C. A. & C. S. LEOPOLD.

PEDESTAL TYPE WRITER STAND.

APPLICATION FILED NOV. 5, 1913.

1,106,311.

Patented Aug. 4, 1914.

2 SHEETS—SHEET 1.

FIG. 1.

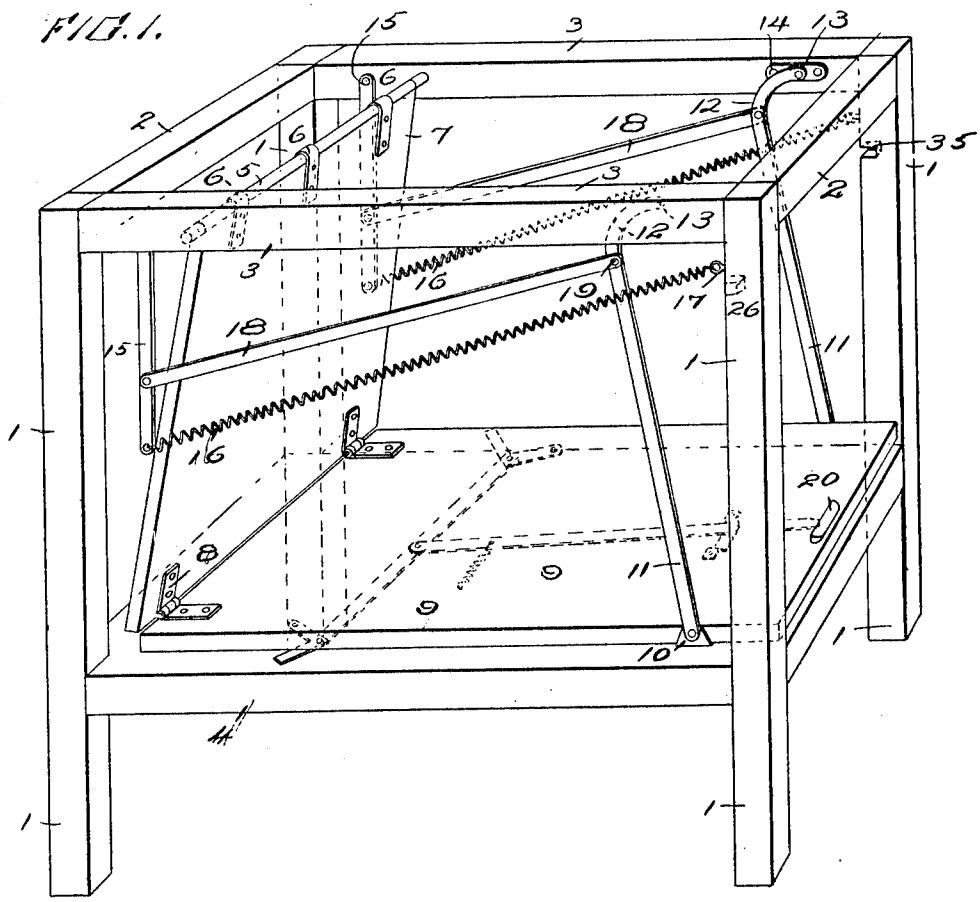
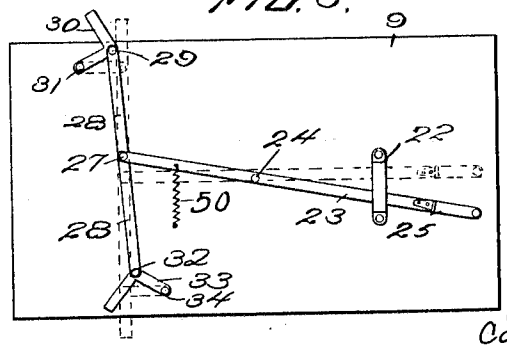


FIG. 3.



Witnesses

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2 SHEETS—SHEET 2.

