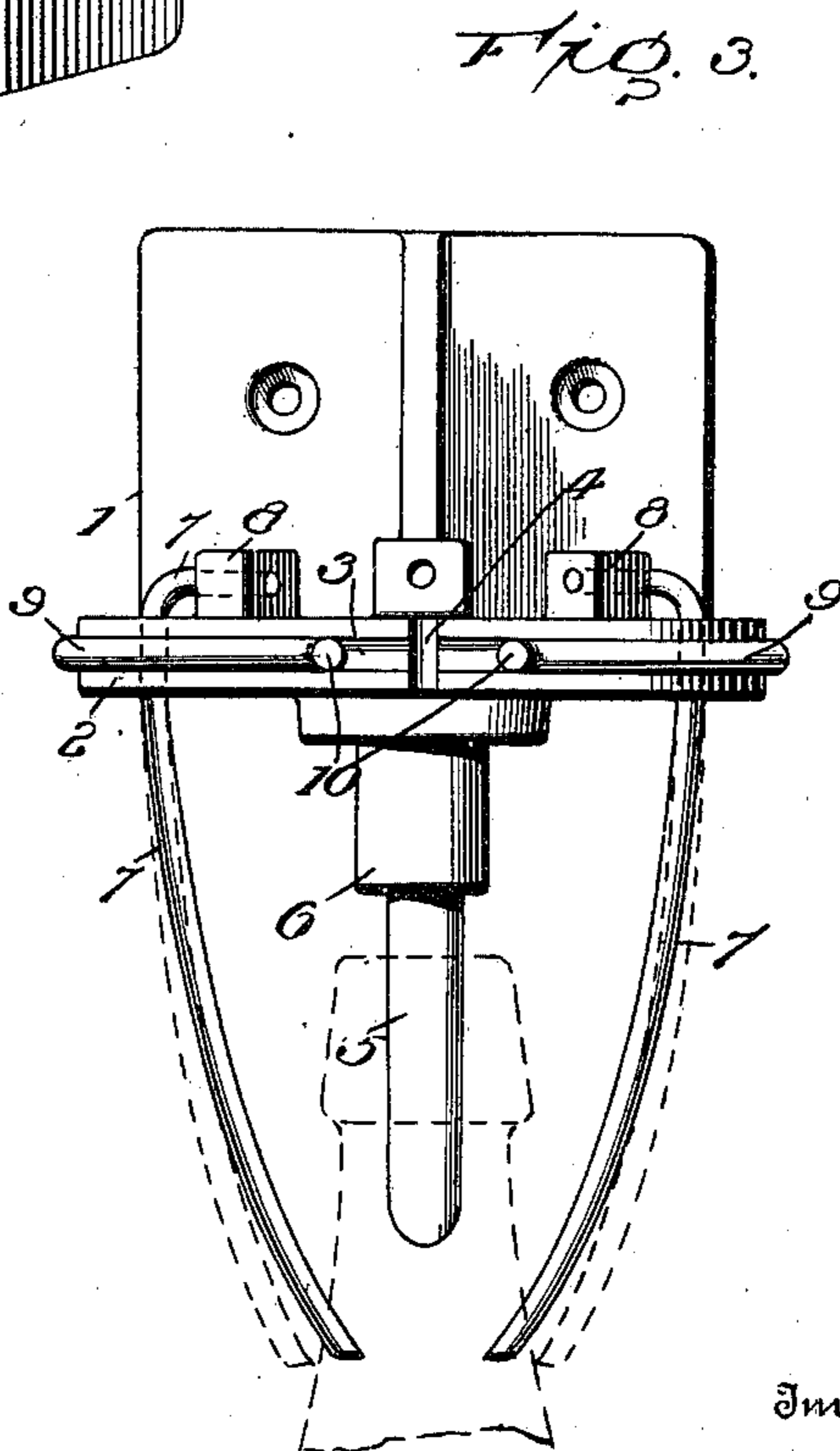
