No. 735,853. PATENTED AUG. 11, 1903.

W. J. BELL.

SUPPORT FOR ATTACHMENT TO DESKS.

APPLICATION FILED JUNE 26, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

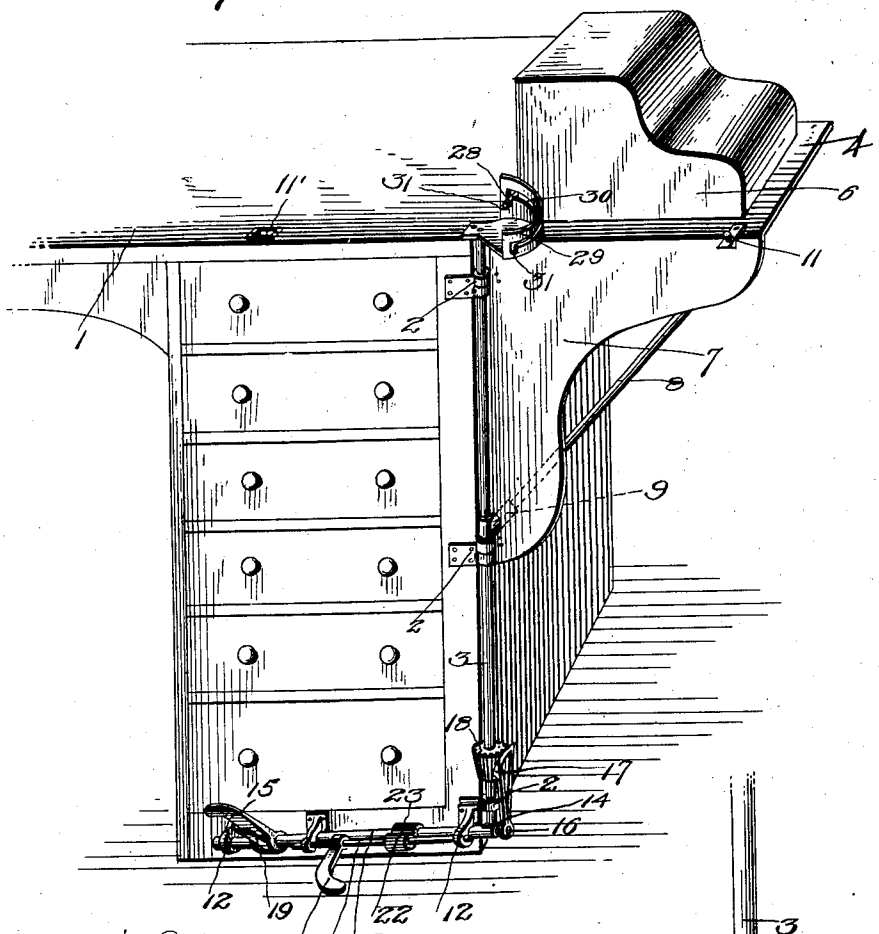
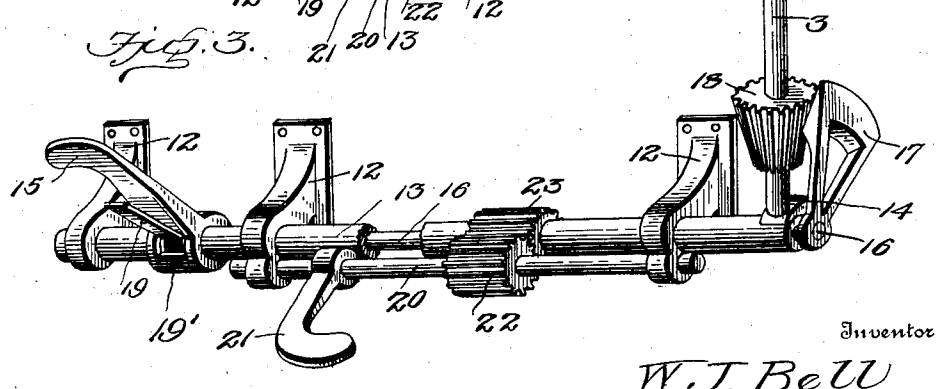


Fig. 3.



Witnesses
C. E. Hunt
Wilbur S. Hauer.

Inventor
W. J. Bell

By H. B. Williamson & Co
Attorneys

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

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APPLICATION FILED JUNE 26, 1902.

NO MODEL. 2 SHEETS—SHEET 2.

Fig. 2.

