

E. GILBERT.
 RECORD EJECTOR FOR PHONOGRAPHS.
 APPLICATION FILED DEC. 18, 1902.

969,946.

Patented Sept. 13, 1910.

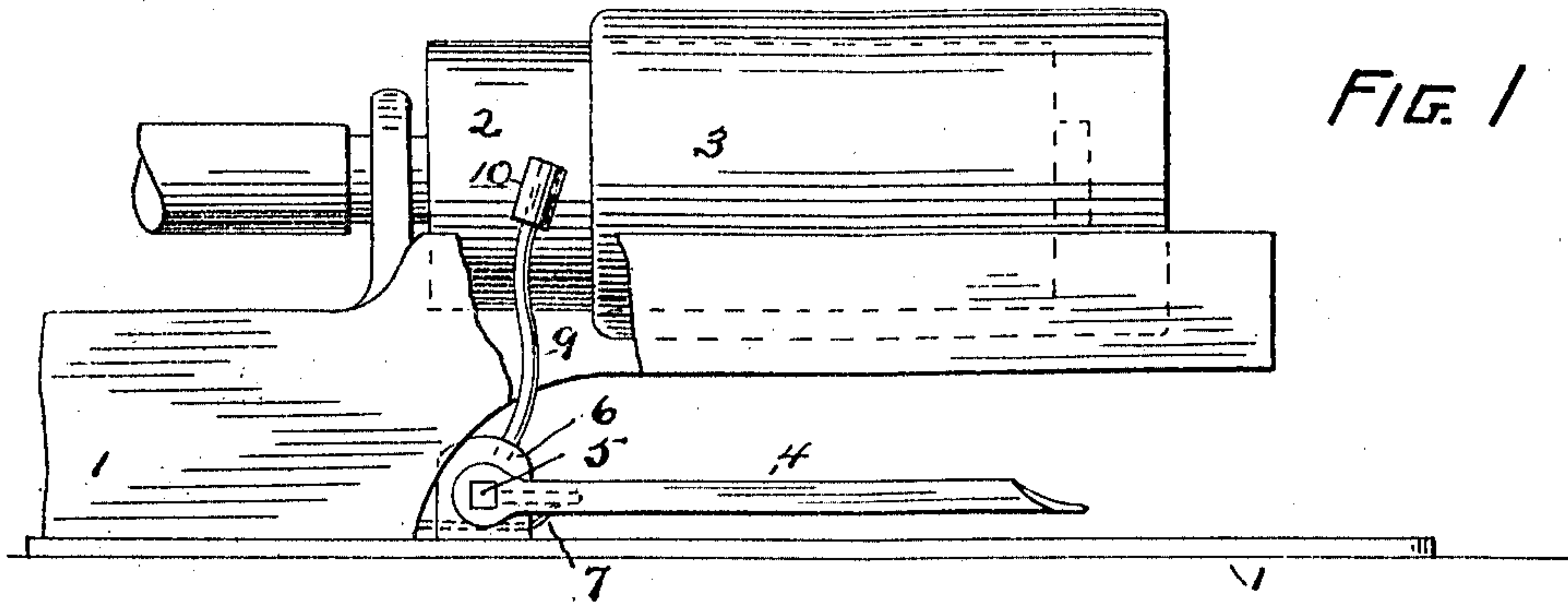