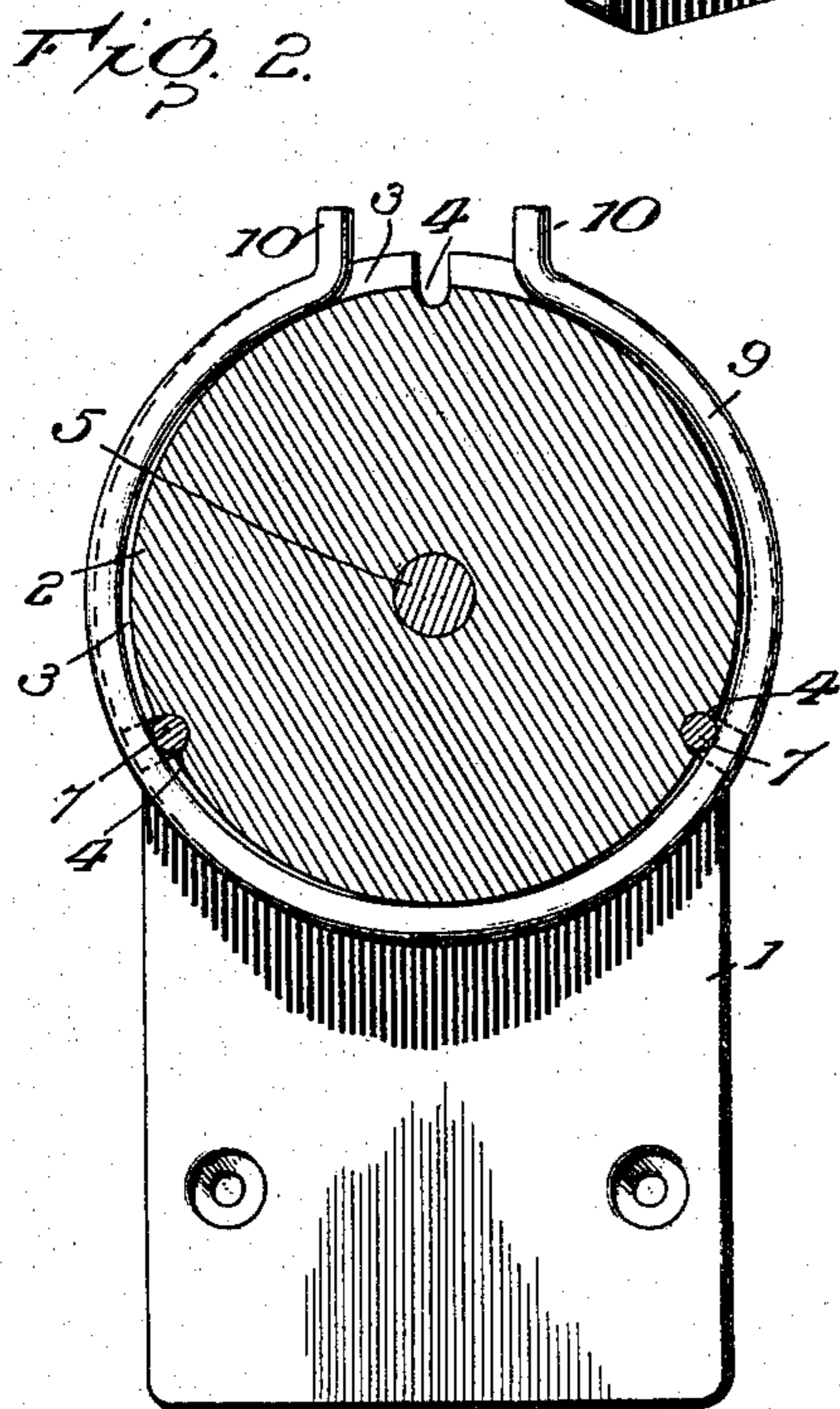
