

No. 873,990.

PATENTED DEC. 17, 1907.

C. M. CRUM.
REIN HOLDER.

APPLICATION FILED JULY 16, 1906

Fig. 1.

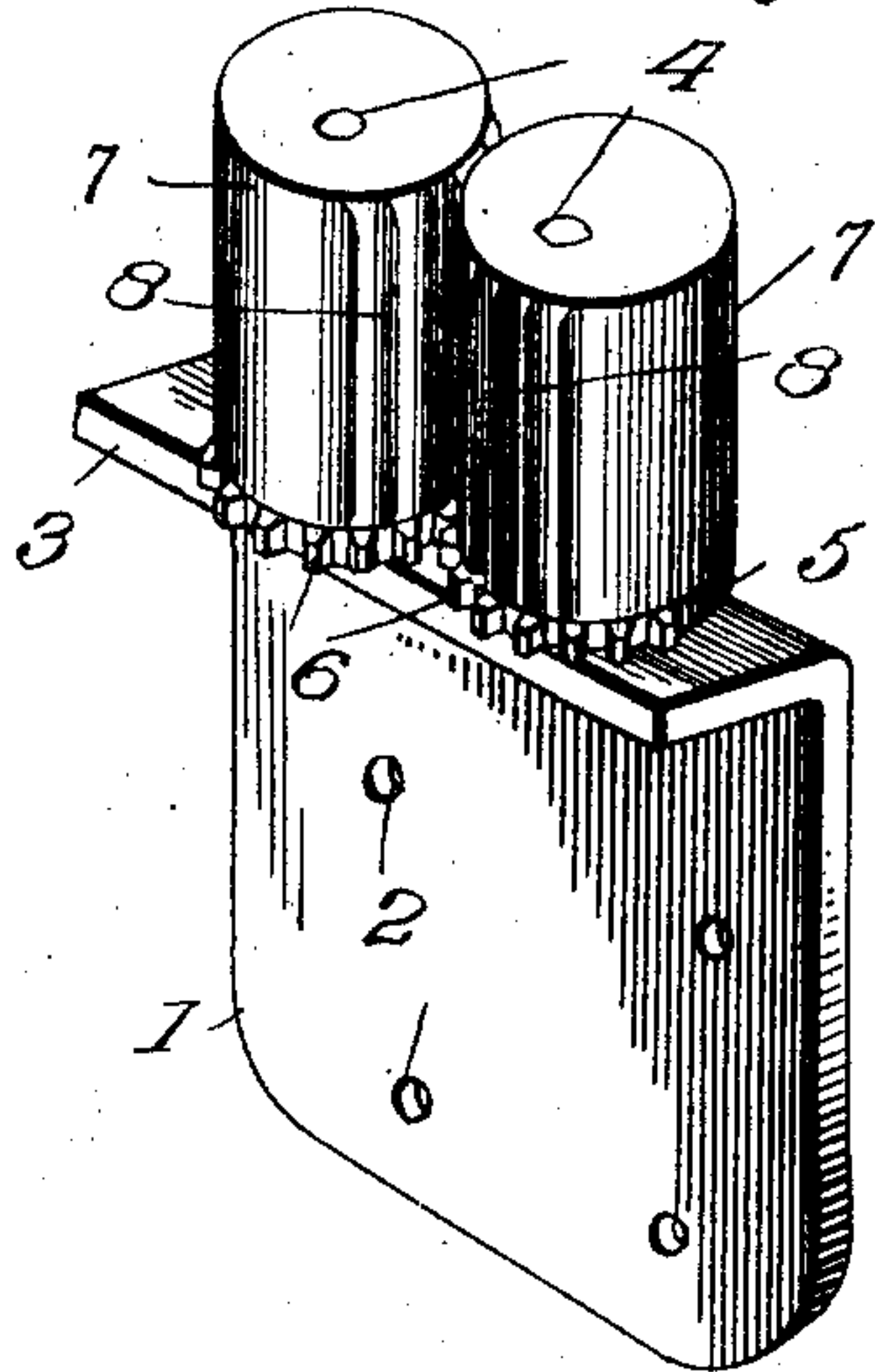


Fig. 2.