FIG. 1

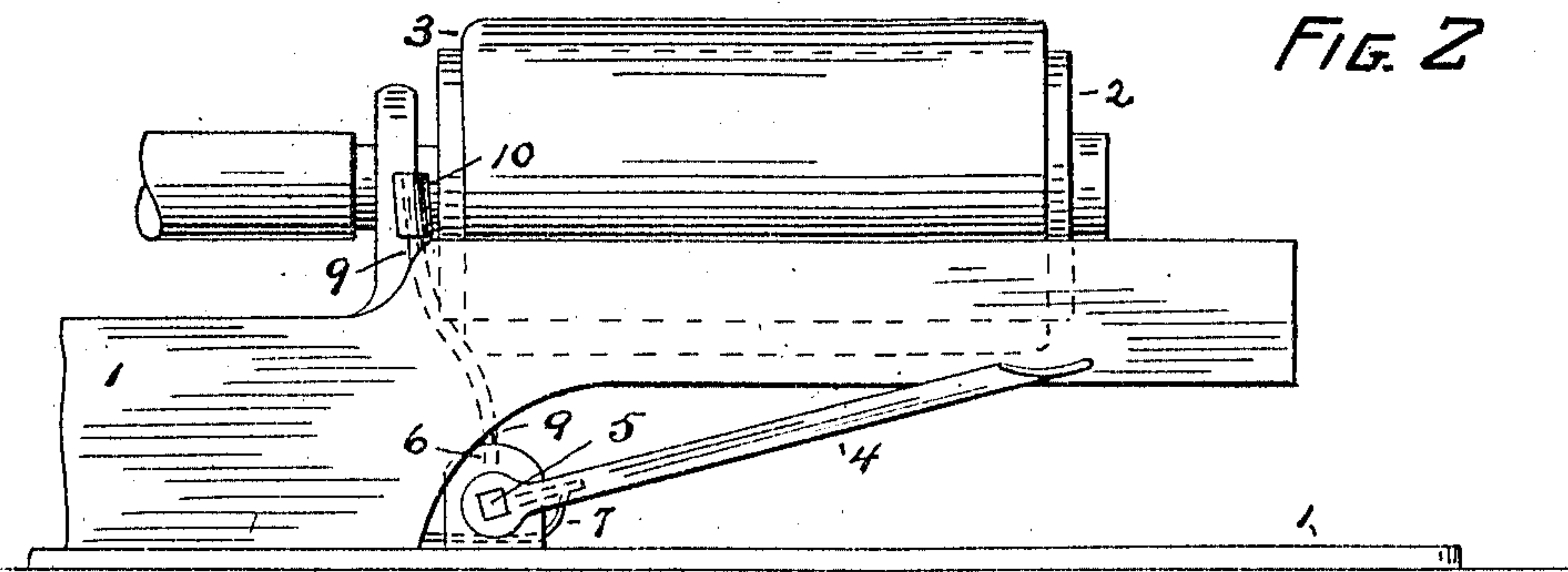


FIG. 2

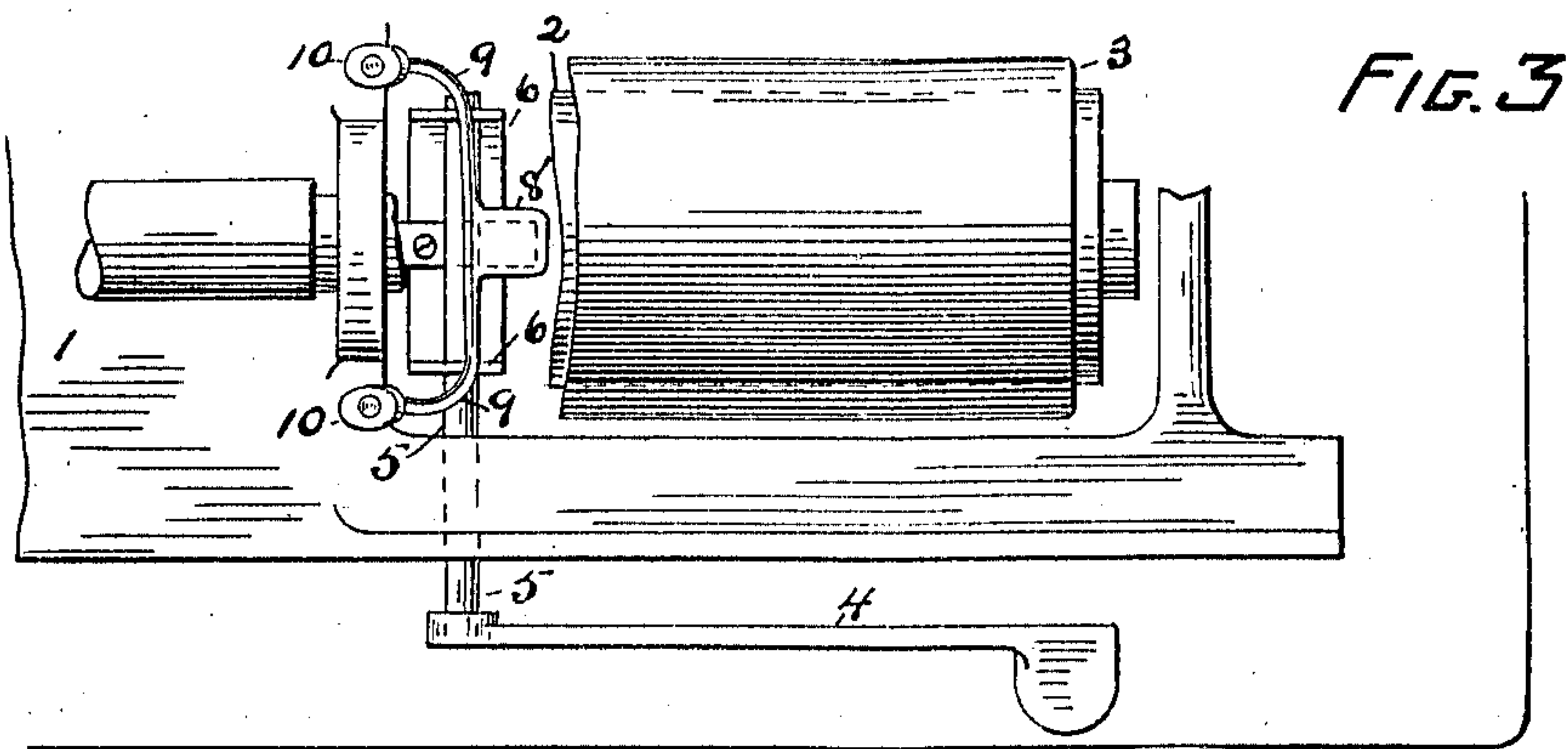
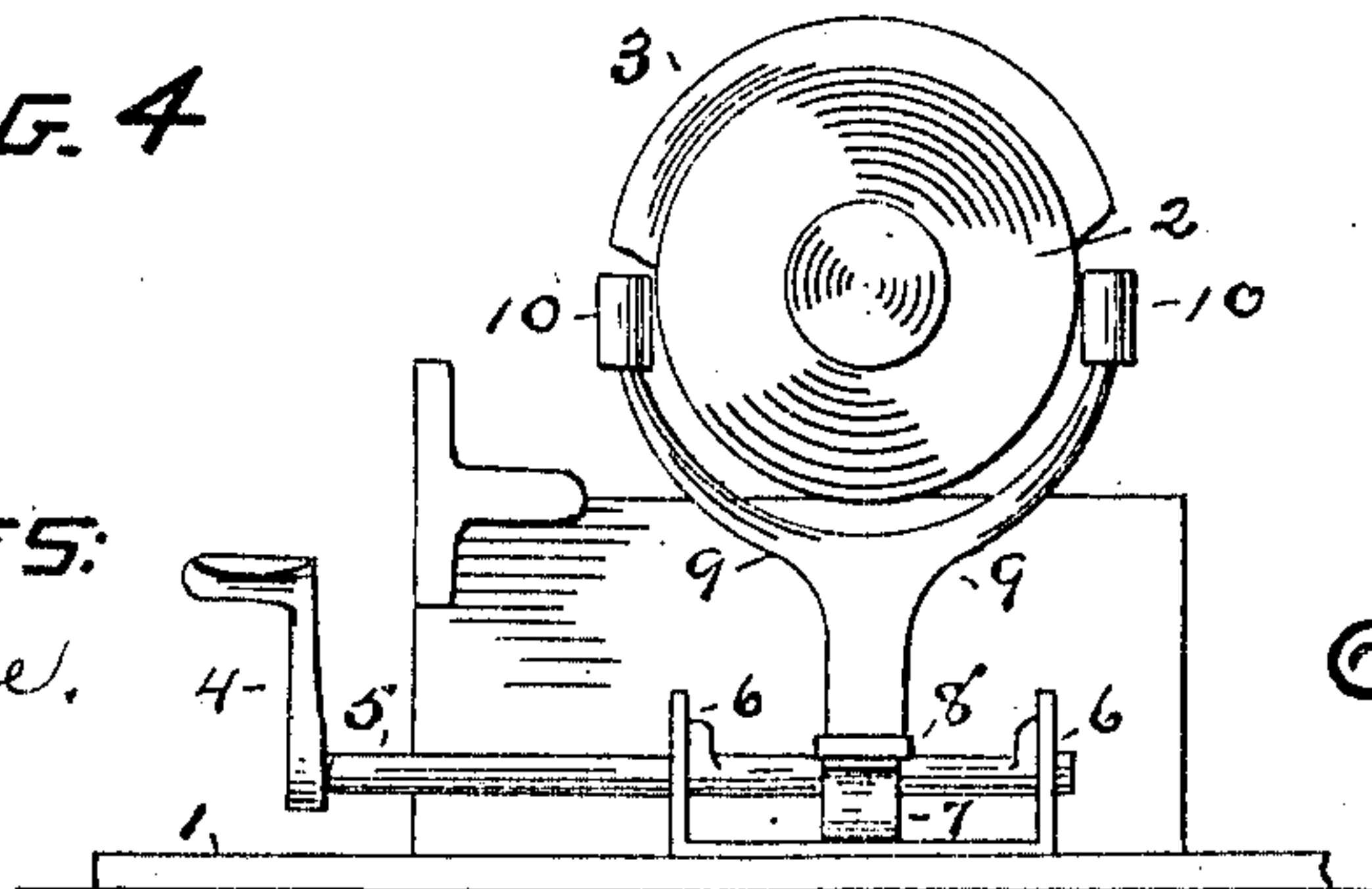


FIG. 3

FIG. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

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RECORD-EJECTOR FOR PHONOGRAPHS.

