

No. 825,065.

PATENTED JULY 3, 1906.

A. MAÎTRE.

SOUND REPRODUCING DISK FOR GRAMOPHONES.

APPLICATION FILED APR. 18, 1905.

FIG. 1.

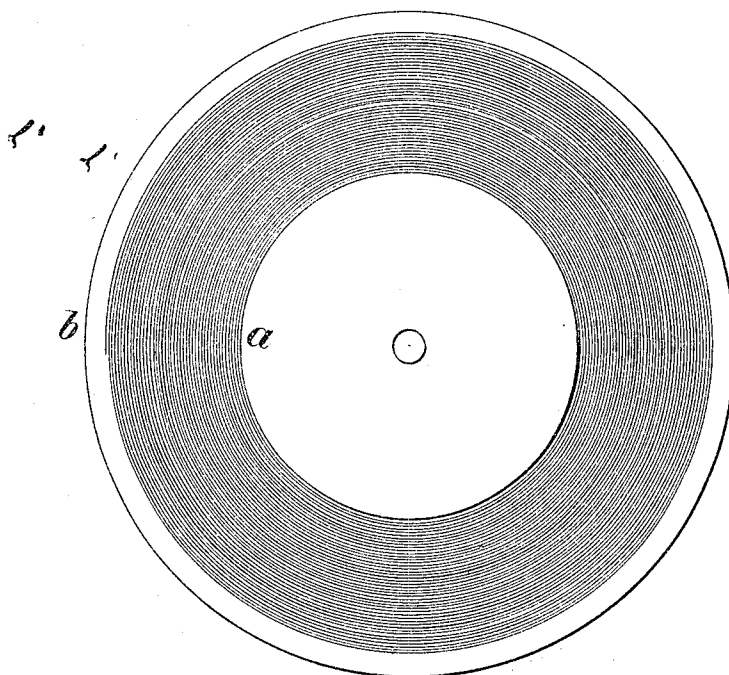


FIG. 2.



WITNESSES:

Ired White
René' Mune

INVENTOR.

Achille Maître

By his Attorneys

Arthur C. Fraser & Co.

UNITED STATES PATENT OFFICE.

ACHILLE MAÎTRE, OF DÉLEMONT, SWITZERLAND.

SOUND-REPRODUCING DISK FOR GRAMOPHONES.

No. 825,065.

Specification of Letters Patent.

Patented July 8, 1906.

Application filed April 18, 1905. Serial No. 256,219.

To all whom it may concern:

Be it known that I, ACHILLE MAÎTRE, a citizen of the Swiss Republic, and a resident of Délemont, Jura Bernois, Switzerland, have invented certain new and useful Improvements in the Sound-Reproducing Disks for Gramophones, of which the following is a true, full, and complete specification.

The distinguishing feature of this invention consists in that the sound-reproducing disk has each of its two faces constructed as a spirally-grooved working surface in the form of a truncated cone.

A first object which is attained by this special formation of the disk-faces is to enable the disk to be used on each of its two faces, with the effect of enabling the receiving-stylus to follow more easily the spiral grooves, owing to the inclination of the grooved parts, and at the same time to diminish the friction thereof, because the declivity or inclination of the grooved working faces of the disk aids somewhat in the motion of the receiving-stylus.

Another great advantage of this double-cone disk consists in that the latter has in its middle portion relatively great thickness, so that it is very solid and resists well breaking and bending strains, during its manipulation or under other influences.

In the accompanying drawings, Figure 1 represents by way of example the preferred form of the improved disk in plan view, and Fig. 2 is an elevation of the same viewed edgewise.

In the construction shown the disk is provided upon both faces with spiral grooves for the purpose of reproducing two airs, these faces being inclined to form each a working surface in the form of a truncated cone. This inclination of both the disk-faces is arranged in such a manner that the thickness of the disk in its grooved part diminishes gradually from the point *a* to the periphery *b*, whereby the disk possesses in its middle portion a relatively great thickness. For both working faces of the disk the reproducing-stylus will travel from the inner end of the spiral to its outer end.

The disk of my invention is intended to be mounted upon a stationary shaft which can only perform rotary motion around its geometric axis.

What I claim is—

An improved sound-reproducing disk for gramophones, having each of its two faces constructed as a spirally-grooved working surface in the form of a truncated cone, the thickest portion of the disk being at the center and the thickness diminishing toward the periphery, so as to provide a maximum strength and stiffness.

In witness whereof I have hereunto signed my name, this 4th day of April, 1905, in the presence of two subscribing witnesses.

ACHILLE MAÎTRE.

Witnesses:

- GEO. GRIFFORD,
AMAND BRAUN.