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D. TULCHIN

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TEXT CHART FOR PHONOGRAPHS

Filed Aug. 28, 1926

Fig. 1.

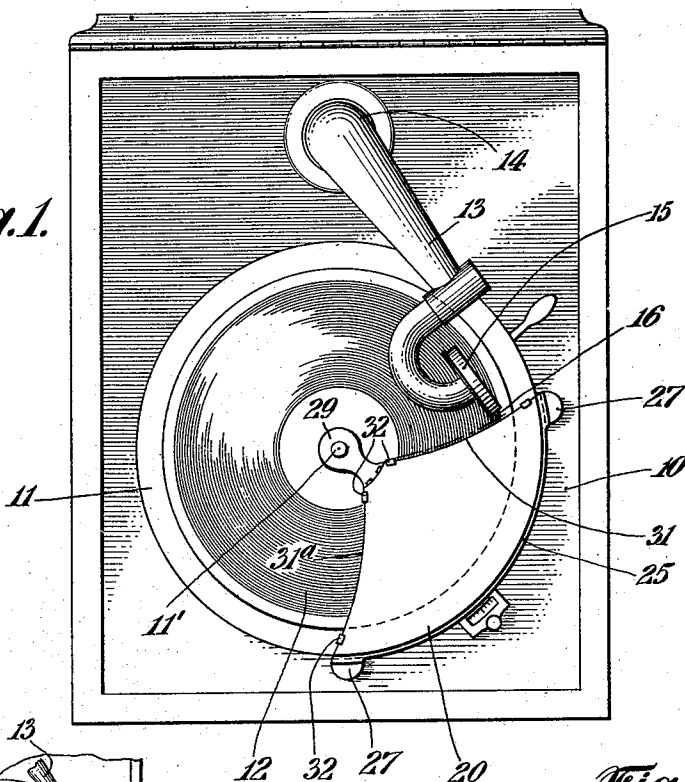


Fig. 3.

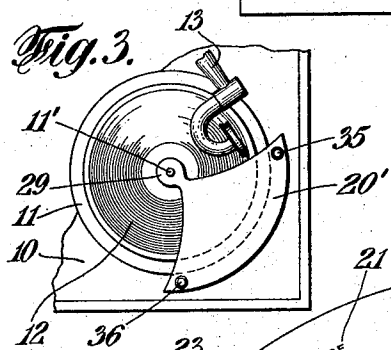


Fig. 2.

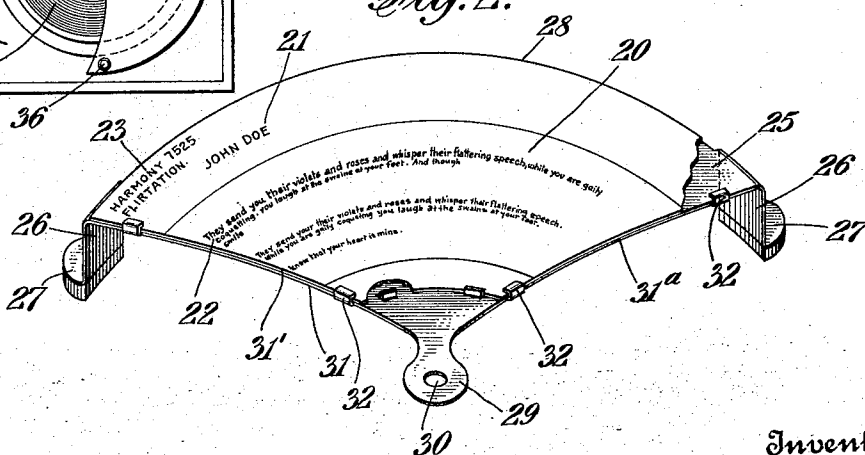
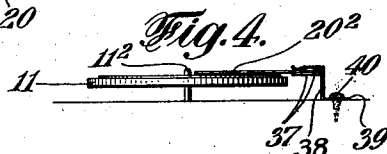


Fig. 4.



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TEXT CHART FOR PHONOGRAPHS

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It is a primary object of the invention to provide a phonograph accessory by which the text of or associated with the record may be conveniently read as the playing of the record progresses, and in which the text associated with the particular passage being played at any instant is automatically indicated.

