

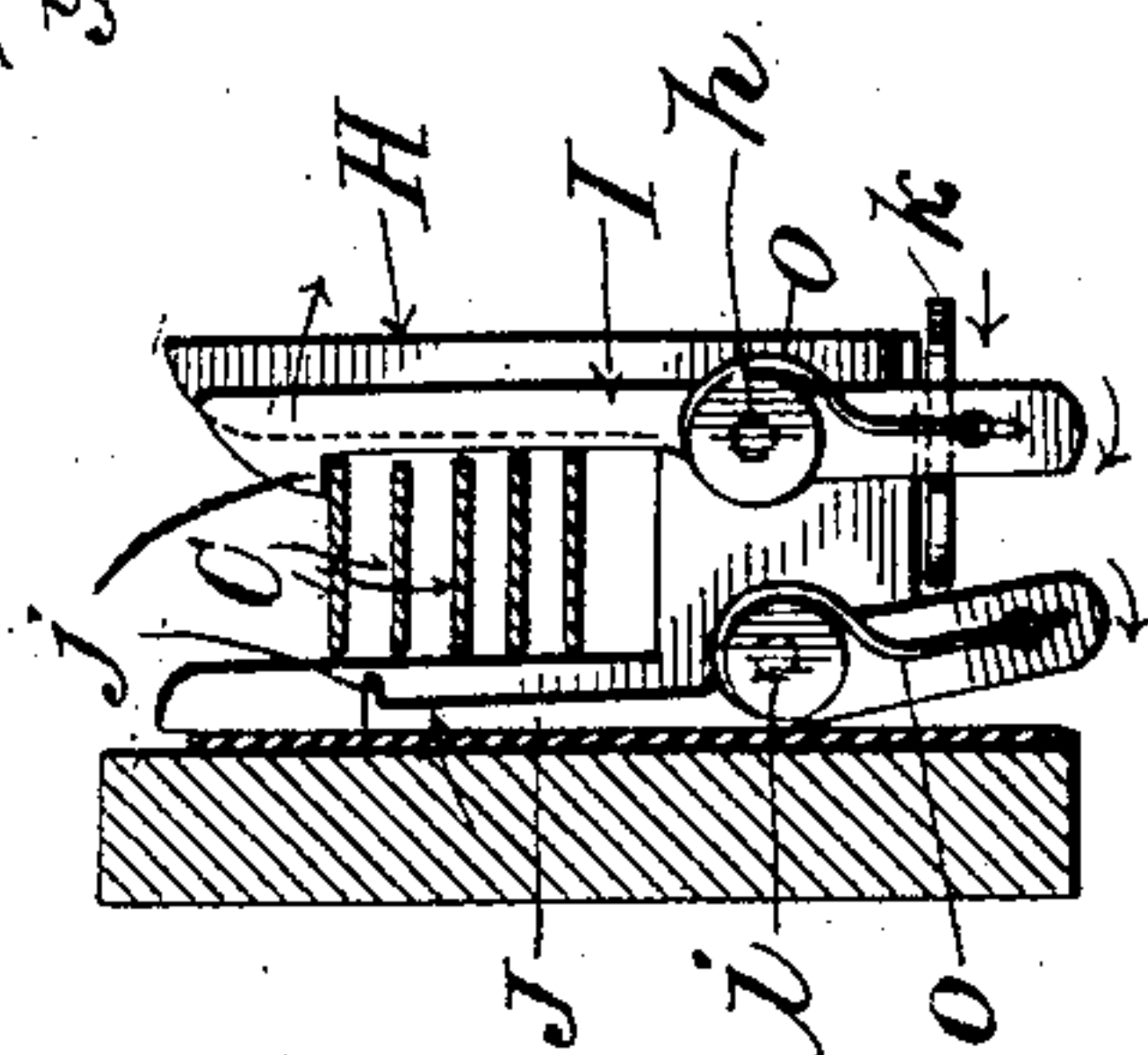