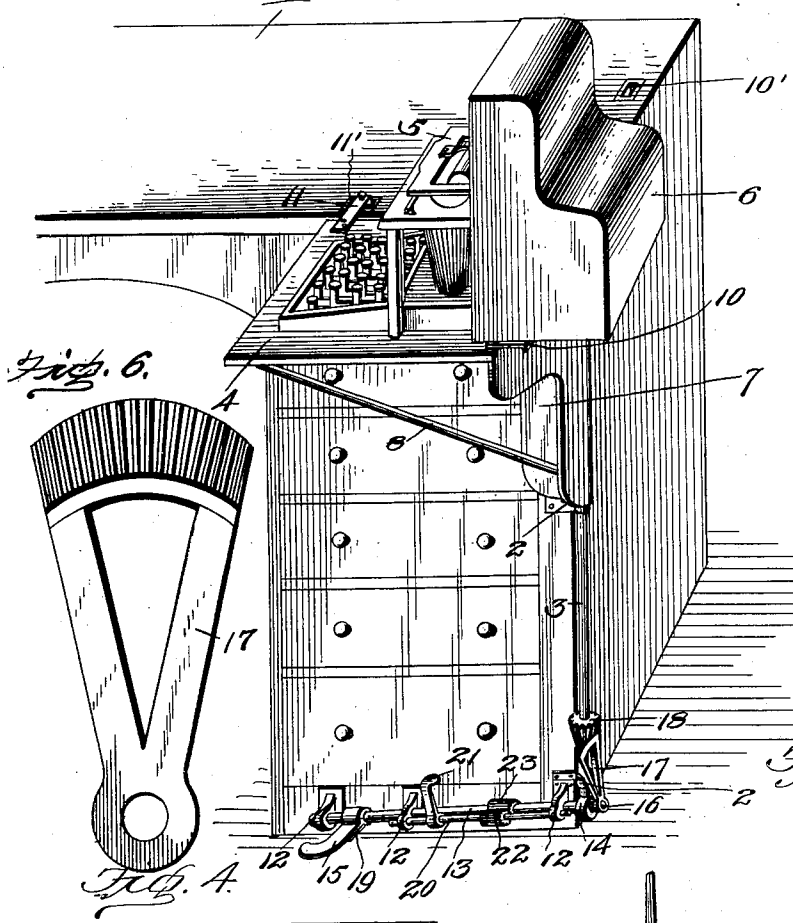


Fig. 6.

Fig. 5.

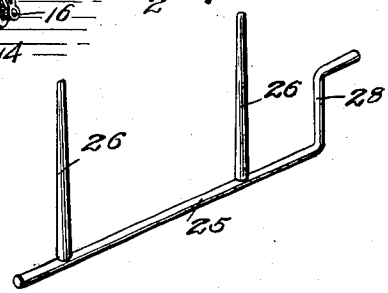
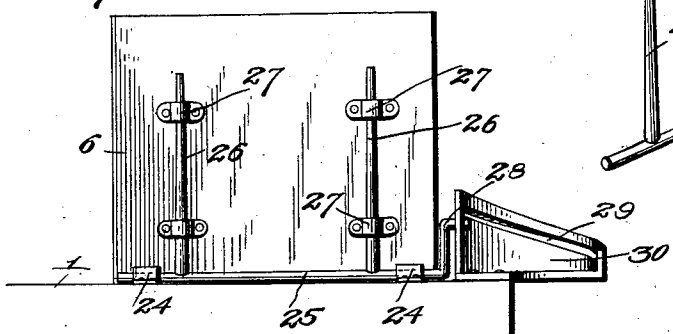


Fig. 4.



Inventor

W. J. Bell

Witnesses

C. C. Hunt

Wilbur S. Hauer

By A. B. Williamson & Co

Attorneys

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

No. 735,853. Patented August 11, 1903.

UNITED STATES PATENT OFFICE.

WILLIAM JACKSON BELL, OF TYLER, TEXAS.

SUPPORT FOR ATTACHMENT TO DESKS.

SPECIFICATION forming part of Letters Patent No. 735,853, dated August 11, 1903.

Application filed June 26, 1902. Serial No. 113,277. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JACKSON BELL, a citizen of the United States, residing at Tyler, in the county of Smith and State of Texas, have invented certain new and useful Improvements in Supports for Attachment to Desks; 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.

This invention relates to a stand, shelf, or holder for attachment to desks, &c., for the purpose of supporting a type-writer, reference-book, or any other desired article, the object in view being to provide a support of this character with means for attaching the same to a desk and means for swinging or revolving said support, so that the type-writer, book, or other article may be readily and conveniently brought around to the front of the desk for use or reference and then swung back out of the way upon the side of the desk until its use is again required.

