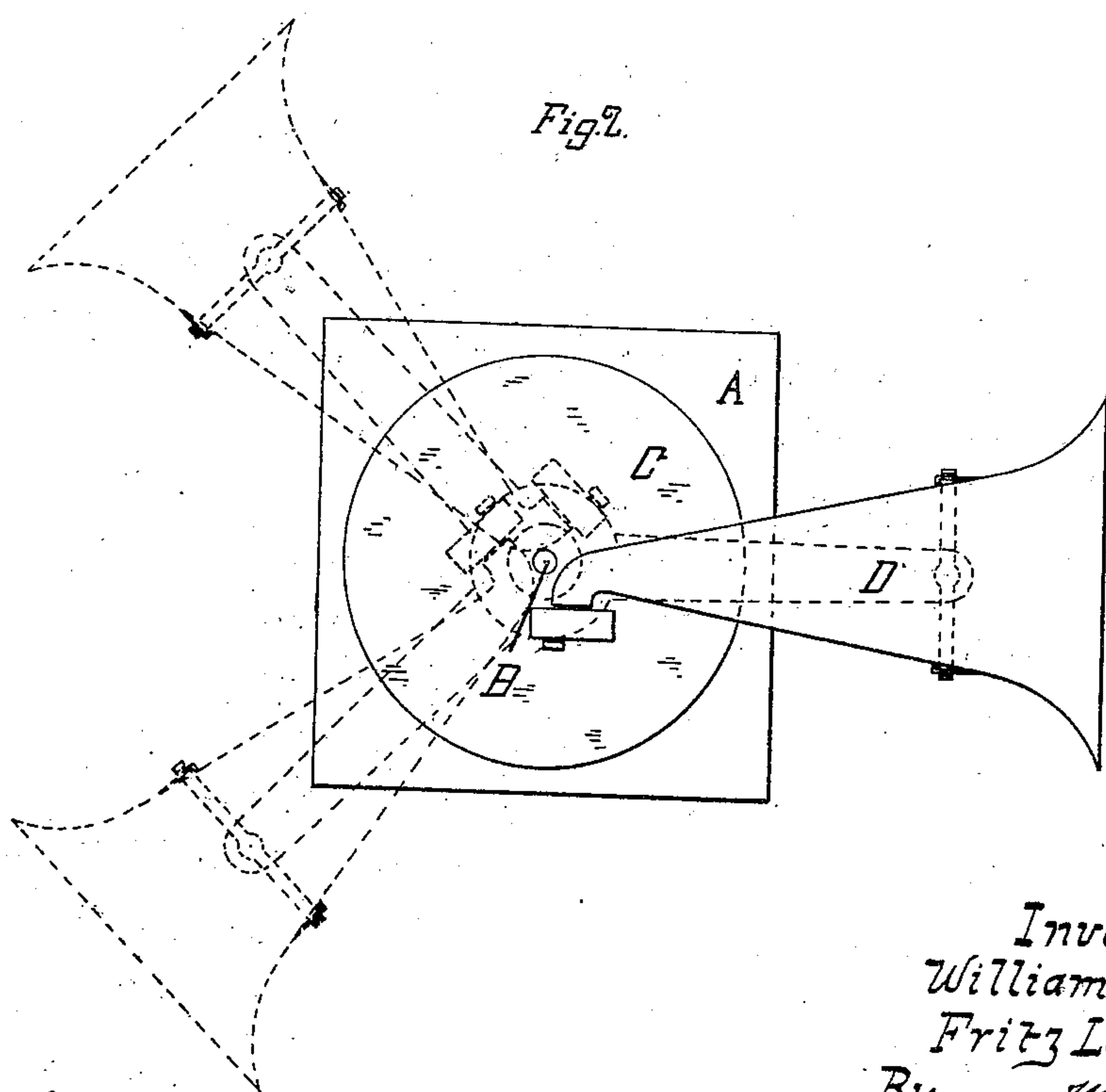
