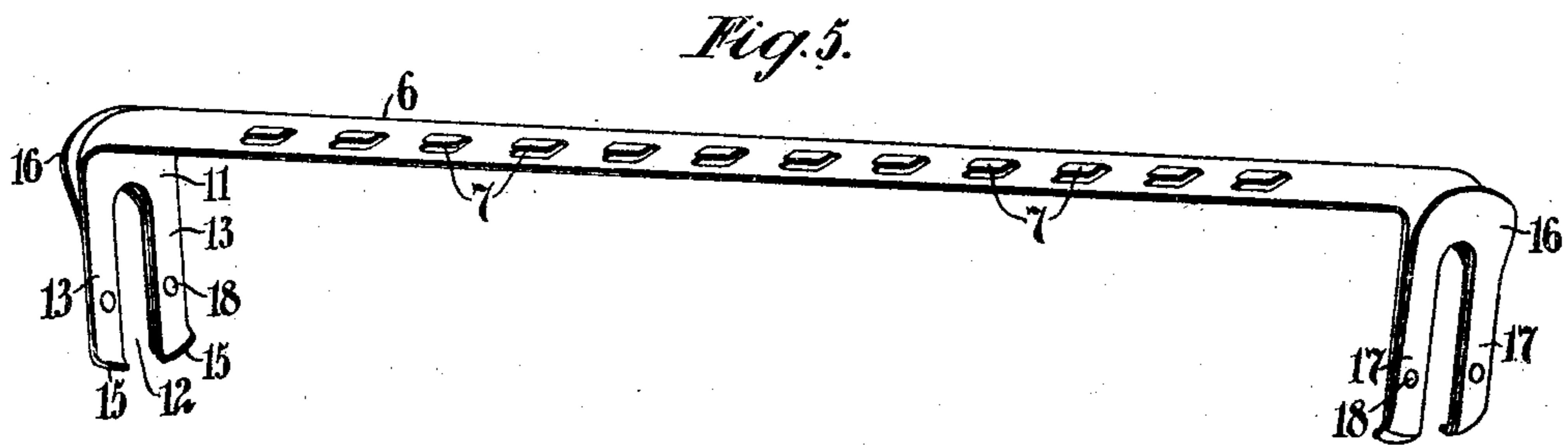
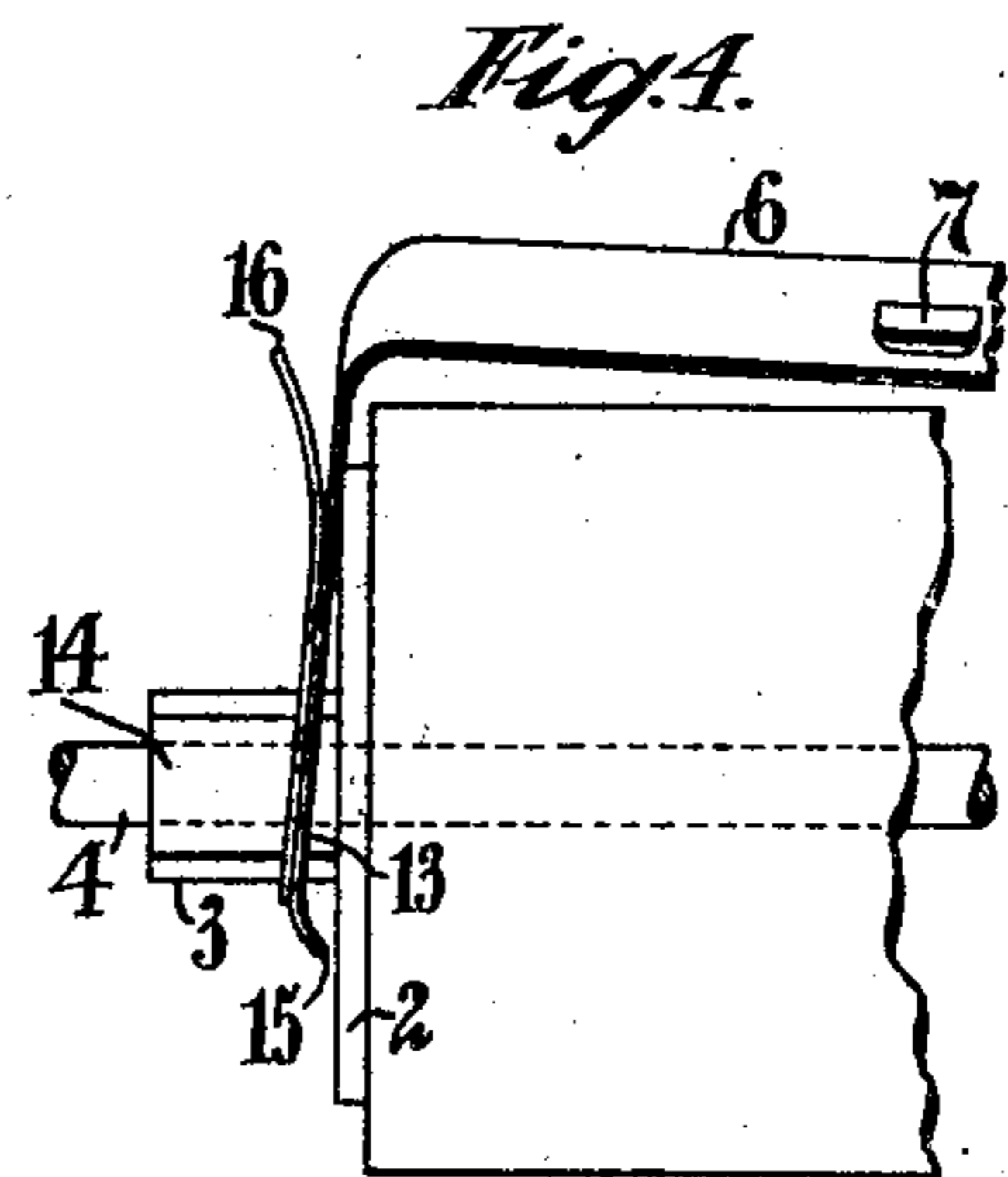