With this and other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in certain novel features of construction and combination and arrangement of parts, which will be hereinafter fully described, defined in the appended claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a fragmentary perspective view of a desk having the support applied thereto, the support being shown in the position it occupies when the type-writer is not in use. Fig. 2 is a similar view, showing the device adjusted to bring the type-writer into position for use. Fig. 3 is an enlarged detail view of the operating mechanism. Figs. 4 and 5 are detail views of the means for applying and removing the type-writer cover. Fig. 6 is a detail view of the toothed segment.

Referring now more particularly to the drawings, the numeral 1 represents a desk which has secured thereto at one of its corners bearing-brackets 2, in which is journaled a vertical shaft 3. To the upper end of this shaft is rigidly secured a support 4, which may be in the form of a type-writer stand, book or music rack, shelf, or any other desired device for supporting any desired article, such support comprising in the present instance a stand for supporting a type-writer 5 and its removable cover 6. This stand is braced by the side brackets 7, which are suitably fixed to the shaft, and by the brace-rod 8, which is connected at its upper end to the stand at the point most remote from the shaft and is seated at its lower end in a socket 9, rigidly connected to said shaft by a set-screw or other suitable fastening. The stand is designed to be normally located at one side or end of the desk, as shown in Fig. 1, and to be swung around to the position shown in Fig. 2, so that the type-writer may be conveniently operated by a person seated at the front of the desk, who in order to face the type-writer has only to turn his seat at right angles to its customary position, as will be readily understood. The stand is provided with catches 10 11 to engage keepers 10′ 11′ on the desk, by means of which the stand is locked in its two positions.

Secured upon the front of the desk, adjacent to the base thereof, are bearing-brackets 12, having journaled therein a hollow shaft 13, which carries at one end a cam or projection 14, adapted to bear upon the lower end of the shaft 3 to lift said shaft and the stand and to thereby throw the catches out of engagement with the keepers, leaving the stand free to be swung in either direction. Secured to the hollow shaft is a pedal 15, by means of which it may be turned to bring the said cam or projection 14 into engagement with the shaft 3. The shaft 13 contains an interior rod or shaft 16, which projects through the outer end of said shaft 13 and carries a toothed segment 17, which engages a gear 18 on the shaft 3, by means of which said shaft 3 is turned to swing the stand 4. The interior shaft has attached thereto a pedal or operating device 19, which projects to the exterior through an opening 19′ in the shaft 13 and lies beneath the pedal 15, so that when said pedal 15 is depressed motion will first be imparted to the shaft 13 to cause the lug 14 to elevate the shaft 3, releasing the stand 4 from engagement and leaving it free to swing. As soon as the pedal 15 comes in contact with the pedal or operating device 19 the interior shaft 16 is then operated to swing the

toothed segment 17 in one direction to operate the gear 18 and to thereby partially rotate the shaft 3, by means of which the stand 4 will be swung from the position shown in Fig. 1 to the position shown in Fig. 2. At the end of this swinging movement the lug 14 is no longer in engagement with the shaft 3 and the latter is allowed to descend by gravity, carrying with it the stand 4 and bringing the locking device 11 into engagement with the keeper 11′, thus holding the stand secured in position for use at the front of the desk. Journaled also in the brackets 12, parallel with the shaft 13, is a retracting-shaft 20, which is provided with an operating-pedal 21 and carries a gear 22, meshing with a corresponding gear 23 on said shaft 13. When the stand 4 is swung around to the front of the desk, as described, this shaft 20 is turned, so that its pedal 21 is elevated to its highest position through the medium of the two gears 22 and 23, and when it is desired to return the stand to its normal position the pedal 21 is depressed, causing the shaft 13 to turn in the reverse direction to that previously described and to thereby bring the lug 14 by a reverse movement under the shaft 3 to elevate said shaft 3, so as to release the locking device 11 from its keeper 11′. Then as the downward depression of the pedal 21 is continued the lip or bottom wall of the opening 19′ will contact with and lift the pedal 19, thereby causing a backward turning of the interior rod or shaft 16, whereby the segment 17 will be swung rearwardly to rotate the shaft 3 in the opposite direction to that previously described, thereby swinging the stand back to its normal position at the side of the desk and bringing the locking device 10 into engagement with its keeper 10′, thus locking the desk against movement.

By means of the operating mechanism just described it will be seen that the user of the desk may bring the type-writer into position for use at will and may restore it to its normal position, where it is out of the way until its use is again required.

In connection with the means for turning the stand I employ when the device is used as a type-writer support means for tilting back and replacing the cover 6 automatically as the stand is swung into and out of operative position.