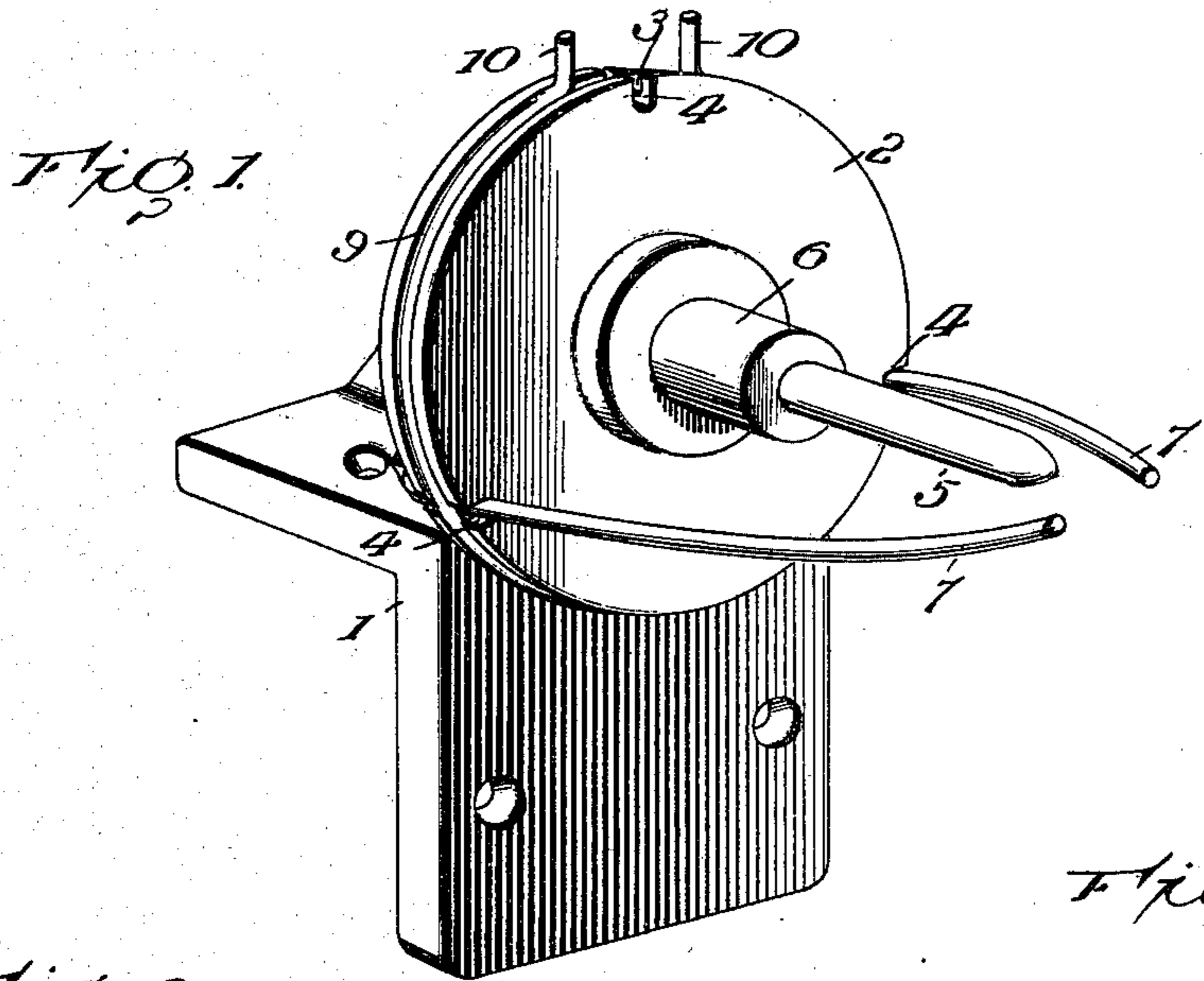