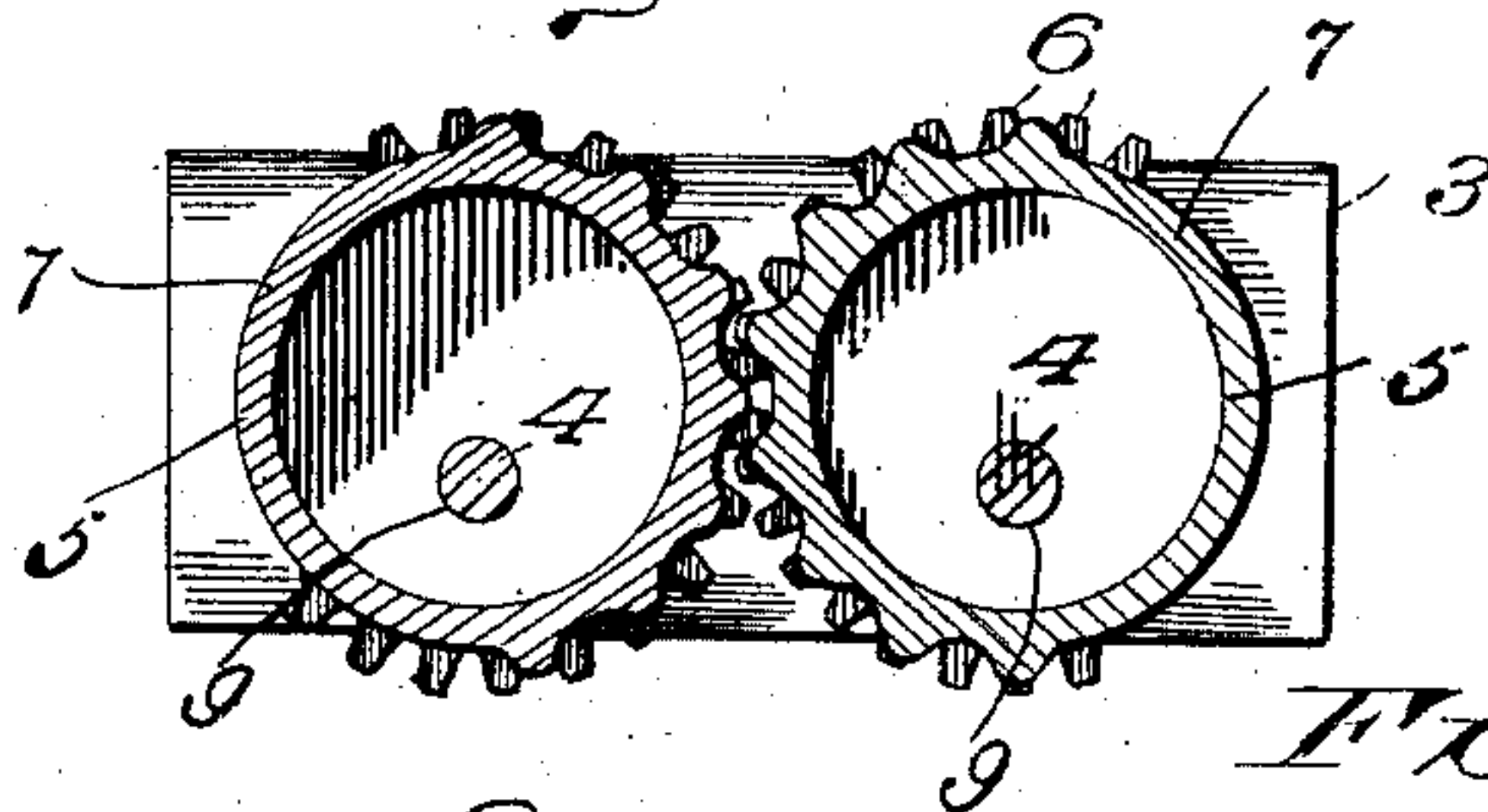


Fig. 3.

