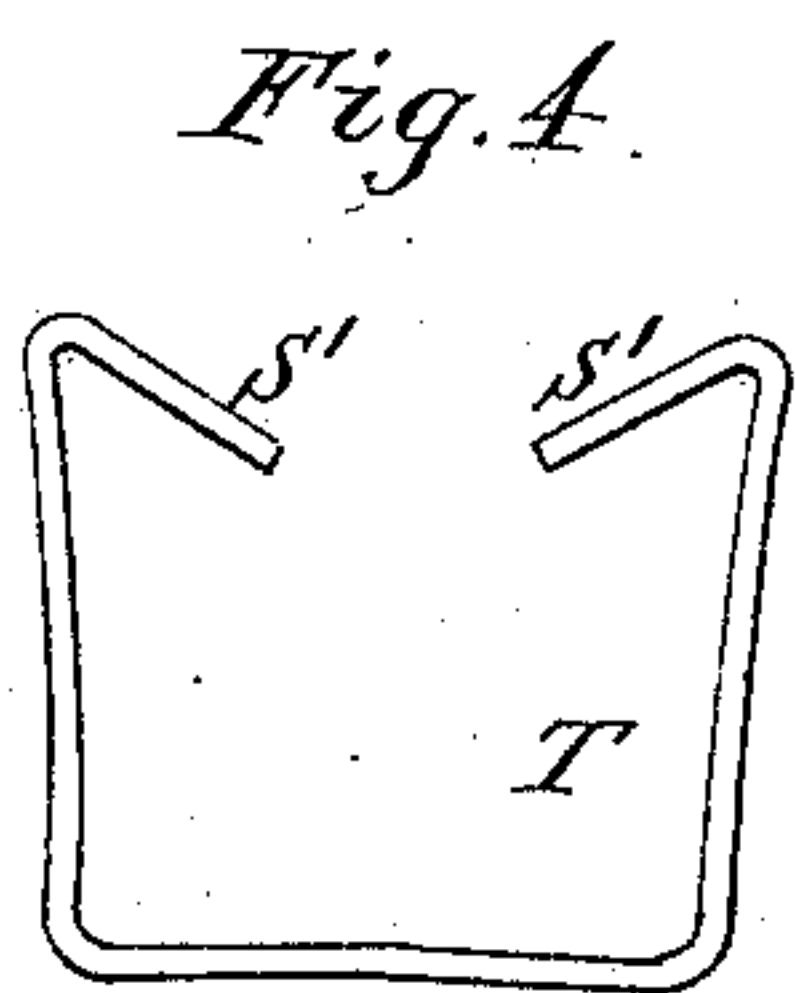
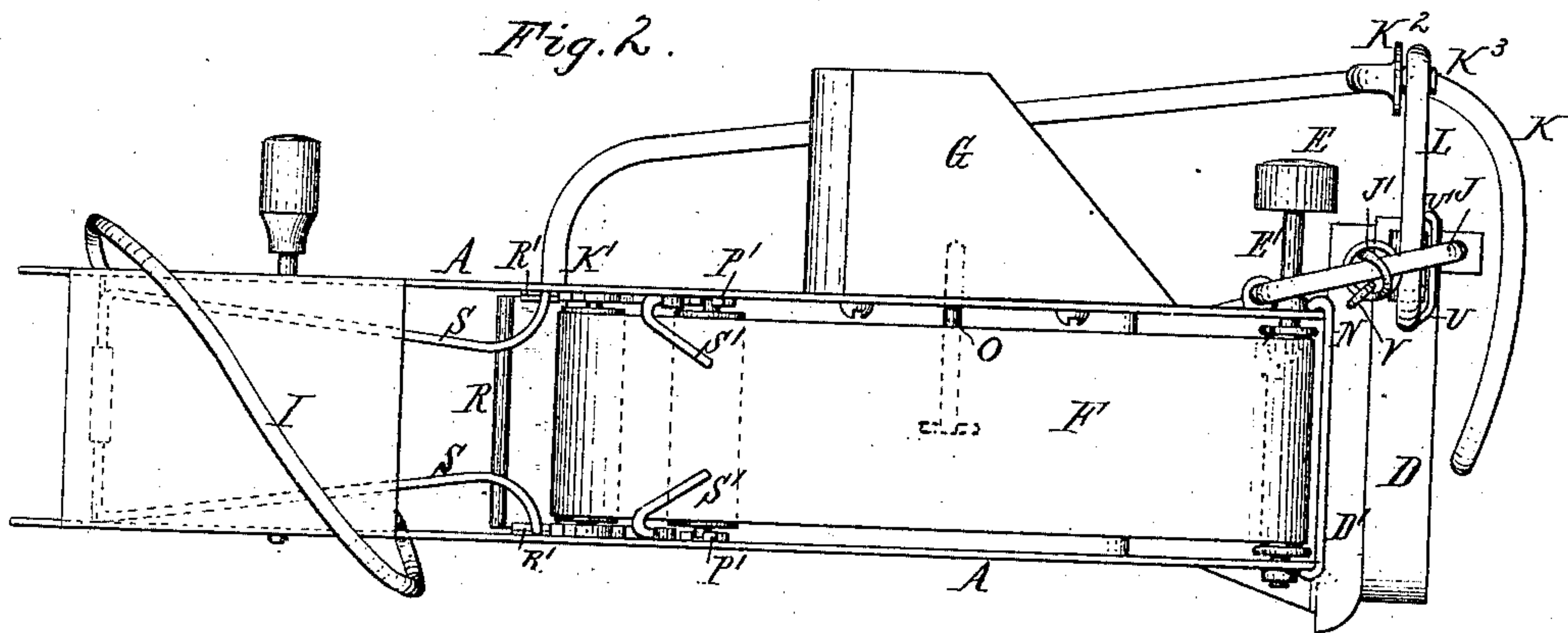