No. 735,466.

PATENTED AUG. 4, 1903.

P. F. CASSIDY.
BOTTLE WIRE DETACHER.
APPLICATION FILED APR. 6, 1903.

NO MODEL.



Witnesses

My Commissioner
Chapman & Co.

By

Patrick F. Cassidy
Attorney

UNITED STATES PATENT OFFICE.

PATRICK F. CASSIDY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO BOSTON BOTTLE WIRING AND LABELING COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MAINE.

BOTTLE-WIRE DETACHER.

SPECIFICATION forming part of Letters Patent No. 735,466, dated August 4, 1903.

Application filed April 6, 1903. Serial No. 151,370. (No model.)

To all whom it may concern:

Be it known that I, PATRICK F. CASSIDY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Bottle-Wire Detachers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide a very simple and inexpensive device for effecting the quick removal of stopper-fastening wires from the necks of empty bottles.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective. Fig. 2 is a transverse sectional view. Fig. 3 is a plan view.

Referring to the drawings, 1 designates a bracket, preferably of right-angular formation and capable of being readily secured to the edge of a board or table. This bracket has a disk 2, formed with a circumferential groove 3, intersected by two, or it may be three, slots 4. Extending centrally from this disk is a guide-post 5, the inner end of which is surrounded by a rubber sleeve 6. This post in cross-section is sufficiently small to conform to the neck-openings of various bottles—such as those used for beer, ginger-ale, &c.

7 7 designate two spring-fingers, preferably made from heavy wire, such fingers being passed through slots 4 and bent at their inner ends to project into openings of lugs 8 on the back of the disk. These spring-fingers are slightly curved, so as to converge toward an imaginary point in line with the axial center of post 5, but terminating short of such center beyond the end of the post.

9 is a spring-ring fitting within the circumferential groove 3, with its ends disconnected and turned outwardly, as at 10, to permit of its being readily turned axially on the disk. This ring incloses those portions of the spring-fingers extended through slots 4, and thereby

locks them in place, and when turned with its ends on either side of a finger the latter may be readily removed.

In practice empty bottles from which the stopper-retaining wires have not been entirely removed are inserted between the ends of the fingers and onto the post 5 and in being forced over the latter the wires are engaged by the fingers and either severed so as to readily fall from the bottle or sufficiently expanded to allow them to pass over the neck thereof. The bottle upon inward pressure thereon is saved from injury by contacting with the sleeve 6.

It is obvious that if either of the spring-fingers should be damaged a new one may be readily substituted and that, if desired, a third spring-finger may be secured in the slot shown at the top of the disk, but for all ordinary purposes I have found that two fingers are sufficient.

I claim as my invention—

1. A device of the character described having a central guide for a bottle and curved or convergent fingers having their outer ends extended nearly into line with the outer end of such guide, as set forth.

2. A device of the character described having a central post, a cushioning-sleeve thereon, and curved or convergent fingers having their outer ends about on line with, but extended beyond, the outer end of such post, as set forth.

3. A device of the character described comprising a disk having a central post, spring-fingers having their outer ends extended beyond and nearly into line with said post, and means for securing said fingers to said disk, as set forth.

4. The combination with the disk having a circumferential groove, and slots intersecting such groove, of a guide extending centrally from such disk, curved fingers passed through such slots and extended at their outer ends beyond, and nearly in line with, said guide, and a split ring fitted in said groove for holding said fingers in said slot, as set forth.

5. The combination with the bracket hav-

ing a disk and lugs on the rear of such disk,
the latter also having a circumferential
groove and intersecting slots, of fingers passed
through said slots and engaging said lugs, a
5 guide-post extended centrally from said disk,
a cushioning-sleeve on the inner end of said
post, and a split ring in said groove for lock-
ing said fingers in said slots, the outer ends
of such fingers being extended beyond, and

nearly into line with, the outer end of said 10
post, as set forth.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

PATRICK F. CASSIDY.

Witnesses:

MICHAEL FLYNN,
TIM CURRY.