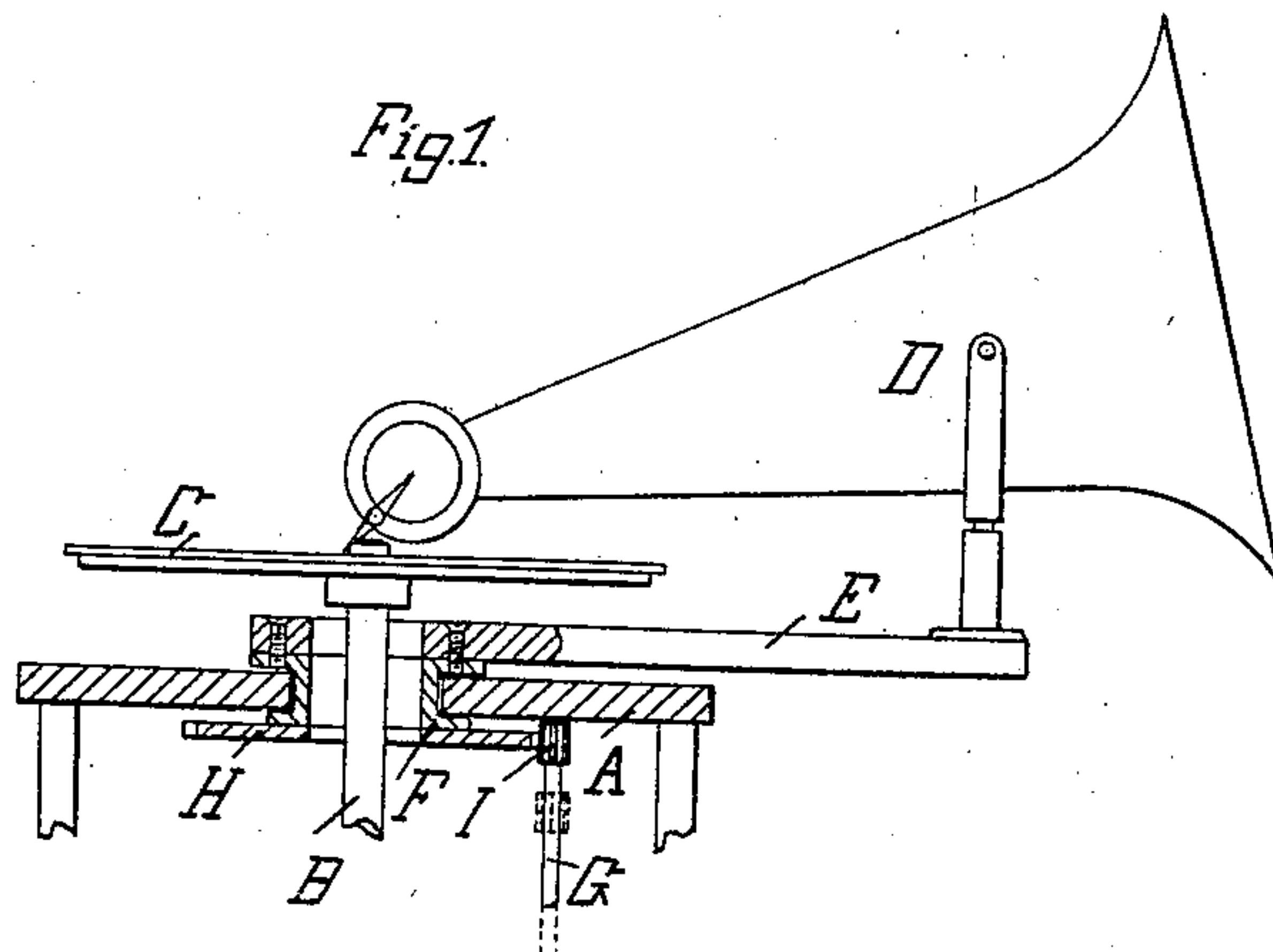