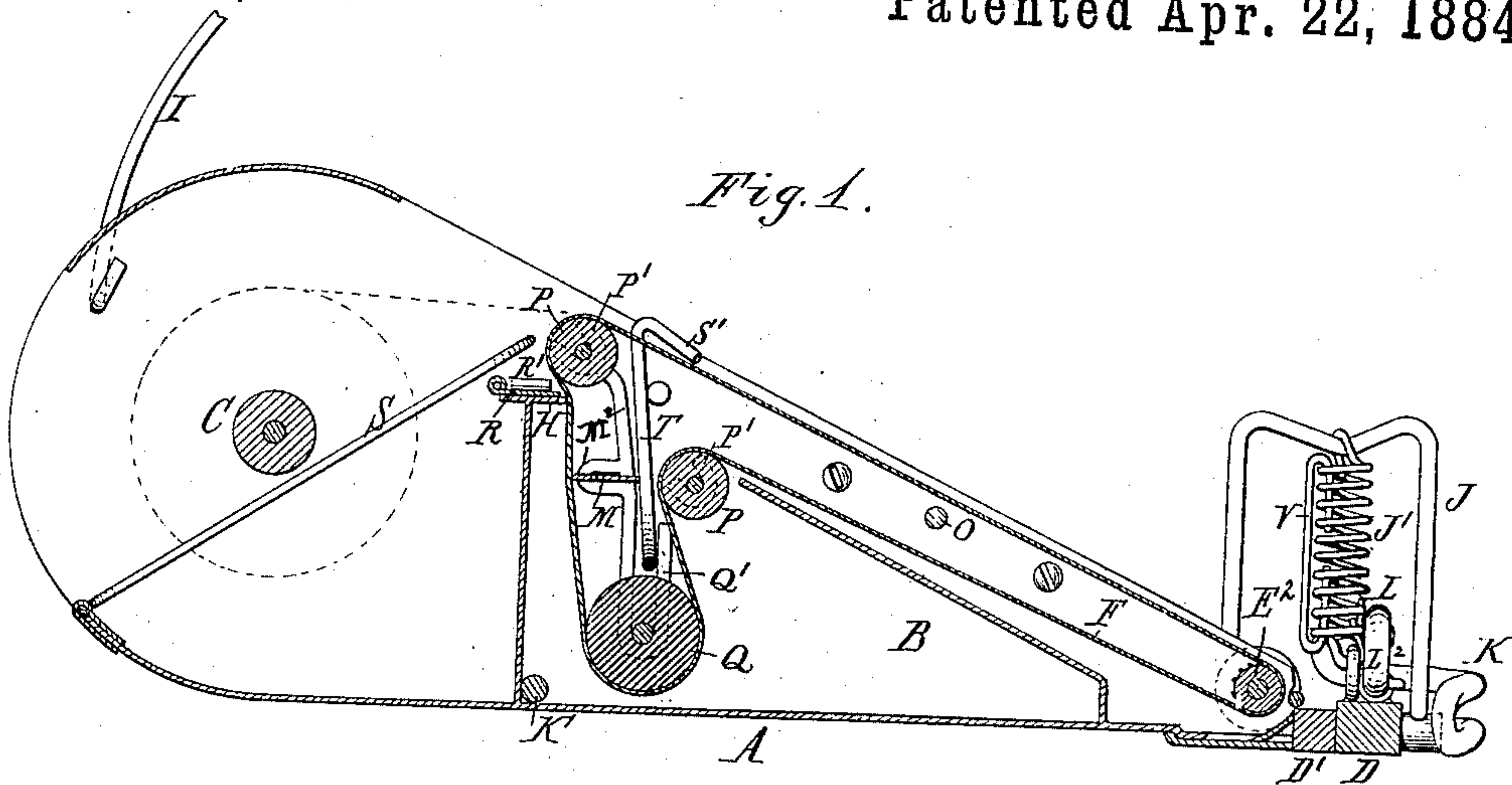


