

No. 677,840.

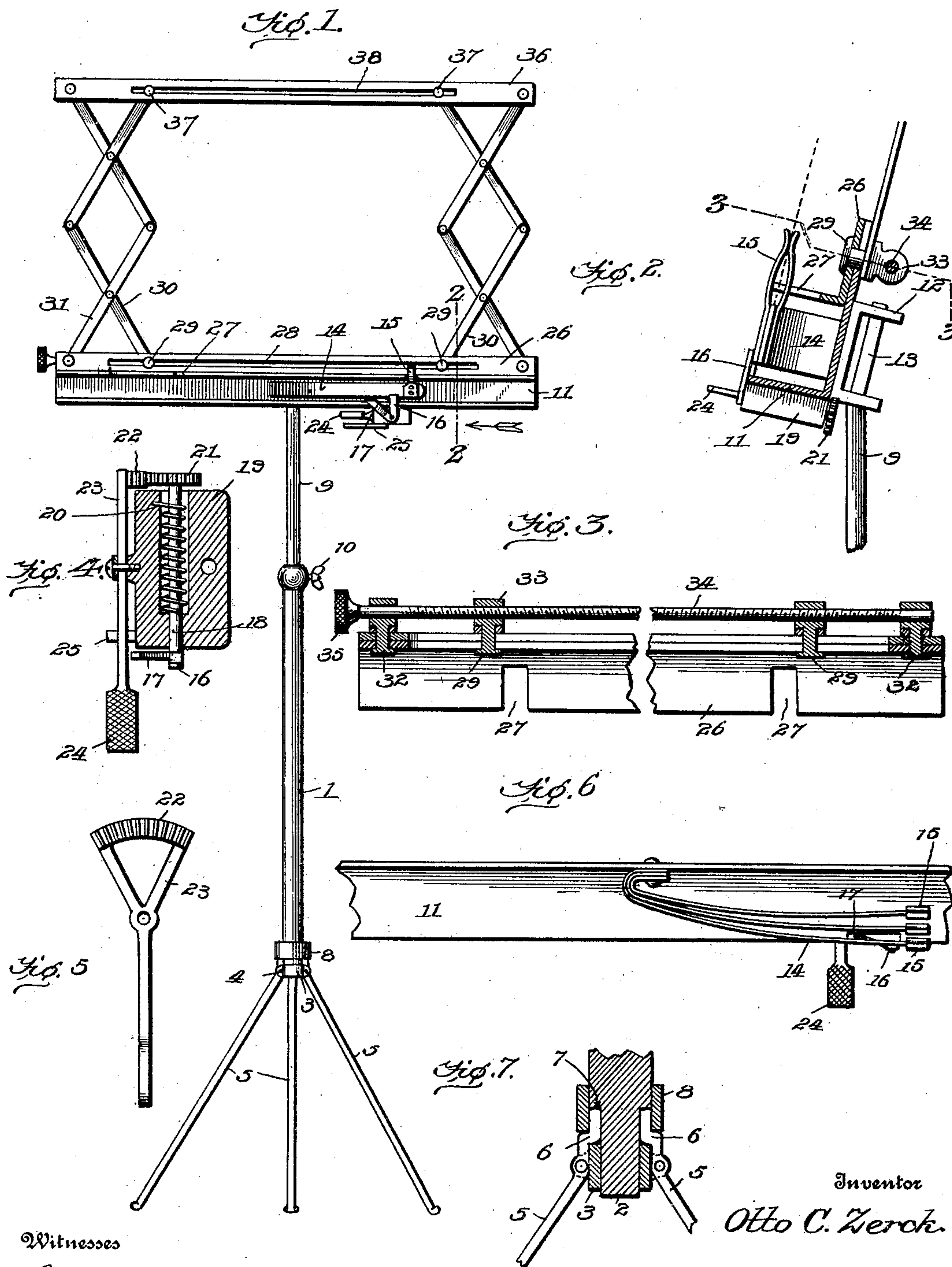
Patented July 2, 1901.

O. C. ZERCK.

COMBINED MUSIC STAND AND MUSIC LEAF TURNER.

(Application filed Oct. 24, 1900.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

OTTO CHARLIE ZERCK, OF CHICAGO, ILLINOIS.

## COMBINED MUSIC-STAND AND MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 677,840, dated July 2, 1901.

Application filed October 24, 1900. Serial No. 34,190. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO CHARLIE ZERCK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in a Combined Music-Stand and Music-Leaf Turner, of which the following is a specification.