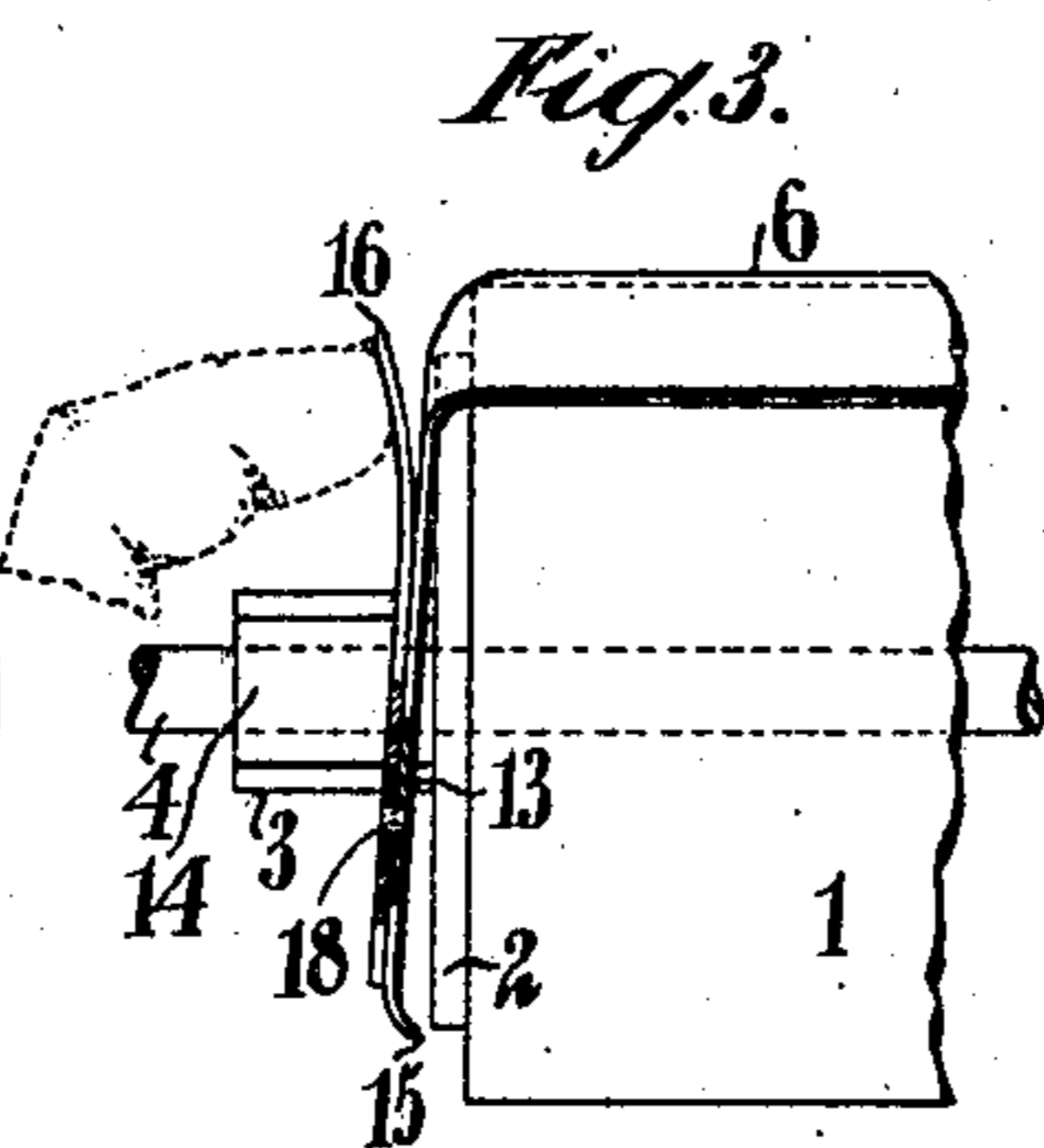