(Model.)

R. DICK.
MAILING MACHINE.

No. 297,116.

Patented Apr. 22, 1884.



Chas. F. Geyer
Edw. J. Brady
Witnesses.

Robert Dick
Inventor.

UNITED STATES PATENT OFFICE.

ROBERT DICK, OF BUFFALO, NEW YORK.

MAILING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 297,116, dated April 22, 1884.

Application filed March 2, 1882. (Model.)

To all whom it may concern:

Be it known that I, ROBERT DICK, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Addressing-Machines, of which the following is a specification.

My invention relates to certain improvements in addressing-machines of the type shown and described in Letters Patent granted to me on October 4, 1859, and at various periods subsequent thereto.

In the type of machines referred to I have found that the bearings for the rollers and scraper which from time to time I have embodied in my several patented machines have, by reason of their peculiar construction, been obstructive to the perfect operation of the machine, in that they extended beyond the periphery of the several rollers employed to propel, guide, and give tension to the traveling paste-belt, which in its movement had its edges brought in contact with said bearings, and the slightest unevenness of travel resulted in the cramping of the belt. This produced friction to such an extent as to render the machine at times difficult to operate and unsatisfactory in its results.

The object of my present invention is to overcome the objections named, and also to provide a novel construction and arrangement of the paste-regulator, whereby I am enabled to control the amount of paste left upon the belt for use upon the address slip or web.

With this end in view my invention consists in providing bearings upon the interior of the sides of the machine, which, while they serve as guides in properly adjusting the several rollers and as supports therefor when properly seated, shall lie within the plane traversed by the edges of the belt, whereby the latter is left perfectly free and unobstructed in its movement, and is permitted to approach nearer to the sides of the machine, thus enabling me to construct the same of correspondingly less width.

My invention also consists in arranging above the paste-distributor a sliding plate which may be moved to expose a greater or less extent of the serrated edge of the distributor.

In order that those skilled may know how

to make and use my improved machine and fully understand the advantages resulting from the novel features of construction, I will describe the same in detail, referring by letters to the accompanying drawings, in which--

Figure 1 is a central longitudinal section of a machine embodying my invention. Fig. 2 is a top view of the same; Fig. 3, an end view; Fig. 4, a detached view of the tension-brace, and Fig. 5 a detached view of a novel construction of the scraper for cleaning the inside of the traveling belt.

Similar letters denote like parts in the several figures.

A is the shell or body of the machine, B its paste-reservoir, and C the web-reel. D is the vibrating blade, and D' the stationary blade, which form the shearing device for separating the addresses. E is the thumb-feed of the driving-roll; E', its shaft; E², a roughened roll secured thereto; F, the paste-belt; G, the grasp; H, the fixed distributor, and I the armlet.

All of the parts so far referred to are of substantially the form usually employed in my addressing-machines of the type referred to, as are also the several parts represented by the letters J J' K K' K² K³ L L' L².

The removable scraper or cleaner M is constructed of the form shown at Fig. 5, with a slot at each end, in order that the portions M' may rest in their seats in the horizontal loop-bearing M², Fig. 1, the curved end of which is embraced by the slot in the scraper, so that the ends of the same may come in contact with the sides of the shell A, and thus traverse the entire width of the belt, whereby the whole surface is properly acted upon. N represents a wire extending across the front of the machine in a position to prevent the address-slip from doubling back or rising with the blade which cuts the paper. Projecting from the interior of the side of the shell is what I denominate a "separatrix," O, which, as will be seen, lies within the two sides of the belt, but does not traverse its entire width. The object of this device, which may be a simple round-headed screw, is to hold the belt separated at that point, and at the same time, and unlike a continuous bar, avoid scraping off any adhering paste and causing it to be deposited at the lower end of the machine.

P are suspension or guide rollers, which are arranged in bearings P', which, as will be observed, are of U shape, and of such proportions that the curved bottom and upper ends are within the circumference of the circle described by the peripheries of the rollers, so that the edge of the belt F in its movement will not come in contact with said bearings, and is free to pass over the same and nearly approach the sides of the shell.

Q is the tension-roller, the shaft of which is seated in U-shaped bearings Q', which, while they are longer than the bearings P', in order that they may serve as vertical guides for directing the roller to its seat, have their upper ends terminating within the plane of the travel of the belt, for the reason already explained with reference to the bearings P', as will be fully understood by following the line of travel of the belt, as clearly shown in section at Fig. 1.

The fixed paste-distributor H is arranged in substantially the manner heretofore adopted; but in order that its action may be regulated to control the supply and distribution of paste on the belt, I provide a sliding plate, R, above the distributor and between it and short cleats R', so that the serrated edge of the distributor

may be entirely or partially covered by the movement of the sliding plate and the distribution of paste obviously controlled.

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

1. In an addressing-machine, the bearings P' Q' for the several rollers employed, arranged on the inside surfaces of the shell A, and proportioned as described relative to the diameters of the respective rollers, in order that the belt may travel close to the sides of the shell without liability of contact with the bearings, substantially as shown and described.

2. In combination with the paste-distributor H of a mailing-machine of the kind described, the sliding plate R, arranged contiguous thereto, and adapted to move horizontally to increase or diminish the area of the serration of said distributor for the purpose of correspondingly permitting a greater or less amount of paste to be applied to the web, substantially as described.

Witness my hand this 12th day of January, A. D. 1882.

ROBERT DICK.

Witnesses:

JNO. J. BONNER,
CHAS. F. GEYER,