It is another object to provide an accessory of the character mentioned of extremely simple construction readily applicable to any conventional construction of phonograph without modification or mutilation of the latter.

While the invention is of general application for phonographic records of all types, it is especially serviceable in the use of foreign language instruction records and for the singing accompaniment of musical records.

In the accompanying drawings:

Fig. 1 is a plan view of a phonograph with my attachment applied and in use,

Fig. 2 is a perspective view of the attachment apart from the phonograph,

Fig. 3 is a plan view of an alternative form of the invention, and;

Fig. 4 is a side elevation showing a further alternative embodiment.

Referring now to the drawings, I have shown in Fig. 1 a conventional motorboard 10 with a turn table 11 operated from a turntable shaft 11', a record 12 being shown in place thereon. The conventional tone arm 13 is shown pivoted at 14, the sound box appears at 15 and the stylus thereof at 16.

According to my invention, there is provided for each record, a card or chart 20 of cardboard, celluloid or the like, on which the text, verbal or musical, of or associated with the record is disposed, so that each word, musical notation, or passage is readily correlated by the user with the record groove associated with or playing the same. For convenience, the chart is of sector-shape, extending through an angle preferably considerably less than 180 degrees directly over the record being played, so that a person at one side of the phonograph can readily read the text on the chart without having to turn or crane his neck. Preferably the text 22

is disposed along arcs 21 corresponding to the approximate curvature of the associated playing grooves of the record. With records of the dimensions in ordinary use the letters of the printed words may be and preferably are approximately $3/32''$ high (brevier type) the text being on lines spaced $5/32''$ apart, there being approximately 15 words to the line. The printed text is thus easily legible. By placing less words on a line, even larger type may be used, but I have found the arrangement specified satisfactory for my purpose.

By the arrangement set forth the stylus of the playing phonograph serves as an index or pointer for indicating the line at which the instrument is playing.

For correctly disposing the chart relative to the record, I may employ a support structure comprising a sector-shaped plate of sheet metal 25 having legs 26 and feet 27 of friction material, so as to have a stable support on the motorboard, the outer arc 28 of the sector corresponding to that of the turntable and extending in close proximity thereto. Preferably the inner end or apex 29 of the sector is rounded in the form of an eyelet as shown and has a depression or bearing 30 in its under surface to rest on top of the rotating turntable shaft end 11'. The lateral edge of the sector-shaped support is preferably curved, as shown at 31 along the locus traversed by the stylus, as the phonograph plays. The chart has a corresponding curvature 31' and is firmly and accurately held on the support by integral clips or tongues 32 struck up or out therefrom. Preferably the outer rim or arc of the text chart, that is the part extending beyond the record rim, carries the title and number of the record as at 23.

It will be clear, that each record has an associated text chart 20. For use, the chart of the record being played is slipped in place between tongues 32, and the support is placed upon the motorboard 10, its edge 31 being brought against the stylus 16, and the apex 29 of the support being superposed over the turntable shaft end.

A person standing at the side of the

phonograph then has an unimpeded view of the text appearing on the chart and the stylus at any instant will point to the line being played. The utility of this device for the learning of foreign languages by phonograph records will be immediately apparent. The attachment also has utility for singing of songs with musical accompaniment played by a phonograph record. It will be understood that the chart may be employed to give directions at definite parts of a record to students or entertainers, with or without other text, but the invention has a preferred application for the precise purposes disclosed.

While I have shown and described the chart support as a removable separable element, it will be understood that this support may be screwed or otherwise affixed permanently to the motorboard. In that case, the central or turntable shaft bearing 11 would be omitted in order to facilitate placing the edge of the record under the chart support and passing the central hole of the record over the turntable shaft end.

I have shown the record chart with both of its edges 31 and 31a curved. This is done not only for attractiveness of appearance, but also for rendering convenient the alternative use of either side of a text chart printed on both sides. This would be of utility for two-faced records, as is apparent, and would also be of utility for the text in two different languages for singing accompaniment of a musical record.