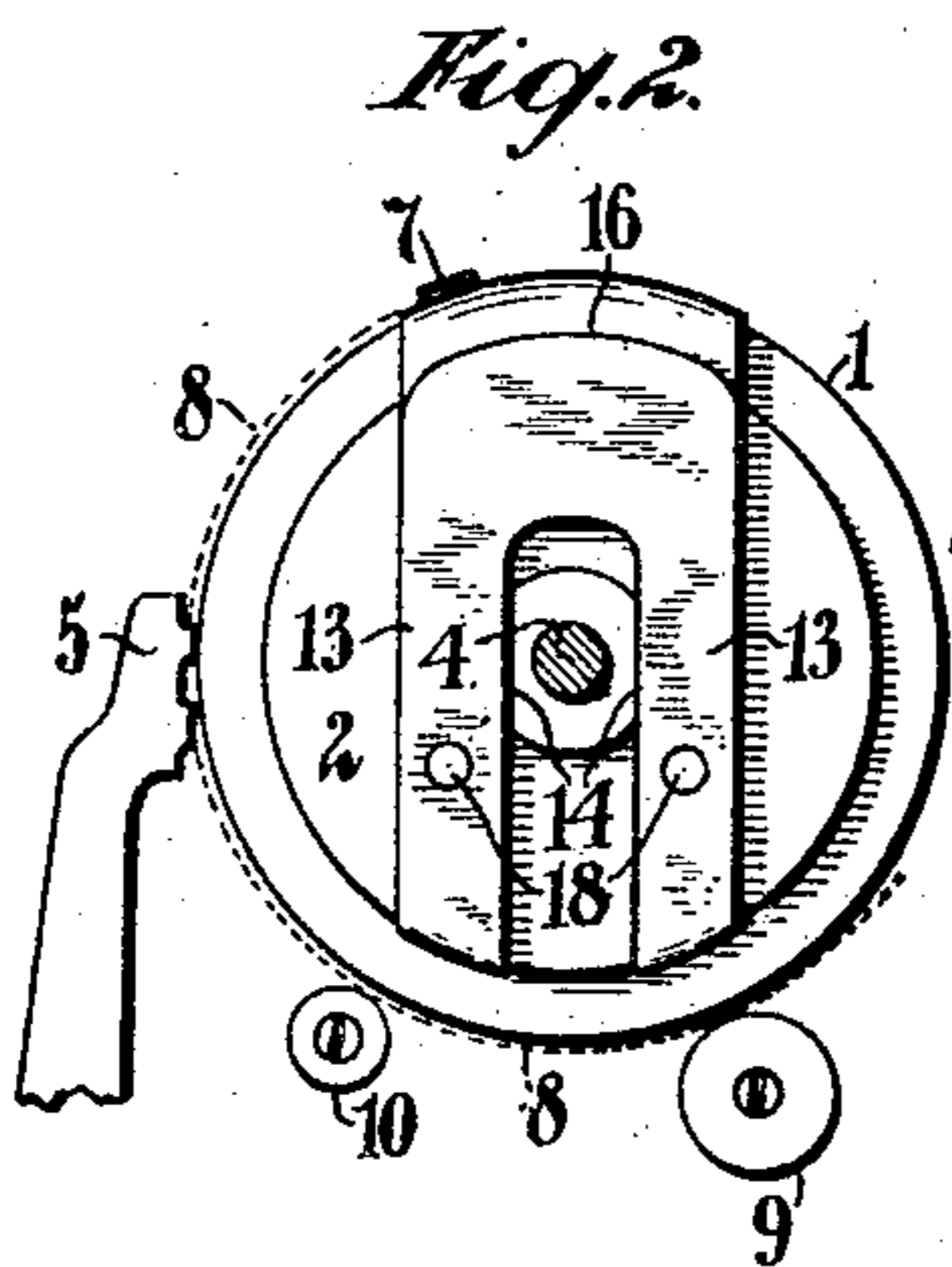
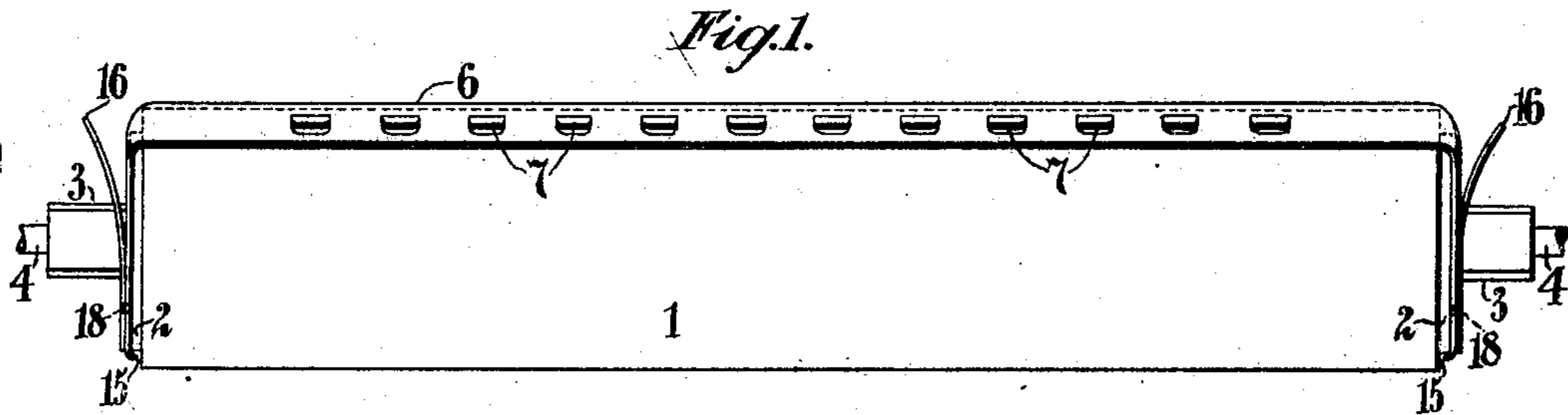


