E. J. SMITH

MUSIC STAND AND LIGHT SUPPORT.

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Fig. 1

Fig. 2

Fig. 3

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To all whom it may concern:

Be it known that I, Edward J. Smith, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Music Stands and Light Supports, of which the following is a specification.

This invention relates to music stands or the like, and comprises a music stand provided with electric lights for the purpose of illuminating the music or other matter on the stand. It is old in the art to equip a music stand with a lighting attachment, but many of these are objectionable for various reasons, among which may be mentioned that the page is unevenly lighted, and the lamp is placed in such position that it obstructs the view of the player with respect to the orchestra leader. The object therefore of the present invention is to provide an improved stand equipped with lamps in such manner that the page is fully and evenly illuminated, and the lamps are so disposed that they afford no obstruction between the musician and the orchestra leader. The device will be found especially useful in moving picture orchestras where the general illumination is dim and individual lights necessary. The article also has advantages with respect to rigidity and cheapness of construction, all of which will more fully appear from the following description.

In the accompanying drawings Figure 1 is a perspective view of the stand with the lamp attachment. Fig. 2 is a separate elevation of the standard and lamps. Fig. 3 is a vertical section of the head of the stand. Fig. 4 is a detail in elevation of the pipe connections and the bracket for the head. Fig. 5 is a detail in section of one of the lamp shades. Fig. 6 is a bottom plan view of the base of the shade.

In the drawings, 6 indicates a tubular standard supported on feet 7 and receiving the adjustable tubular upper section 8 of the standard. The top of this section is connected to a special fitting shown especially in Fig. 4, consisting of an inclined head plate 9 and an integral T 10 into which the pipe section 8 is screwed, and the branches of this fitting receive the tubular lamp arms 11 which extend outwardly at each side and then upwardly beside the rack or board 12 which is fastened to the head 9 by screws or the like inserted through holes 13 in the head.

Each arm 11 is provided at its upper end with a socket 14 which receives the lamp bulb 15, and the conducting wires 16 are extended through the standard sections 6 and 8 and the arms 11, to the lamps. Suitable switches may be provided at any place on the line to control the lamp circuits, one 65 of said switches being indicated at 17. The wiring connections are thus housed or enclosed in the tubes, and there are no exposed or loose wires around the upper part of the stand.

Each lamp is provided with a shade consisting of an upper reflector part 18 and a lower or base part 19, the latter of which rests at 20 on the neck of the bulb 15, and has a flange 21 fitting around the lower edge of the shade 18, and this base is provided with an opening 22 through which the light is reflected, as indicated in Fig. 5, toward the board 12. The shade thereby completely covers the lamp, except at the opening 22, and the light through said opening is reflected directly on to the pages on the stand, the shade 18 being provided with an inner reflecting surface. By the use of two lamps, one of which is at each side of the stand, the pages are completely and evenly illuminated; furthermore the location of the lamps at the sides of the stand do not obstruct the view of the player toward the orchestra leader. The whole provides a strong rigid support for both the music and the lamps. Various changes may be made in the structure within the scope of the invention, and no limitation in this respect is implied.

I claim:

1. The combination with a music stand, of means to illuminate the same by direct and indirect rays, comprising lamps at opposite sides of the head of the stand, each of said lamps being provided with a shade having an inner reflecting surface and a bottom having an opening located in the line of direct rays from the lamp to the middle portion of the head of the stand.

2. The combination with a music stand having a hollow standard and a rack at the top thereof, a pair of tubular arms extending from the top of the standard and under the rack and upwardly beside opposite ends.
of the rack, an electric lamp on the upper end of each arm, conductors extending through the standard and arms to the lamps, and a shade on each lamp having a closed bottom with an opening therein located between the lamp and the rack.

3. A music stand having a rack at the top thereof and a lamp supported at each end of the rack, each lamp being enclosed in a bell-shaped shade having a reflecting surface and a bottom provided with an opening between the lamp and a definite area of the rack, whereby a portion of the rack receives direct illumination from the lamps and the remainder receives indirect illumination from the reflecting portion of the shade.

4. A music stand having a rack at the top, and a pair of lamps supported above and beside each end of the rack, each lamp being provided with a light-proof reflecting shade having a closed bottom provided with an opening between the lamp and the rack, whereby the rack is illuminated from opposite sides, the size of the openings being such as to confine the direct rays of the lamps to the middle portion of the rack, and the shades having convex reflecting surfaces adapted to reflect rays through said openings to the end portions of the rack.

In testimony whereof, I do affix my signature in presence of two witnesses.

Witnesses:

EDWARD J. SMITH.

JOHN A. BOMMHARDT,

EDWARD I. HOBDAY.