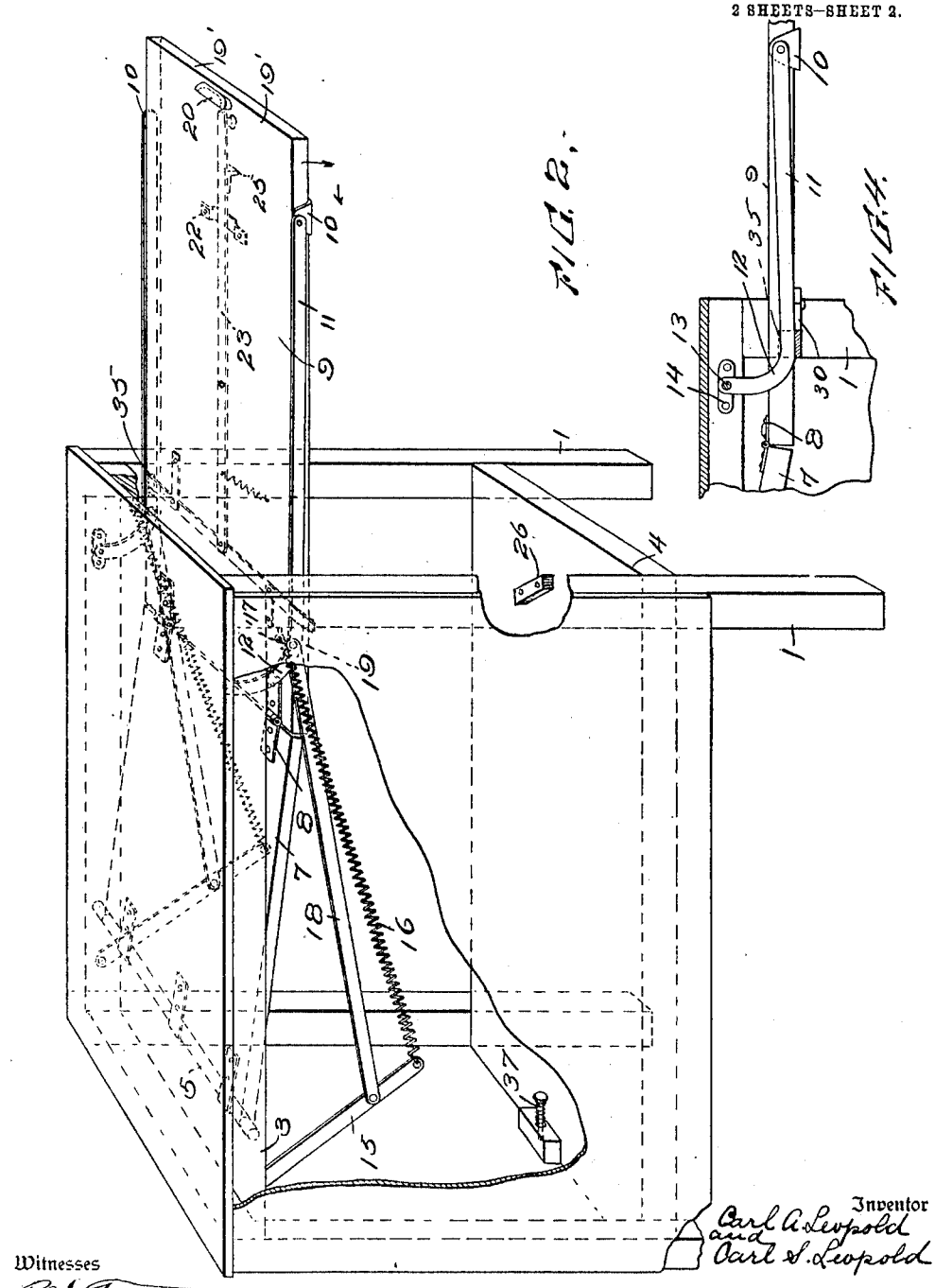


FIG. 2.

FIG. 4.

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UNITED STATES PATENT OFFICE.

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PEDESTAL TYPE-WRITER STAND.

1,106,311. Specification of Letters Patent. Patented Aug. 4, 1914.

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To all whom it may concern:

Be it known that we, CARL A. LEOPOLD and CARL S. LEOPOLD, citizens of the United States, residing at Burlington, in the county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Pedestal Type-Writer Stands; and we do hereby 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 typewriter tables or stands, and an object of the invention is to provide a typewriter stand with pedestal mechanism for assisting in extending the typewriter to operating position, and also a system for holding the typewriter pedestal in extended position.

A further object of the invention is to provide a typewriter stand or pedestal wherein the typewriter is always in substantially a horizontal position. A portion of the operating mechanism serves to form a dust shield for the typewriter when inclosed in the desk.