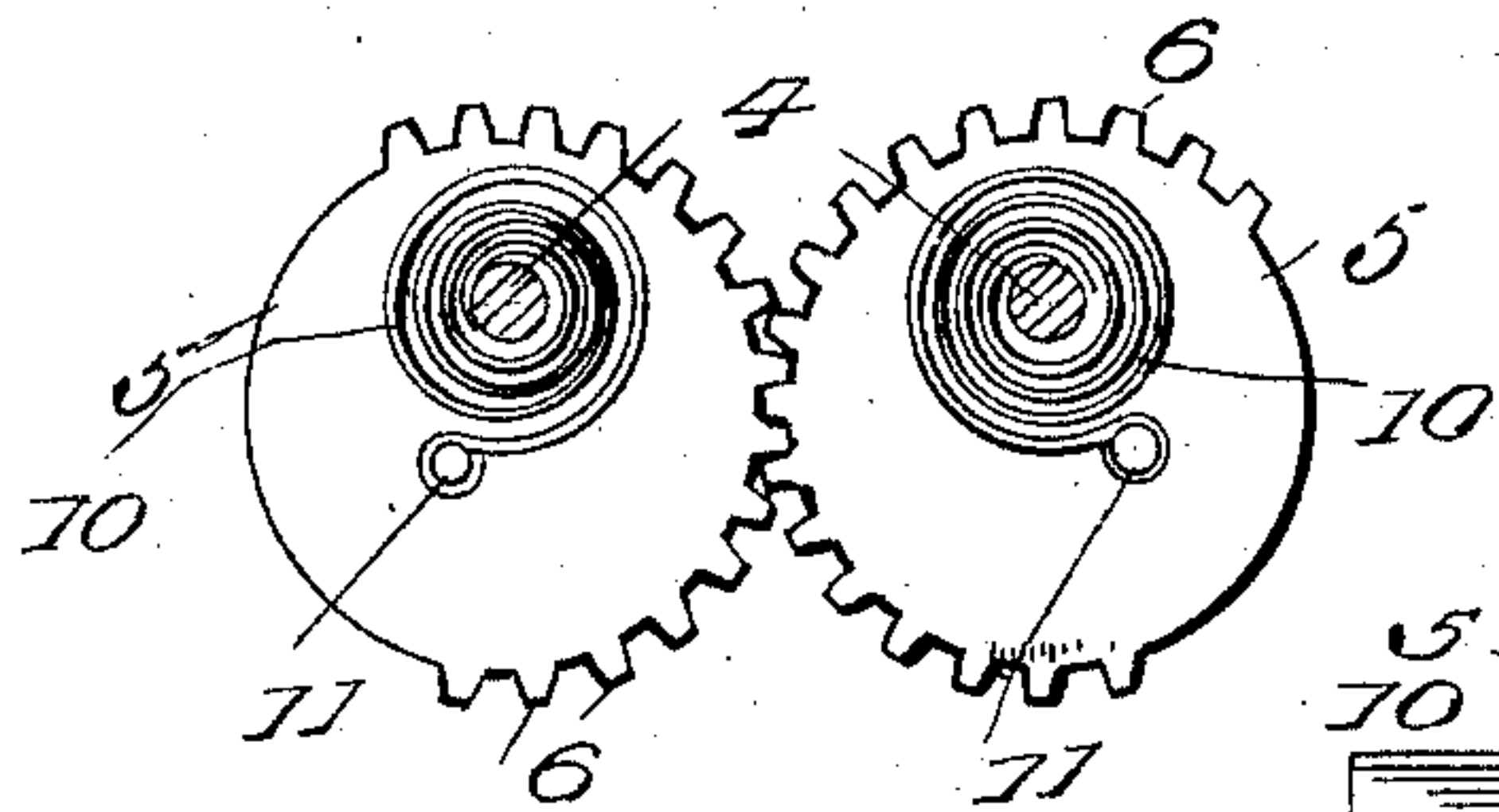
