

F. J. HERTEL.

INCASEMENT OR HOUSING FOR MECHANICAL MUSICAL INSTRUMENTS.

(Application filed June 8, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 2.

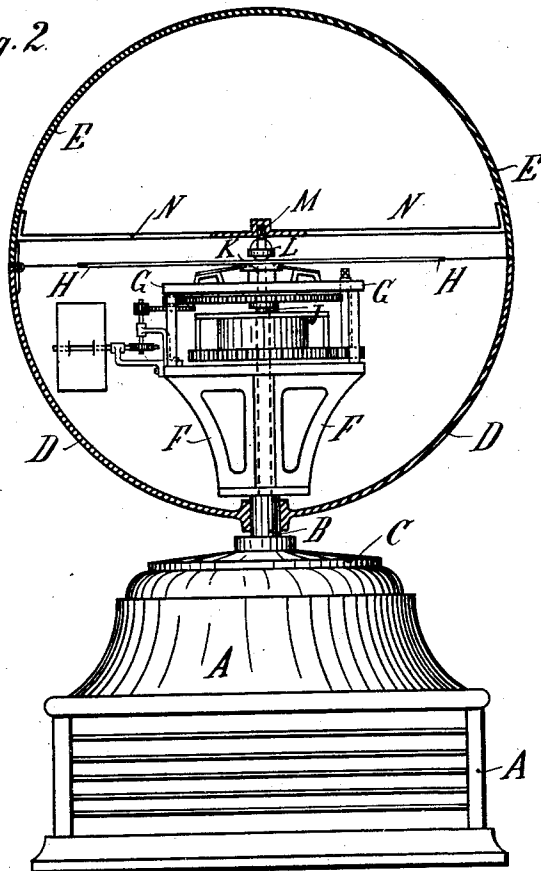
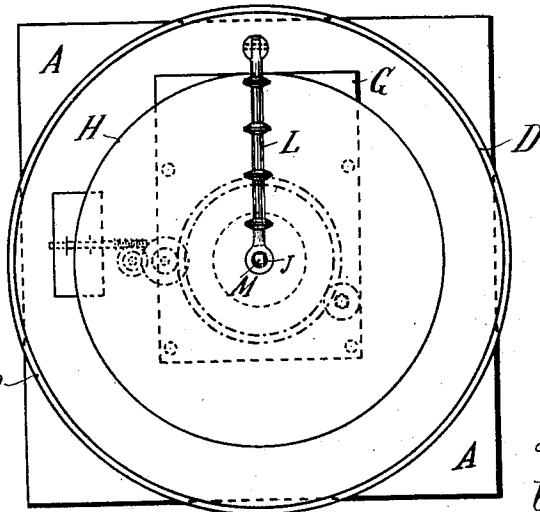


Fig. 1.



Witnesses:

Alfred W. Hickory
Walter Jesse.

Inventor:

Frank Julius Hertel.
by *Eugene W. Hopkins*
Att'y.

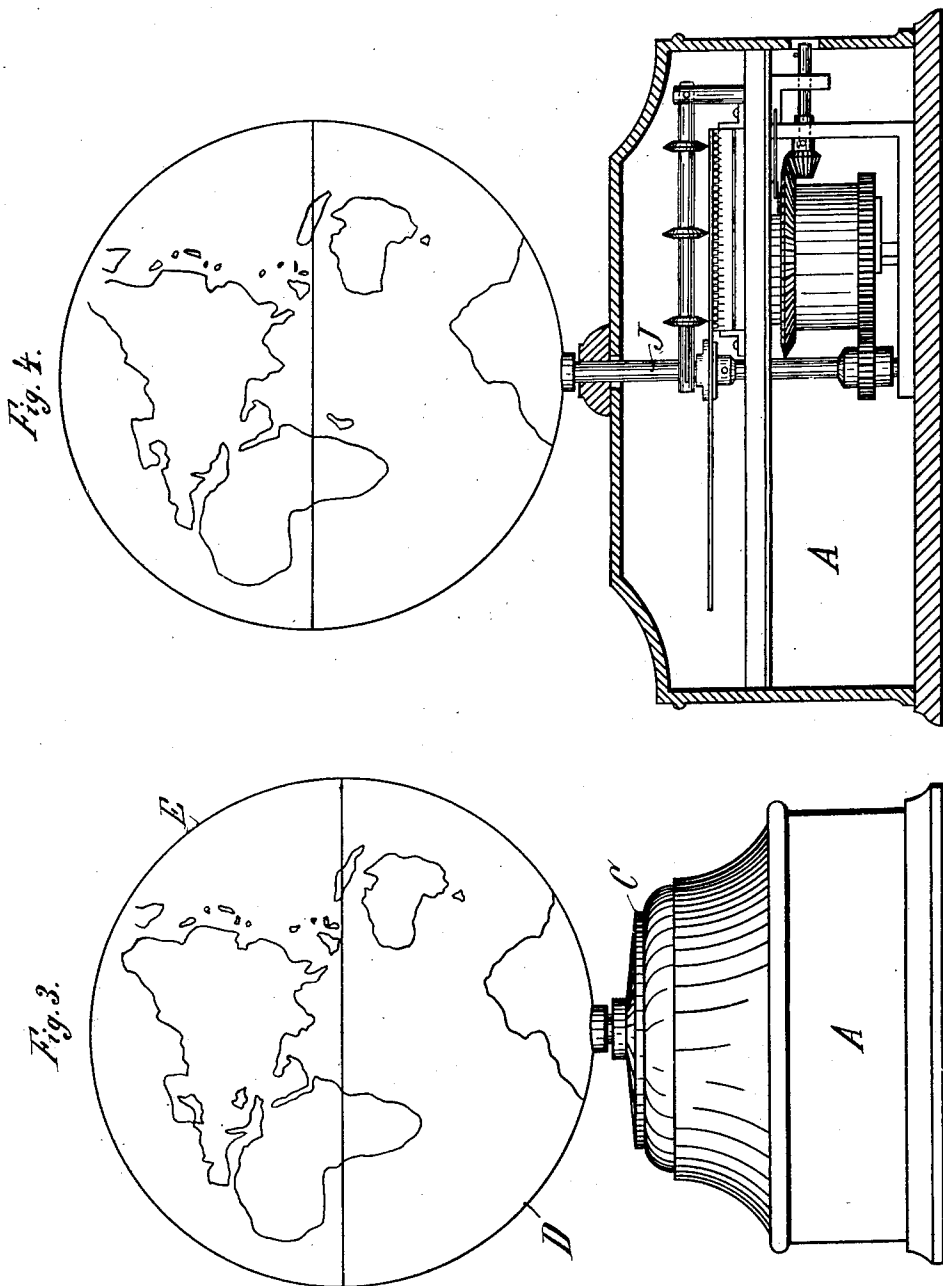
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Wm. W. W. W.
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UNITED STATES PATENT OFFICE.