No. 896,977.

PATENTED AUG. 25, 1908.

E. C. DUNBAR.
TYPE WRITING MACHINE.
APPLICATION FILED APR. 30, 1907.



Witnesses:
H. E. Meischer
K. Frankfort

Inventor:
Edwin C. Dunbar
By his Attorney,
B. Stickney

UNITED STATES PATENT OFFICE.

EDWIN C. DUNBAR, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR TO UNDERWOOD TYPE-WRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

No. 896,977.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed April 30, 1907. Serial No. 371,167.

To all whom it may concern:

Be it known that I, EDWIN C. DUNBAR, a citizen of the United States, residing in Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to detachable card-holders for the cylindrical platens of typewriting machines.

Each holder, of the type to which this invention belongs, comprises a metal strip extending the length of the platen and having any suitable card-holding means such as a series of teeth to engage the edges of the card; and at its ends, the strip is bent down to form claws, having hooks to catch over the metal heads of the platen. In practice, it is found desirable to form these claws so that they will have a strong grip, and consequently, it is found awkward to release them. The object of my invention is to provide simple means to release one or both claws, so that the card-holders may be readily detached from the platen.

In the accompanying drawings, Figure 1 is a front elevation of my improved card-holder showing the same in position upon the cylindrical platen of a typewriting machine. Fig. 2 is an end view of the platen and card-holder. Fig. 3 shows the left hand end portion of Fig. 1, and illustrates the manner of releasing one end of the card-holder. Fig. 4 is similar to Fig. 3, but shows the end of the card-holder released, and being withdrawn from the platen. Fig. 5 is a perspective view of the card-holder detached from the platen.

The cylindrical platen 1 of a writing machine is usually provided with disk-like metal heads 2, the latter having integral hubs 3 carried upon a platen axle 4; and types 5 usually strike against the front of the platen, as for instance in the well known Underwood machine.

