

PATENT SPECIFICATION



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440,998

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Complete Specification Accepted: Jan. 9, 1936.

COMPLETE SPECIFICATION

Improved Electric Pick-up for Phonographs

We, **FABBRICA ITALIANA MAGNETI MARELLI**, an Italian body corporate, of 22, Corso Venezia, Milan, Italy, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The invention relates to an electric pick-up for a phonograph which pick-up is according to the invention provided with a source of light inside the pick-up casing for illuminating the region surrounding the needle with the object of facilitating correct placing of the said needle in the groove of the record to be produced. Preferably, the said casing comprises, near the needle, an aperture through which a beam of light is directed towards the region surrounding the needle.

The source of light is thus obscured from view and is protected from outer influences, and the illumination is localised to the region surrounding the point of the needle, thereby ensuring the greatest efficacy for this illumination.

The accompanying drawing shows by way of example a form of construction of the invention in section along the axis of the pick-up.

As illustrated in this figure, housed in the casing 1 of the pick-up 2 is an electric lamp 3 suitably fed by a lead 4 connected to an appropriate source of supply. In proximity to the needle 5, the said casing is provided with an aperture 6 through which the light emitted by the

lamp 3 forms a beam of light directed towards the region surrounding the needle.

In the case illustrated, the pick-up is of the electromagnetic type comprising a magnet 7 having a winding 8 and an armature 9 mounted between its pole pieces, the needle 5 being fixed in the armature 9 by means of a screw 10.

In the form of construction shown, the source of light consists of an electric lamp, but it may also consist of any other appropriate luminous or luminescent body.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A pick-up for a phonograph in which a source of light is housed in the pick-up casing and adapted to cast a beam towards the region surrounding the needle.
2. A pick-up as claimed in claim 1, in which the wall of the said casing comprises in proximity to the needle an aperture for the formation of the beam of light.
3. The pick-up for phonographs substantially as described or substantially as shown in the accompanying drawing.

Dated the 23rd day of July, 1935.

ERNEST HEY,

Chartered Patent Agent.

Reference has been directed, in pursuance of Section 7, Sub-section (4), of the Patents and Designs Acts 1907 to 1932, to Specification No. 340,826.

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[Price 1/-]

[This Drawing is a full-size reproduction of the Original.]