FRANZ JULIUS HERTEL, OF LEIPSIC-GOHLIS, GERMANY, ASSIGNOR TO
EMIL FIEDLER, OF KLINGENTHAL, GERMANY.

INCASEMENT OR HOUSING FOR MECHANICAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 653,348, dated July 10, 1900.

Application filed June 6, 1899. Serial No. 719,624. (No model.)

To all whom it may concern:

Be it known that I, FRANZ JULIUS HERTEL, a subject of the King of Prussia, Emperor of Germany, residing at Leipsic-Gohlis, Kingdom of Saxony, Germany, have made a new and useful Improved Means for Rotating the Housings of Mechanical Musical Instruments, of which the following is a full and exact specification.

10 The present invention relates to mechanical musical works; and it consists of the details of construction, as hereinafter set forth, and particularly pointed out in the claim.

In order to render the present specification more easily intelligible, reference is had to the accompanying drawings, in which similar letters of reference denote similar parts throughout the several views.

Figure 1 is a sectional plan of the housing; Fig. 2, a sectional elevation, and Fig. 3 a side elevation, of the same. Fig. 4 is a sectional elevation of a modified form of the device.

25 The stand or pedestal A is provided with an upwardly-extending stem B, on which the spherical housing consisting of the two halves D and E is mounted to rotate. The two halves of the sphere D E are hinged together and may be fastened together in any convenient manner. To the upper end of the stem B is fixed a supporting frame or standard F, on which the comb or series of metallic tongues G, from which the sound is produced, are mounted, being sustained on suitable pillars. In the space between the tongue-plate G and the top of the table F the musical works, of any known construction, are mounted, said works serving to turn the note-disk-supporting spindle J, carrying the note-disk H, which produces the tune in the well-known manner. The note-disk is retained in the proper position by means of the pivotally-mounted bar L in the usual way, and the spindle J extends above the bar L and is provided with a square, as at M—i. e., the upper end of the said spindle is square in cross-section and adapted to fit into a correspondingly-

shaped socket formed at about the center of a cross-bar N, mounted in the upper half of the sphere D E.

50 The musical works are of the ordinary construction and require no further description. When the spring has been wound up and the works set in motion, the disk will be turned in the ordinary manner and produce the tune, and the square end of the spindle J will cause the sphere to revolve.

The effect of the spherical casing is to improve the acoustic effect of the instrument, in that the waves of sound are much more advantageously distributed than is the case with the ordinary rectangular casings.

The exterior casing of the works may be painted or otherwise made to represent the globe, so that in addition to the music the motion of the earth around its axis may be illustrated.

The stem or pivot B is advantageously supported in a plate C at the top of the pedestal or supporting-housing.

As shown at Fig. 4, if it is not required to improve the acoustic effect of the instrument the musical works may be mounted within the pedestal A and the spindle J prolonged so as to form a substitute for the spindle B, the globe being mounted on the upwardly-extending end of the said spindle.

I claim as my invention—

In a mechanical musical works having a note-disk and a central disk-supporting spindle and means for rotating the same, the combination of a spherical housing having two halves hinged together, a square end to the said works-spindle and a cross-bar in the said housing having a square socket to fit onto the said spindle end when the two halves are closed in the manner and for the purpose substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

FRANZ JULIUS HERTEL.

Witnesses:

MORITZ SPREER,
RUDOLPH FRICKE.