The card-holder may be of any suitable type. In the present instance, it is illustrated as comprising a metal strip 6 having teeth 7 projecting therefrom, to receive the edge of a card 8. The strip 6 and the teeth 7 lie quite close to the platen, so as to pass easily the usual pressure rolls 9, 10. At each end, the metal of the strip 6 is bent down to form a claw 11, which is recessed at 12, to

form forks 13, to go over the hub 3, which is formed with flat sides, as seen at 14, to fit in the recess 12 and prevent the card-holder from slipping around relatively to the platen. At their tips, the forks 13 are formed with hooks 15 to catch over the edges of the heads 2, thus avoiding liability of accidental detachment of the card-holder from the platen, the claws 11 being sufficiently springy to give the hooks 15 a good hold for this purpose.

To release the hooks 15, I provide the claws with wings 16, which are formed with forks 17, to correspond with the forks 13, and are secured thereto by means of rivets 18, near the tips of the claws. At their upper or free ends, these wings are considerably set off from the claws, as seen at Fig. 1, to form finger-pieces, movable towards each other to release the claws, said finger-pieces occupying positions upon the same side of the hubs as the strip 6, or between said strip and the hubs.

In order to release the card-holder, the wings 16 may be pressed towards each other, thereby flexing the claws 11 or the forks 13 sufficiently to withdraw the hooks 15 from the heads 2, as seen in Fig. 3, whereupon the card-holder may be readily taken off from the platen. Since the wings 16 are above the hubs 3, that is on the same side of the hub as the strip 6, it is a simple matter to press in the wings and immediately draw the strip up. In some cases, one of the releasing devices 16 may be omitted, and the other one used for releasing one end of the card-holder as at Fig. 4, the releasing of this end permitting the claw at the other end of the card-holder to become disengaged readily from the head 2.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card-holding strip to extend the length of the platen, springy claws upon the ends of the strip to extend past the platen axle and hooked at their tips to catch over the heads of the platen, and wings secured at their lower ends to said claws near the tips of the latter; said wings having their upper ends set off from said claws to permit said upper ends to be forced towards each

other to spring the tips of the claws away from said heads.

2. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card-holding strip to extend the length of the platen, springy claws upon the ends of the strip and having hooks to catch upon the exteriors of the platen heads, and finger-pieces upon said claws and movable towards each other to release said hooks from the platen heads.

3. A detachable card-holder for use upon the cylindrical platen of a typewriting machine comprising a card-holding strip to extend the length of the platen, springy claws upon the ends of the strip and having hooks to catch upon the exteriors of the platen heads, and finger-pieces upon said claws and movable towards each other to spring the claws away from the heads of the platen to release said hooks from said heads.

4. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card-holding strip to extend the length of the platen, a springy claw upon one end of the strip having means to catch upon the exterior of the platen head, a finger-piece in the form of a wing extending from said claw and movable towards the platen head to flex the claw to release said catching means, and means upon the other end of said strip to catch upon the exterior of the other platen head.

5. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card-holding strip to extend the length of the platen, a springy claw forked to pass beyond the platen hub and provided with hooks upon its tips to catch over the exterior of the platen head, a releasing finger-piece in the form of a wing having forks secured to the forks of the claw, the free end of said wing set off from the body of the claw, and means upon the other end of

the strip to catch upon the exterior of the other platen head.

6. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card holding strip to extend the length of the platen, and devices extending from the ends of the strip to secure the same upon the exteriors of the heads of the platen, each of said securing devices having the form of a springy claw forked to pass beyond the platen hub and provided with hooks upon its tips to catch over the platen head, and each claw provided with a releasing finger-piece in the form of a wing having forks secured to the forks of the claw, the free end of each wing set off from the body of the claw.

7. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card-holder strip to extend the length of the platen and provided at its ends with means to catch upon the exteriors of the heads of the platen, and releasing finger-pieces upon the ends of said card-holder to occupy positions between the card-holding strip and the hubs of the platen, said finger-pieces movable towards each other to release the catching means.

8. A detachable card-holder for use upon the cylindrical platen of a typewriting machine, comprising a card-holding strip to extend the length of the platen and provided at each end with claws to catch over the exteriors of the heads of the platen, and releasing finger-pieces connected to the claws and mounted to occupy positions between the ends of the strip and the platen hubs, and movable towards each other to release the claws.

EDWIN C. DUNBAR

Witnesses:

F. A. RAMSEY,
ROY B. JACOBS.