Mounted in hinges 24 upon the stand is a rod or shaft 25, which is provided with upwardly-extending fingers or standards 26, which fit within loops or receptacles 27 upon the back of the type-writer cover 6. At one end this rod or shaft 25 is provided with a crank 28, whose end fits and slides within a slot 29 in a cam 30, fixed to the desk 1, said slot 29 being provided at its ends with depressions 31, which compensate for the raising and lowering of the stand 4 to release and engage the catches with the keepers. The slot 29 is so formed that as the stand 4 swings around to the front of the table 1 the crank-handle is turned and oscillates the shaft rearwardly, so as to cause the cover 6 to tilt back on the hinges 24 and rest upon the rear portion of the stand 4, leaving the type-writer exposed for use. When, on the other hand, the stand is swung back to its normal position, the crank is operated to turn the shaft in a reverse direction and to thereby swing the cover 6 down over upon the stand 4 to inclose the type-writer. The cover 6 is of course made large enough to clear the type-writing machine as it swings back and forth with the rod or shaft on the hinges 24.

From the foregoing description, taken in connection with the accompanying drawings, it is thought that the construction, mode of operation, and advantages of my improved desk attachment will be readily apparent without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In a device of the character described, the combination of a shaft adapted to be secured to one of the corners of a desk, a support carried by said shaft and adapted to swing therewith from one side or end of the desk to the front thereof and vice versa, means for swinging the shaft, a type-writer cover mounted upon said support, and mechanism operative through the swinging of the support for tilting said cover as the support is moved in one direction or the other to inclose or expose a type-writing machine resting on said support, substantially as specified.

2. In a device of the character described, the combination of a shaft adapted to be secured to one of the corners of a desk, a support carried by said shaft and adapted to swing therewith from one side or end of the desk to the front thereof and vice versa, means for swinging the shaft, a type-writer cover mounted upon said support, an oscillating shaft carrying said cover, and means for oscillating said shaft to tilt the cover to inclose or expose a type-writing machine resting upon the support, as said support swings in one direction or the other, substantially as and for the purpose described.

3. In a device of the character described, the combination of a shaft adapted to be secured to one of the corners of a desk, a support carried by said shaft and adapted to swing therewith from one side or end of the desk to the front thereof and vice versa, means for swinging the shaft, a type-writer mounted upon said support, a cover for the type-writer, an oscillating shaft carrying the cover and adapted to tilt said cover, and a cam for oscillating said shaft as the support swings, substantially as described.

4. The combination of a desk provided at its front and an end with keepers, a support hinged or pivoted at a corner of the desk to swing between said front and end and provided with catches to engage said keepers, means for adjusting the support vertically to throw either catch into or out of engagement with its keeper, operating means at the front of the desk, and gearing coacting with said adjusting means and adapted to swing said support upon the actuation of said operating means, substantially as set forth.

5. The combination with a desk, of a vertical shaft arranged at one of the corners of the desk, a support carried by said shaft and adapted to swing therewith from one side or end of the desk to the front thereof and vice versa, a rock-shaft mounted at the front of the desk and in gear with said vertical shaft, and a lever for operating said rock-shaft, substantially as described.

6. The combination with a desk, of a vertical shaft arranged at one of the corners of the desk, a support carried by said shaft and adapted to swing therewith from one side or end of the desk to the front thereof and vice versa, a rock-shaft mounted at the front of the desk and in gear with said vertical shaft, a lever for turning said rock-shaft in one direction for swinging the support from the side to the front of the desk, a second rock-shaft in gear with the first-named rock-shaft and adapted for moving the same in the reverse direction to swing the support back to the side of the desk, and a lever for operating the second rock-shaft, the construction being such that when one lever is up the other is down, and vice versa, substantially as described.

7. In a device of the character described, the combination of an oscillating shaft, a support carried thereby, a hollow operating-shaft provided at one end with a cam or projection for elevating the oscillating shaft, an internal shaft within said hollow shaft, gearing between said internal shaft and the oscillating shaft, means for first operating the hollow shaft to elevate the oscillatory shaft and then to operate the internal shaft to turn said oscillatory shaft, and means for restoring the parts to their normal position, substantially as described.

8. The combination with a desk provided at its front and side with keepers; of an oscillating shaft mounted at a corner of the desk and having a vertical endwise movement, a support connected to the shaft and provided with catches to engage said keepers, means for moving the shaft vertically to engage either latch with its keeper or release it therefrom, and means for oscillating the shaft, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM JACKSON BELL.

Witnesses:
JNO. T. BONNER,
D. G. KILBURN.