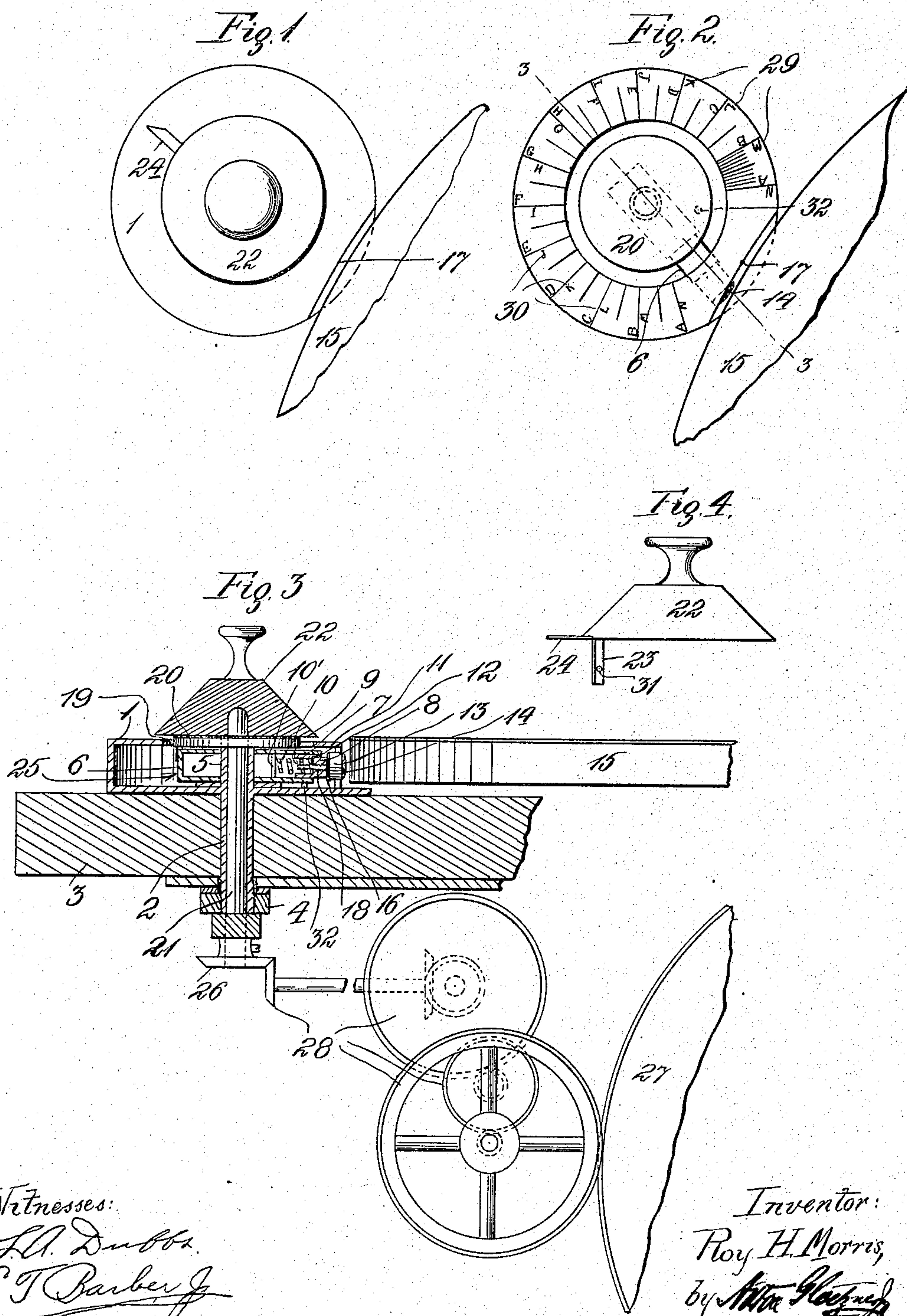


R. H. MORRIS.
STOP FOR TALKING MACHINES.
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1,166,851.

Patented Jan. 4, 1916.



Witnesses:
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Inventor:
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by *Wm. H. Hays*
his Atty.

UNITED STATES PATENT OFFICE.

ROY H. MORRIS, OF LOS ANGELES, CALIFORNIA.

STOP FOR TALKING-MACHINES.

1,166,851.

Specification of Letters Patent.

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Application filed July 7, 1914. Serial No. 850,824.

To all whom it may concern:

Be it known that I, ROY H. MORRIS, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a certain new and useful Improvement in Stops for Talking-Machines, of which the following is a specification.

My invention relates to an automatic stop for talking machines of the disk type, and has for one of its objects to provide a stop mechanism in which the point of stopping of the turntable when the record carried thereby has been reproduced, may be previously and accurately determined and in which the actuation of the stop is positive and precisely in accordance with the point predetermined.

Another object of this invention is to provide a simple and effective stop, which may be quickly attached to a talking machine and which is controlled by mechanism connected with the motor.

With these and other objects in view, this invention consists of the features, details of construction and combination of parts described in connection with the accompanying drawing and then more particularly pointed out in the claims.

In the drawing, Figure 1, is a plan view of the stop containing housing showing the indicator. Fig. 2, is a plan view showing the indicating face of the housing, the stop being shown partly in dotted lines. Fig. 3 is a sectional elevation on lines 3—3, Fig. 2, showing the stop mechanism and the motor controlled means for actuating the stop, and Fig. 4, is an elevation of the stop actuating and indicating member.

