(No Model.)

I. G. LAWSHE.

TIME INDICATING DEVICE FOR MUSICIANS.

No. 445,119. Patented Jan. 20, 1891.

Fig. 1.

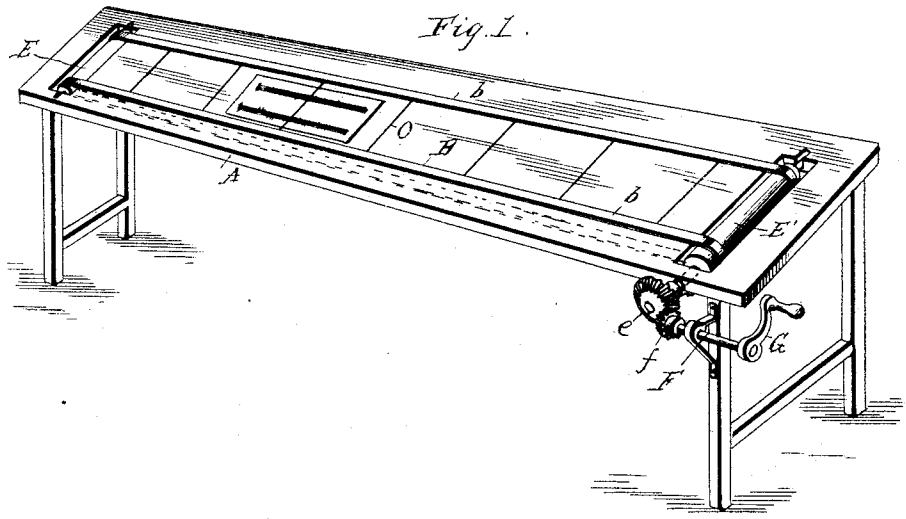
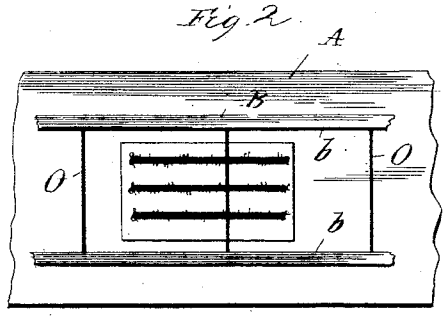


Fig. 2.



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ISAAC G. LAWSHE, OF SIOUX FALLS, SOUTH DAKOTA.

TIME-INDICATING DEVICE FOR MUSICIANS.

SPECIFICATION forming part of Letters Patent No. 445,119, dated January 20, 1891.

Application filed October 17, 1889. Serial No. 327,301. (No model.)

To all whom it may concern:

Be it known that I, ISAAC G. LAWSHE, a citizen of the United States, residing at Sioux Falls, in the county of Minnehaha and State of South Dakota, have invented certain new and useful Improvements in Time-Keeping Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to time-indicators for orchestra and other bands of music and for individual players.

The object of the invention is to provide a simple means for indicating time accurately and for keeping a full band and each and every member of it in perfect time throughout the piece played.

The improvement consists of the novel features which hereinafter will be more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a perspective view showing the application of my invention; Fig. 2, a detail view showing the operation of the invention.

A represents a suitable music-support, being of proper size and construction.

B is the carrier, that is adapted to move on the support in the desired direction, preferably from left to right, in the direction in which the music is read. This traveling carrier is operated by mechanism that will give it an even and uniform motion to indicate the required time accurately and measure for measure. In the present instance the carrier is shown as being an endless band, which passes over rollers E and E′ at the ends of the support. One of these rollers, as E′, is driven by any well-known force and imparts its motion to the carrier. For convenience of illustration the roller E′ is shown provided with gear-wheel *e*, which meshes with pinion *f* on shaft F, the latter being turned by hand by means of crank G, which is applied thereto.

The carrier B is provided at intervals in its length with markers O, which are carried over the music at a speed corresponding to the time in which the said music is to be played. The carrier is composed most generally of two members *b b*, which are arranged one near the top, the other near the bottom of the support, and the markers are secured at their ends to the said members *b b*.

The music is placed on the support beneath the indicator and the latter is set in motion to indicate the proper time.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with music held stationary, of a time-indicator composed of a traveling carrier and markers, substantially as described.

2. The combination, with music held stationary, of a time-indicator comprising an endless carrier having markers, substantially as set forth.

3. A time-indicator for music, composed of an endless carrier comprising two members, and markers secured at their ends to the said members, substantially as described.

4. The combination, with the music-support and the rollers E and E′, the roller E′ being driven by suitable power, of the endless carrier having markers passing around said rollers and receiving motion from the roller E′, substantially as described.

In testimony whereof I affixed my signature in presence of two witnesses.

ISAAC G. LAWSHE.

Witnesses:
M. A. STICKNEY,
FRED. E. HUNTER.