This invention relates to new and useful improvements in combined music-stands and music-leaf turners; and the primary object thereof is to provide a holder which may be adjusted to sheets of various sizes and having a leaf-turner which may be readily operated by the performer.

With this and other objects in view the invention consists in certain novel features of construction and combination of parts, which will be hereinafter fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a front elevation of the device. Fig. 2 is an enlarged vertical section through the base on line 2 2 of Fig. 1. Fig. 3 is an enlarged section through the base on line 3 3 of Fig. 2. Fig. 4 is a plan view of the bell-crank lever and its operating mechanism, showing its supporting-block in section. Fig. 5 is an inner elevation of the operating-lever. Fig. 6 is a plan view of the base, showing the spring-strips, bell-crank lever, and the operating-lever in position. Fig. 7 is an enlarged section through the lower end of the standard.

Referring to the figures by numerals of reference, 1 is a preferably tubular standard which is reduced in thickness at its lower end, as at 2, and said reduced end is inclosed by a collar 3, having ears 4 extending therefrom in pairs, and within each pair is pivoted a leg 5 of the holder. Each leg is provided with a bayonet-like upper end 6, which is adapted to bear upon the reduced portion of the standard at a point between the sleeve 3 and the shoulder 7, formed by said reduced portion, and a sliding sleeve 8 is mounted upon the standard and adapted to extend over the ends of the legs, and thereby hold the same in the position shown in Fig. 1. It will be seen that when the sleeve 8 is moved upward the legs will be free to swing inward, rendering the device more compact.

A rod 9 is slidably mounted within the tubular standard 1 and is adapted to be locked in adjusted position in any suitable manner, as by means of a set-screw 10. A base 11, which is substantially L-shaped in cross-section, is provided upon its rear face with a bracket 12, which is adapted to receive the upper squared end 13 of the rod 9.

One or more spring-metal strips 14 are secured to the upright portion of the base at the center thereof and are provided at their free ends with paper-clips 15, adapted to clasp the lower edges of the sheets of music in position upon the holder. These spring-strips are adapted to be bent backward upon themselves and held in such position by one arm 16 of a bell-crank lever. The second arm 17 of said lever lies within a plane in rear of the front strip 14, and the end thereof is adapted to rest at a point adjacent to the lower edge of said strip.

A shaft 18 extends inward from the bell-crank lever and is journaled within a block 19, secured to the under surface of the bottom of the base. A coil-spring 20 incloses this shaft and is secured at opposite ends to the block and shaft, respectively, and is adapted to hold the arm 16 of the bell-crank lever normally in the path of the strips. A gear 21 is secured to the rear end of the shaft 18 and meshes with a rack 22, formed at one end of a lever 23, which is pivoted to the side of the block and extends forward to a point in front of the base 11. The front end of this lever is enlarged, as at 24, so that the same may be readily depressed by hand. A stud 25 extends laterally from the block 19 and serves to limit the downward movement of the lever 23.

The substantially L-shaped supporting-strip 26 is secured to the front face of the upright portion of the base 11 and is provided with slots 27, adapted to receive the paper-clips 15, before referred to. This strip, as well as the upright portion of the base 11, is provided with a horizontally-extending slot 28, within which are slidably mounted pins 29. Each pin is secured to one arm 30 of a lazy-tongs, while the remaining arm 31 is pivoted upon a stud 32, extending from the base, near one end thereof. It will thus be seen that a pair of tongs is arranged at each end



of the base. Blocks 33 are formed with the pins 29 and the studs 32, and a rod 34, having right and left hand threads extending from the center thereof, engages the sliding blocks and is revoluble within the blocks of the studs 32. This rod may be readily turned by means of a head 35, formed at one end thereof. The opposite ends of the lazy-tongs are secured to a horizontally-extending strip 36, one arm of each tongs being pivoted to said strip at one end thereof, while the remaining arm is provided with a pin 37, which is slidably mounted within a longitudinally-extending slot 38 within said strip.