It will be understood that the upper surface of the chart support has preferably both lateral edges curved, as shown, for facility in engaging the edges of the correspondingly shaped chart. The support 25 may be, and preferably is faced with cloth and the edges thereof are preferably beaded or turned down to prevent injury to the fingers in handling. The chart support may have cut-out portions, to reduce weight and to render the device more ornamental in appearance.

In Fig. 3 is shown another embodiment for sustaining the record chart 20'. In this embodiment a pair of posts 35 and 36 are affixed preferably by screwing the lower ends thereof (not shown) into the motorboard. The record chart is provided with corresponding apertures to be brought into registry over the ends of the posts, and the apex 29' of the chart has a similar aperture passed over the end of the turntable shaft. The chart thus rests directly upon the turning record but is held against movement by the support posts and by the turntable shaft.

In Fig. 4 is shown a still further embodiment in which the record chart 20² which is illustratively shown as terminating short of the turntable shaft 11² is held at its outer curved edge between the jaws 37 of

a spring clamp, provided with a support leg 38 attached at its lower flanged end 29 to the motorboard as by means of screw 40.

The embodiments of record chart-holding means shown are largely illustrative and numerous other manners of disposing the chart in correct relation with respect to the record will readily suggest themselves.

It will thus be seen that there is herein described an article in which the several features of this invention are embodied, and which article in use attains the various objects of the invention and is well suited to meet the requirements of practical use.

As many changes could be made in the above construction, and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A text chart for a phonograph record, the text on said chart appearing in arcuate lines thereon, the lateral edge of said chart being arcuate along a radius corresponding substantially to that of the movement of the stylus in playing a phonograph, the beginning of each line being near said arcuate edge, the size of said text being such that the beginning of each line thereof is substantially in registry with the phonograph stylus when playing the corresponding part of the record with the chart correctly correlated with respect to the phonograph turntable.

2. A chart bearing the text played by or associated with the subject-matter of a phonograph record, the text of said chart appearing in arcuate lines, the beginning of each line being substantially superposed over the associated record part when the chart is correctly correlated with respect to the turntable.

3. A phonograph attachment comprising an arcuate record chart correlated with the record to be played, having an inner end to be supported on a rotating part of the phonograph mechanism and means supported upon the motor board for fixing the position of a portion of the chart and thereby retaining said chart against displacement.

4. A phonograph attachment comprising a support platform having a part to extend over the record to the side opposite the tone arm, said support having means for detachably mounting a chart bearing indications correlated with the record, said indications being located at the parts of the chart which register with the corresponding parts of the record.

5. In a phonograph, a support sector resting on the motorboard and having a part extending horizontally across the record, said sector having means for accurately positioning thereon a chart bearing indicia associated with the subject matter of the record, and in corresponding position, whereby the stylus in its progress will serve as a pointer indicating the subject-matter being played by the record at any instant.

6. A removable phonograph attachment comprising a sector-shaped device having legs sustained on the motorboard and a horizontal platform part to extend over the record, said attachment serving for mounting a chart bearing text associated with the record and having the commencement of each line thereof registering with the corresponding part of the record.

7. A phonograph attachment comprising a sector-shaped device having legs resting on the motor board and having a platform part extending above the record with an apex embossed to rest upon the upper end of the turntable shaft, said support having an arcuate edge to extend along the locus of movement of the stylus, said support adapted to mount a card with indicia correlated with the various parts of the record being played and indicated by the position of the stylus.

8. As an article of manufacture, a support for carrying the text associated with a phonograph record, said support comprising a sector-shaped device having friction-feet resting on the motorboard and having a flat part extending horizontally over the record with its extremity supported on the turntable shaft.

9. As an article of manufacture, a support for carrying text associated with a phonograph record, said support comprising a sector-shaped device having friction feet resting on the motor board and having a flat part extending horizontally over the record with its extremity supported on the turntable shaft, both of the lateral edges of said support being formed along arcs equal to that of the radius of movement of the phonograph stylus.

10. A support for the text chart of a phonograph record, said support comprising a sheet metal base with legs supporting the same on the motor board and an auxiliary supporting end to rest on top of the turntable shaft and holding means on said support for retaining in correct position relative to the record being played a chart corresponding to said record.

Signed at New York city in the county of and State of New York this 27th day of August, A. D. 1926.

DAVID TULCHIN.