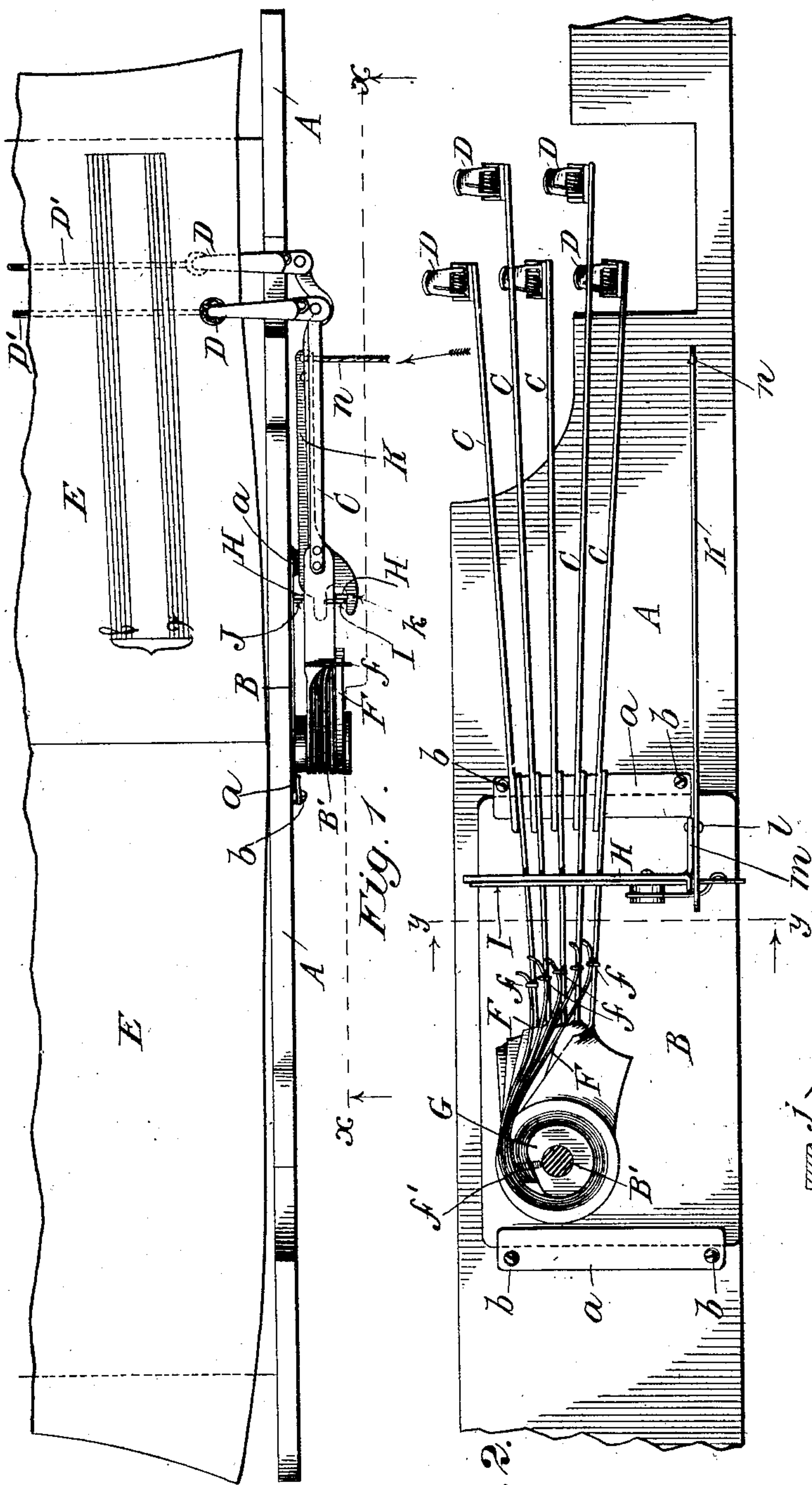
No. 705,023.