No. 824,368.

PATENTED JUNE 26, 1906.

F. & W. LOCHMANN.
TALKING MACHINE WITH ROTATABLE HORN.

APPLICATION FILED APR. 27, 1904



Witnesses
William Miller
George Hulsberg

Inventors
William Lochmann
Fritz Lochmann
By W. C. Hauff
Attorney

UNITED STATES PATENT OFFICE.

FRITZ LOCHMANN AND WILLIAM LOCHMANN, OF ZEULENRODA, GERMANY,
ASSIGNORS TO ORIGINAL MUSIKWERKE PAUL LOCHMANN GESELL-
SCHAFT MIT BESCHRÄNKTER HAFTUNG, OF LEIPSIK, GERMANY, A FIRM.

TALKING-MACHINE WITH ROTATABLE HORN.

No. 824,368.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed April 27, 1904. Serial No. 206,041.

To all whom it may concern:

Be it known that we, FRITZ LOCHMANN and WILLIAM LOCHMANN, subjects of the King of Saxony, residing at Zeulenroda II, Reuss, Germany, have invented new and useful Improvements in Talking-Machines with Rotatable Horns, of which the following is a specification.

In talking-machines or graphophones in use the horn or sound-trumpet is permanently directed to one side, and consequently the machine is generally best heard from this side. If, however, the entire box of the talking-machine is mounted on a rotatable base, the winding mechanism partakes of the rotation and is located now at one side and then at another. These objections according to this invention are to be overcome by arranging the holder of the horn rotatably about the center axis of the talking-machine, so that by simply turning the holder or carrier the horn can be set to any direction, while the machine itself retains its position undisturbed.

This invention is illustrated in the annexed drawings, in which—

Figure 1 is a sectional view of a talking-machine with rotatable or adjustable horn. Fig. 2 is a plan view of Fig. 1.

The central axis *b* passes through the housing *a* of the machine and, as known, is intended for supporting and rotating the speaking plate or record *c*. The horn *d* is also supported, as known, on a carrier *e*.

According to this invention the carrier *e* for the horn *d* is rotatable about center axis *b*, so that it can be set to any side without requiring the housing *a* of the machine to be disturbed or its position on its base to be changed. The horn can thus be brought to various positions, as indicated by dotted lines, and allowed to throw sound in any direction. Such change of direction can also be made while the machine is in operation.

The manner in which the horn-carrier *e* is arranged to rotate about the center axis *b* is not material so far as this invention is concerned, since any well-known arrangement

can be employed for this purpose. In the example shown the carrier *e* is secured to a bushing *f*, which is rotatably connected concentric to center axle *b* to the housing *a*; but the holder *e* might as well be in form of a turn-table journaled on the housing or a ring, which in case of a ring-shaped housing might rotate thereabout or about a ring-shaped plate applied to the housing, or an arrangement of any other suitable kind could be applied for rotatably supporting the holder *e* about axle *b*. The rotation of the horn could also be accomplished mechanically by the pinion device when, for example, to the axle *g* a pinion-wheel *i* is applied, which engages a gear-wheel *h*, secured to box or sleeve *f* or to the hollow axle of rotation of the horn-carrier *e*. This arrangement can be made releasable, for example, by arranging the pinion *i* shiftably on axle *g*, so that the connection of such pinion with the gear-wheel can be made or broken, as desired. Any other desired coupling can be utilized to adapt the device for releasably conveying the movement of rotation from axle *g* to bushing *f*.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. A talking-machine comprising a rotatable horn-carrier mounted centrally with respect to the machine.

2. A talking-machine comprising a horn-carrier rotatable about the driving-axle of the machine.

3. A talking-machine comprising a housing, a horn, a holder and a driving-axle, said holder being rotatable about the driving-axle of the machine to enable the horn to be directed toward various points without disturbing the housing.

4. A talking-machine comprising a housing or cabinet, a horn, a holder or carrier for the horn, and a driving-axle releasably geared to the holder for rotating or adjusting the direction of the same without disturbing the housing.

5. The combination with a disk graphophone, of a horn-support adjustable circumferentially in respect to the disk.

6. The combination with a disk graphophone, of a horn-support rotatable around the disk.

7. The combination with a disk graphophone, of a rotatable horn-support concentrically journaled in respect to the axis of the disk.

In testimony whereof we have hereunto

set our hands in the presence of two subscribing witnesses.

FRITZ LOCHMANN.
WILLIAM LOCHMANN

Witnesses:

HANS NEUER,
GUSTAV MÜLLER.