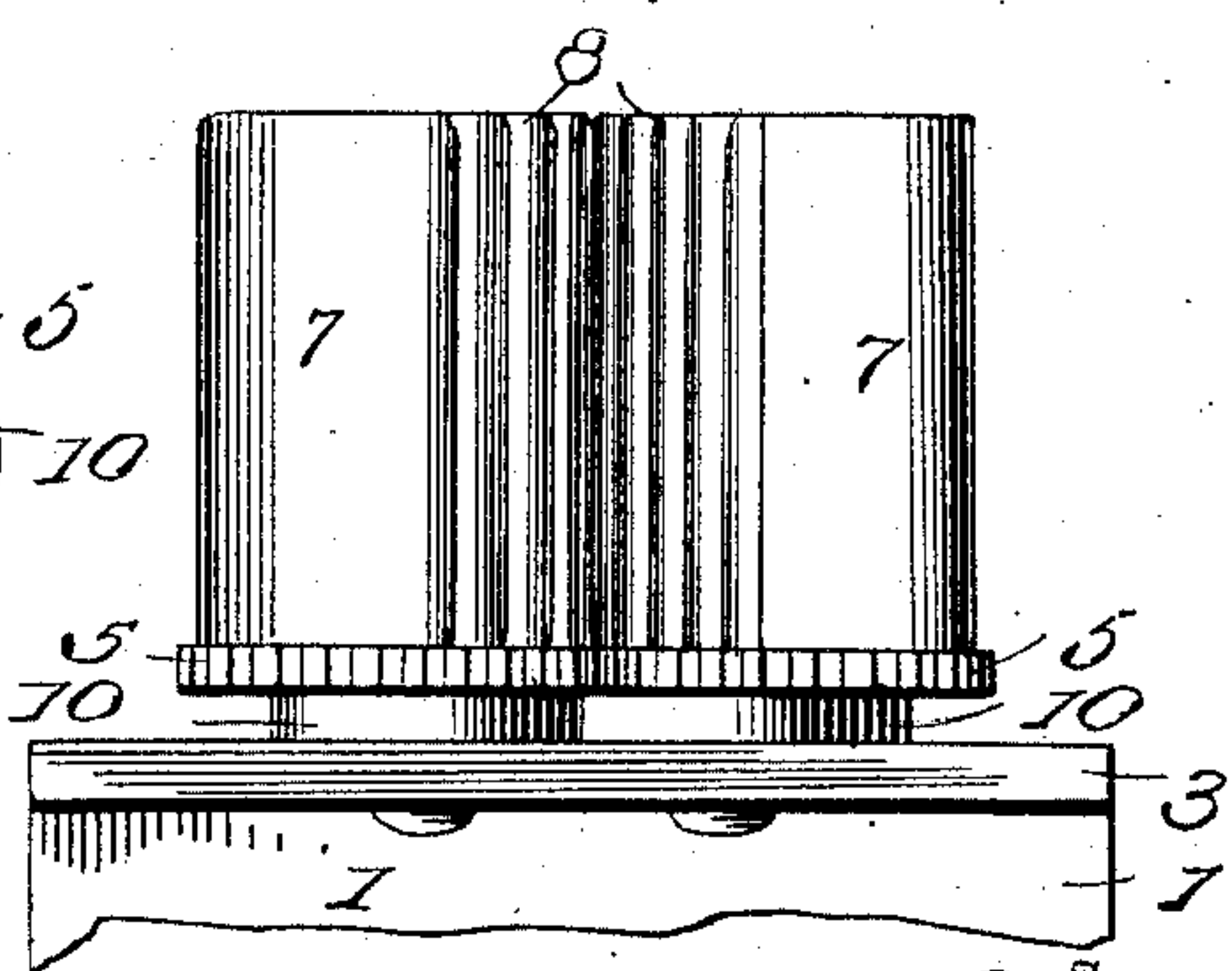