969,946.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed December 18, 1902. Serial No. 135,691.

To all whom it may concern:

Be it known that I, ELAM GILBERT, a citizen of the United States, residing at Portland, county of Multnomah, State of Oregon, have invented certain new and useful Improvements in Record-Ejectors for Phonographs; and I do hereby declare the following to be a full, clear, and exact description of the same.

The present invention relates to a new and useful device whereby the record of a phonograph or graphophone may be automatically ejected from the record cylinder without injury to the wax surface of the said record, thereby obviating mutilation of the record by being required to loosen and draw the record from the record cylinder by hand.

To comprehend the invention reference should be had to the accompanying sheet of drawings, wherein—

Figure 1 is a detail front view in elevation, partly broken away, illustrating the position of the ejector when thrown to eject the record from the record cylinder; Fig. 2 is a front view illustrating the position of the ejector when the record is inward its full distance; Fig. 3 is a top plan view of the mechanism disclosed by Fig. 2 of the drawings, the record and the record cylinder being partly broken; and Fig. 4 is an end view in elevation, the record being broken away.

The numeral 1 is used to indicate the phonograph bed, and 2 the record cylinder. Upon this cylinder slips the record 3, being held thereon by friction.

To the bed of the phonograph is connected the ejector for removing the record from the cylinder, the same comprising a lever 4 secured to one end of the oscillatory shaft 5, which shaft works in bearings 6 attached to the bed 1. This lever 4 is normally held upward by the pressure of spring 7, interposed between the bed 1 and extension shoulder or lug 8 forwardly projecting from shaft 5.

The oscillatory shaft 5 carries the upwardly extending lever or ejector arms 9, the upper end of which arms rest immediately back of the inner edge of the record 3 so that when said arms are thrown forward, by the downward movement of the lever 4, they are forced against the said end or edge of the record 3 and throw same forward or outward upon the cylinder 2 with

an even pressure beyond the receiving end of the said cylinder. If the lever 4 be thrown downward under a quick movement, the record 3 may be ejected the entire length of the record cylinder. However, the object is simply to force the outer portion of the record a short distance beyond the receiving end of the record cylinder, so as to enable the same to be removed easily by the operator and thereby doing away with the necessity of exerting strain upon the record for this purpose. By thus ejecting the record from the record cylinder, danger of mutilating the record by pulling same off of the said record cylinder is avoided.

To provide against the lever or ejector arms injuring the inner edge of the record 3 against which they act, each arm has secured thereon an elastic cushion, or sleeve which bears upon the edge of the record during the operation of ejecting same.

Having thus described the invention, what is claimed as new and desired to be protected by Letters Patent, is—

1. In a phonograph, the combination with the record cylinder, of the ejector arms arranged to bear against the inner edge of the record, and means whereby the ejector arms are actuated to force the record outwardly upon the record cylinder.

2. In a phonograph, the combination with the phonograph bed, of the record cylinder, of an oscillatory shaft attached to the bed, a lever for actuating same, the ejector arms carried thereby, and a spring for restoring the oscillatory shaft to its normal position.

3. In a phonograph, the combination with the record cylinder, of lever actuated means whereby a record is ejected from the record cylinder.

4. In a phonograph, the combination with the record cylinder, of the ejector arm arranged to bear against the inner edge of the record, a protecting cushion or sleeve secured to said arm, and means whereby the ejector arm is actuated to force the record outwardly upon the record cylinder.

5. In a phonograph structure, a movable phonograph record ejector mounted upon the phonograph structure and operative to engage and remove the record from its mandrel.

6. In a phonograph, the combination with a cylindrical phonograph record, of means

mounted upon the phonograph structure for ejecting the record from its mandrel.

7. In a phonograph, the combination with a cylindrical phonograph record, of means
5 consisting of a lever mounted upon the phonograph structure for ejecting the record from its mandrel.

8. In a phonograph, the combination with a phonograph record, of means mounted
10 upon the phonograph structure for ejecting the record from its support.

9. In a talking machine, the combination with a talking machine record support, of means mounted upon the talking machine

structure for ejecting a record from said 15 support.

10. In a talking machine, the combination with a talking machine record support, of means on the talking machine structure for engaging a talking record and shifting the 20 same relative to the support.

In witness whereof I have hereunto set my hand.

ELAM GILBERT.

Witnesses:

N. A. ACKER,

D. B. RICHARDS.