The invention consists preferably of an annular housing 1, having centrally thereof a hollow stem 2, arranged to extend through the top 3, of a talking machine, and being threaded at its end to receive a nut 4, whereby the housing may be firmly secured to the said top 3. A portion of said hollow stem 2, extends into the housing 1, as shown at 5, and this portion forms a bearing for a stop-carrying member 6, in the longer end 7, of which is slidably mounted a plug 8, having a socket 9, for receiving a tension spring 10, which normally holds said plug projected and the shoulder 11, thereof in engagement with a lip 12, formed on said carrying member 6. Said spring 10, is held in position by a pin 10', extending transversely of said

carrying member 6. The plug 8, is provided with an adjustable stop 13, having a rubber or other suitable facing 14, for engagement with the periphery of a turntable 15, of a talking machine. The adjustment of said stop 13, may be effected in any suitable manner, as by a threaded stem 18 on said stop 13, engaging a threaded orifice in said plug 8, a suitable lock nut 16, being provided to lock said stop in position of adjustment. A portion of the wall of said housing 1, adjacent the turntable 15, is cut away as at 17, to permit the stop 13, to project therethrough and engage the turntable. Rotatably mounted on said hollow stem 2, is a plate 20, having a shaft 21, extending for a short distance above the level of said plate and through said hollow stem 2. Said plate 20, is of smaller diameter than and fits in an opening 19, in said housing, for the purpose of leaving a space between said table and opening. Loosely fitting over that portion of said shaft which extends above, and resting on said plate 20, is a weight 22, having an arm 23, which extends downwardly into the housing, and an indicator 24, extending outwardly from said member 22, over the face of the dial or indicating marks on the face of the housing. The arm 23, of the member 22, is so arranged that it will pass the shorter end 25, of said stop-carrying member 6, but will engage the longer end 7, and bring the stop 13, in contact with said turntable. On the end of said shaft 21, is a bevel pinion 26, to which power is transmitted from the motor 27, of a talking machine, through a train of reducing gears 28, of either the tooth or friction type as desired.

The face of said housing is inscribed with suitable indicating marks, preferably consecutively arranged, as shown in Fig. 2, these marks in this instance consisting of a series 29, of outside letters, running from A to N, and a series 30 of inside letters, running from N to A. The inside series of letters are provided to determine the length of the record, while the outside series is used to set the indicator for actuation of the stop upon completion of the reproduction of the record. Thus to determine the length of a record, the indicator 24, is set on the line marked A of the inside series 30, and the turntable then set in motion. When the production of the record is completed, the indicator will have traveled over the face

of the housing and will be stopped in its travel with the stopping of the turntable. The designation on the face of the housing at which the indicator has stopped is then
 5 by preference, noted on the face of the record, so that any user may set the stop in accordance with the legend contained on each record thus marked. For instance if
 10 the indicator has stopped at F on the inside series 30, such F is marked on the record. The corresponding F of the outside series 29, is then the point at which the indicator must be set to cause the arm 23, to actuate
 15 the stop when the record is completed, and when the indicator reaches the line marked A of the outside series. Assuming, therefore, that the indicator 24, has been set at F on the outside series 29, and that the motor is set in motion, the weight 22, will revolve
 20 with the plate 20, and the arm 23, on said weight, will engage and move the stop carrying member 6, and bring the stop 13, in engagement with the periphery of the turntable upon the completion of the reproduction of a record. Such operation of the
 25 stop carrying member 6, will occur irrespective of the position it occupies in the housing, that is to say, the stop carrying member may be moved by the arm for the entire distance of the travel of said arm, or it may be
 30 moved for a distance sufficient only to cause slight contact of the stop 13, with the turntable, which frictionally brings the stop carrying member to operative position.
 35 In order to insure the actuation of the stop at the proper time and to compensate for the wear of the rubber or other facing 14, the arm 23, may be provided with an adjustment in the nature of a screw 31,
 40 which may be used to cause an earlier or later actuation of the stop than that predetermined. To limit the movement of the stop-carrying member 6, about its axis, a suitable lug 32, may be provided, as shown.

45 What I claim is:—

1. In combination with the turntable and

motor of a talking machine, a housing having a series of indicating marks, an opening therein, and a hollow stem, a stop carrying member on said stem, a shaft extending
 50 through said stem, means to transmit power from the motor to said shaft, and a member on said plate having an indicator operable over the face of said housing, and an arm
 55 depending from said member to operate said stop carrying member.

2. A brake for a talking machine, comprising a housing having a hollow stem arranged to extend through the top of a
 60 talking machine, a portion of said stem extending within said housing, a stop carrying member in said housing and loosely mounted on said stem, a shaft extending
 65 through said stem, means to transmit power from the motor of a talking machine to said shaft, a plate on said shaft and resting on said stem, a weight on said plate having an indicator, and a means on said weight for
 actuating said stop carrying member.

3. A brake for a talking machine, comprising a housing having an opening in the
 70 top and side thereof, and indicating marks on the top, and provided with a stem arranged to extend through the top of a talking machine, a portion of said stem extending
 75 within said housing, a member within said housing and loosely mounted on said stem, a stop carried by said member for engaging the turntable of a talking machine, a shaft extending through said stem and having
 80 operative connection with the motor of a talking machine, a table on said shaft and resting on said stem, and a weight loosely mounted on said table and provided with an indicator and an operating arm for said
 85 stop carrying member.

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

R. H. MORRIS.

Witnesses:

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 E. L. STILWELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."