Music is placed upon the supporting-strip 26, and the strip 36 is adjusted vertically by turning the screw 34 in either direction, thereby causing the lazy-tongs to be extended or retracted. The spring-strips 14 are then bent backward into the position shown in Fig. 6, and each clip 15, extending through the slot 27, is placed into engagement with the lower edge of one of the leaves of the music. These spring-strips will be held in this position by the arm 16 of the bell-crank lever, and when it is desired to turn a leaf of the music the end 24 of the lever 23 is depressed. This will cause the shaft 18 to revolve, and will throw the arm 16 out of the path of the front strip 14. As soon as this arm is removed from the path of said strip the remaining arm 17 will be brought to a point in rear of the strip and will prevent outward movement of the remaining strips. As soon as the strip 14 is released it will spring outward and will swing the clip 15 around into the remaining slot 27 within the supporting-strip 26. When the lever 23 is released, the bell-crank lever will be returned to its normal position by the spring 20, and as soon as the arm 17 of said lever drops out of the path of the strips the remaining arm will arrive in position in front of the strips and prevent movement thereof. It will be seen that this operation will be repeated whenever it is desired to turn one of the remaining leaves.

When the holder is not in use, the legs 5 may be folded inward by raising the sliding sleeve 8. The base 11 can then be slipped off of the squared end of the rod 9 and the lazy-tongs retracted, bringing the strip 36 in close proximity to the base. The parts may then be stored away, requiring but a minimum amount of space.

In the foregoing description I have embodied the preferred form of my invention; but I do not wish to be understood as limiting myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages of this invention, and I therefore reserve to myself the right to make such changes as fairly fall within the scope thereof.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. The combination with a standard; of a

base secured thereto, a supporting-strip secured to the base and having slots therein, spring-strips extending from the base and adapted to be bent upon themselves, a fastener secured to the free end of each strip and adapted to extend through the slots in the said supporting-strip, a bell-crank lever one arm of which is normally in the path of the strips and adapted to retain the same in position, and means for releasing strips one at a time from engagement with the lever, comprising a shaft on which the bell-crank lever is mounted; a gear-wheel on said shaft; a lever arranged parallel to said shaft; a rack on said lever meshing with said gear-wheel; and a retracting-spring for the shaft.

2. The combination with a standard; of a base secured thereto, spring-strips extending from the base and adapted to be bent upon themselves, a block detachably secured to the base, a shaft extending through the said block and provided at one of its ends with a bell-crank lever, the arms thereof lying in parallel planes and one of said arms adapted to lie in the path of the strips, a coil-spring within the said block inclosing the shaft, a gear secured to the shaft, a lever pivoted to the block, a rack thereto engaging the gear, and a stop for limiting the movement of the rack-lever.

3. The combination with a standard; of a base thereto, a supporting-strip secured to the base and having slots therein, spring-strips extending from the base below the supporting-strip and adapted to be bent upon themselves, clips to the strips adapted to extend through the slots in the supporting-strip, means for holding said strips in bent position and for releasing the same one at a time, a longitudinally-extending slot in the supporting-strip, a lazy-tongs one arm of which is pivoted to said strip, a pin upon the remaining arm slidably mounted within the longitudinally-extending slot, a strip hinged to one of the arms at the opposite end of the tongs and having a longitudinally-extending slot therein, a pin upon the remaining arm of said end of the tongs slidably mounted within said slot, and means for adjusting the arms of the tongs from and toward each other.

4. The combination with a standard; of a base thereon, a supporting-strip secured to the base and having slots in the bottom thereof, spring-strips secured to the base below the supporting-strip and adapted to be bent upon themselves, means for holding said strips in such position and for releasing them one at a time, clips to the spring-strips adapted to extend through the slots in the supporting-strip, a longitudinally-extending slot within the supporting-strip, pins slidably mounted therein, a screw engaging the sliding pins and threaded in opposite directions from the center, lazy-tongs each of which is hinged to a sliding block and the supporting-strip, a slotted strip pivoted to one of the arms at the opposite end of each tongs, and a pin to the



remaining arm at said ends slidably mounted within the slot in the strip.

5 5. The combination with a tubular standard; of a reduced end thereto, a sleeve inclosing said end, legs pivoted thereto, ends to the legs adapted to bear upon the reduced portion of the standard, a sliding sleeve upon the standard adapted to inclose said ends and prevent movement of the legs, a rod adjust-  
10 ably secured within the tubular standard, a squared end to the rod, a bracket detachably secured thereto, a base secured to the bracket, spring-strips extending from the base and adapted to be bent upon themselves, means

for holding the strips in bent position and for 15 releasing the same one at a time, fasteners upon the strips, a supporting-strip secured to the base and having slots therein adapted to receive the fasteners, lazy-tongs pivoted at opposite ends to the base and to a horizon- 20 tally-extending strip respectively, and means for extending and retracting the tongs.

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

OTTO CHARLIE ZERCK.

Witnesses:

THOMAS J. QUIGLEY,

HUGH NELSON CATHCART.