Patented July 22, 1902.

C. E. BERTOGLIATTI.
MUSIC SHEET TURNER.

(Application filed Mar. 15, 1902.)

(No Model.)



Witnesses
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Fig. 2.

Fig. 3.

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MUSIC-SHEET TURNER.

SPECIFICATION forming part of Letters Patent No. 705,023, dated July 22, 1902.

Application filed March 15, 1902. Serial No. 98,300. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. BERTOGLIATTI, a resident of the city of New York, borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Music-Sheet Turners, of which the following is a specification.

My invention relates to leaf or page turning devices, more particularly adapted for turning the pages or leaves of music; and the object of the invention is to provide a simple, inexpensive, and efficient device of the character specified.

To these and other ends, which will hereinafter appear, my invention consists in the novel details of improvement and combination and arrangement of parts hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a front elevation of one form of device embodying my invention, the view illustrating the device mounted in place and in condition to be operated. Fig. 2 is a bottom view of the same on an enlarged scale, partly in section, taken on line *x x* of Fig. 1; and Fig. 3 is a transverse sectional view of the device on the line *y y* of Fig. 2.

Like letters of reference indicate similar parts in the several figures.

In the accompanying drawings, A indicates the ordinary music rack or support which is usually employed upon pianos and like instruments. Secured to the bottom of this rack A are guideways or brackets *a*, which may be secured to the rack by suitable screws *b*. A base-plate B is adapted to be slid within these guideways or brackets *a* and be supported in place thereby. The plate B supports a pivot *B'*, on which are pivoted the leaf-turning arms C, which are provided at their free ends with suitable clips, clamps, or other engaging devices D and upwardly-projecting arms D', which are adapted to pass behind or in the rear of the leaves or pages E, as indicated in dotted lines in Fig. 1, so as to constitute a support therefor. The clamping devices D engage the lower edges of the sheets, and thus securely connect a page with each of the arms C. The various arms are each connected at *f* to the free end of a spring F, which springs are secured at *f'* to a hub G, which surrounds

and is rigidly secured to the pivot *B'*. The tension of each of these springs is exerted to move its respective arm in the direction of the arrow in Fig. 2. The arms C when moved to the position represented in Fig. 1 are under tension of their respective springs and are received within a fixed guideway H, that is secured to and depends from the plate B. Pivoted to this guide-plate at *h i* are two pallets or escapement-arms I J, that are each provided with a hook-like engaging end *j*, that is adapted to cooperate with the arms, as represented in Fig. 3. The opposite ends of each of these pallets or escapement-arms cooperate with the free forked end *k* of a lever K, which is pivoted at *l* to a laterally-extending arm *m*, which projects from the guide H. The opposite end of this lever may be connected by a suitable cord or connection *n* to a treadle or other suitable device for moving it. The relation of the arms formed by the forked portion *k* to the escapement-arms I J is such that a downward movement of the outer or free end of the lever K will cause the escapement-arm I to be moved so that the hooked end *j* thereof will release the first of the series of arms C. The same movement of the lever will likewise effect a depression of the hooked end of the escapement-arm J, thereby bringing the hooked end *j* thereof into the path of the next adjacent arm C. The first of the arms having been released in the manner described, the tension of its spring will be effective to turn it on its pivot from the position shown in Fig. 3 a half-circle, thereby turning the leaf which is carried by and clamped to this arm. The depression of the treadle or the downward movement of the outer free end of the lever K is effective to produce this movement. When the pressure on the treadle is released, the springs *o* will restore the escapement-arms I J to the position represented in Fig. 3 and will likewise restore the actuating lever K to the position represented in Fig. 1. During this movement of restoration of the parts the hooked end of the escapement-arm I will be interposed in the path of the next vibratory arm C as the hooked end of the escapement-arm J is moved from its path. It will be observed that the escapement-arms described are, in effect, a single escapement device which is in the nature of an anchor-

escapement. It will be seen that each movement or depression of the free end of the actuating-lever K is effective to release one of the leaf-turning arms C, so that the leaf or page 5 which is connected thereto may be turned. After all of the sheet-turning arms have been released in the manner described they may be restored to the normal position by simply turning them on their universal pivot B' to 10 the normal position, (represented in Figs. 1 and 2,) when they will be placed under tension of their springs and are again ready for operation.

It will be understood that any suitable 15 number of leaf-turning arms C may be employed and that various other modifications may be made without departing from the spirit of the invention.

While I have shown and described one 20 means for connecting the plate B to its support A, it should be understood that any suitable means may be provided for this purpose. It is desirable, however, that means be employed which will enable the plate B, with

the parts carried thereby, to be readily attached to or detached from its support, so as to enable the leaf-turning device as a whole to be easily placed in position or removed, as desired. 25

Having now described my invention, what I claim, and desire to secure by Letters Patent, is— 30

In a leaf-turning device, a plurality of spring-actuated arms and means carried thereby which grasp in each instance a sheet 35 of music in combination with two pawls I J, arranged on opposite sides of the said arms for holding the latter motionless against the stress of the said springs, and a lever having a bifurcated end for operating the said pawls 40 alternately to release the said arms individually in succession after the manner of an anchor-escapement as the said lever is depressed substantially as set forth.

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