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

CLARENCE M. CRUM, OF HANSBORO, NORTH DAKOTA.

REIN-HOLDER.

No. 873,990.

Specification of Letters Patent.

Patented Dec. 17, 1907.

Application filed July 16, 1906. Serial No. 326,373.

To all whom it may concern:

Be it known that I, CLARENCE M. CRUM, a citizen of the United States, residing at Hansboro, in the county of Towner and State of North Dakota, have invented certain new and useful Improvements in Rein-Holders, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to rein-holders, one of the objects being to provide a device of the character described that can be removably mounted on any convenient part of a carriage or other vehicle, such as the dash-board, end of the seat, side of the box, etc., or that may be removably mounted on an ordinary hitching post so that the reins may be conveniently accessible to the driver for use in the event of an emergency.

A further object is to provide a rein-holder that shall be simple and inexpensive in construction, durable, and effective in operation, and that will so grip the reins that pulling thereon by the animals to which they are attached will cause them to be more firmly held and secured.

Others objects and advantages of my invention, as well as the structural features by means of which they are attained, will be made clear by an examination of the specification, taken in connection with the accompanying drawing, in which the same reference numerals indicate corresponding parts throughout, and in which,

Figure 1 is a perspective view of the complete device; Fig. 2 is a sectional top plan; Fig. 3 is a bottom plan; and Fig. 4 is a rear end elevation.

Referring to the numerals, 1 designates a vertical supporting plate of any suitable material, preferably sheet metal, which is provided with apertures 2 for the reception of screws or bolts whereby the rein-holder may be removably secured in any desired position on a vehicle or hitching post. The upper edge of said plate is bent at right angles to provide a projecting horizontal plate or flange 3 to which are secured, in any suitable manner, vertical posts or pins 4 on each end of which is rotatably mounted a disk 5 having a portion of its periphery provided with intermeshing cogs 6. These disks are eccentrically mounted on the posts, as shown, so that when they are rotated the cogs will be

thrown into and out of mesh as will be obvious. Secured to each disk 5 is a vertical cylinder or clamping roller 7 which rotates with the disk eccentrically to the posts. Each roller is provided with longitudinal corrugations 8 on a portion of its periphery, said corrugations being arranged to be brought between each other as the cylinders or rollers rotate. These cylinders or rollers are also provided with circular openings 9 in each end for the reception of the posts 4, the openings being arranged eccentric to the central axis of said cylinders. Having one end secured to the posts 4 are coil springs 10, the other ends being connected with depending pegs 11 mounted on the disks 5.

In operation, the driver places the free ends of the reins between the cylinders or clamping rollers by contacting them with the front faces of the peripheries of said rollers and gradually pulling them back to rotate the rollers against the tension of the coil springs and, by reason of said rollers rotating eccentrically to the posts as the reins are pulled backward, the peripheries of said cylinders are carried away from each other. As soon as the reins are arranged between the posts and released by the driver the corrugations 8 immediately clamp them, the coil springs exerting their force to bring the corrugations together and, as force is exerted on the reins by the horses at their forward ends, the tighter they are clamped at their rear ends between said rollers as will be manifest.

From the foregoing it is thought the construction, operation, and advantages of the invention will be obvious, and further description is not deemed necessary.

Having thus described my said invention, what I claim as new and desire to secure by Letters Patent of the United States, is

The herein described rein-holder comprising a right angular attaching plate having apertures in its vertical portion for the reception of fastening devices, parallel posts projecting vertically from the upper side of the horizontal portion of said plate, cylindrical drums eccentrically mounted upon said posts for rotary movement, said drums being formed upon their outer faces with vertically extending parallel ribs and intermediate grooves or channels, the ribs on one drum being adapted to enter the channels upon the other, to effectively clamp the

reins between said drums, said drums being
also provided upon their bottom edges with
meshing cog teeth, studs depending from
the bottoms of said drums, said bottoms of
5 the drums being spaced from the horizontal
portion of the attaching plate, spiral springs
surrounding said posts between said drums
and said plate and having their inner ends
secured to the posts and their outer ends se-

cured to the depending studs on the drums, 10
substantially as shown and for the purposes
set forth.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

CLARENCE M. CRUM.

Witnesses:

J. R. CRUM,

W. C. HAAS.