A further object of the invention is to provide a typewriter table with a platform having a locking device for holding the platform in extended position, said locking means coöperating with a means for assisting in extending the typewriter platform for holding the latter into extended position.

With these and other objects in view, the invention consists in certain novel combinations, constructions and arrangements of the parts as will be hereinafter fully described and claimed.

In the drawings, Figure 1 is a perspective view of a typewriter desk showing the mechanism forming the subject-matter of the present invention applied thereto, the mechanism being in housed or inoperative position; Fig. 2 is a perspective view of a complete typewriter table with the typewriter platform in extended position, parts of the table being removed to show the operating mechanism; and Fig. 3 is a bottom plan view of the typewriter platform showing the locking device connected thereto; Fig. 4 shows a modified form of locking device.

The general aim of this invention is to provide a typewriter platform pivotally connected to the interior of a typewriter table or desk, and in further providing resilient means operably connected to the platform for assisting in extending the platform when it is desired to remove the typewriter from the desk, there being provided upon the bottom of the platform a locking device serving to hold the platform ragidly with respect to the desk. Pivoted arms connected to the platform rest upon the locking device and are associated with resilient means which assist in removing the platform.

In order that a more complete understanding of the invention may be had, reference is made to the accompanying drawings.

Referring to Fig. 1, it will be seen that the typewriter desk comprises legs 1 having end bars 2, and side bars 3 secured to the upper ends of the legs 1, while there is provided adjacent the bottom of the desk a shelf. This structure is shown simply as a means for supporting the mechanism and it is to be understood that other stands or desks may be used in connection with the invention. Extending between and having its ends rotatably mounted within the rear ends of the side bars 3, is a pivot rod 5 having supporting brackets 6 hingedly engaging the same which by means of rivets or other suitable means, carry a leaf 7 made of any suitable material, preferably of wood. The leaf 7 is made substantially the same width as the table or desk, and extends from the top approximately to the shelf 4 and has pivotally connected to the lower end thereof by means of butt hinges 8, the typewriter platform 9, which is also preferably made of wood and of substantially the same width and of somewhat less length than the desks. In order that the forward end of the typewriter platform may be pivotally connected with the frame, there is provided on each forward side thereof a cleat 10 to which is pivotally connected a supporting arm 11, the upper end of which is curved as at 12, and pivoted as at 13, to a plate 14 secured to the forward ends of the side bars 3. By means of the pivot rod 5 and the supporting arms 11, it will be seen that the platform 9 will be free to move in and out of the desk.

In order that the operation of raising and lowering the platform which carries the typewriter may be eased, there is pivoted to the side bars 3 preferably in rear of the pivot rod 5, arms 15 the extreme lower end of each of which is connected to a spring 16, the forward end of which is received by an

eye or other means 17 secured to the forward legs of the desk. Links 18 each have their rear end pivoted to the arm 15 at a point above the pivotal connection of the spring 16, and each of the bars 18 has its forward end pivotally connected as at 19, to the supporting arm 11 substantially as shown in Fig. 1. A handle 20 or any suitable grasping device is provided on the forward end 19' for the purpose of raising the same when it is desired to extend the platform to operative position.

By referring to Fig. 3, there will be seen the means employed for locking the platform as described hereinafter when the operation of the desk is given. Secured to the bottom of the platform 9 is a guide bracket 22, serving to guide a lever 23 pivoted as at 24, the outer end of the lever being provided with any suitable handle and having secured thereto a catch 25 which is so positioned upon the lever 23 as to engage a block or stop 26 carried upon the forward end of the shelf 4 as described hereinafter. The inner end of the lever 23 has pivotally connected as at 27, a link 28 one end of which is pivotally connected as at 29, to an angle iron or lock 30 pivoted as at 31 to the bottom of the platform 9, the pivotal point being behind the link 28, while the other end is pivoted as at 32 to an angle iron or lock 33 pivoted as at 34 to the bottom of the platform in front of the link 28. The position shown in full lines in Fig. 3, is that of the non-locking position, while the dotted line position shows the locking position described hereinafter.

In the closed position of the desk shown in Fig. 1, the lever 23 secured to the platform on the under side thereof, will be thrown as shown in dotted lines in Fig. 3, so that the catch 25 engages the lock or stop 26 thereby preventing any accidental outward movement of the platform under the action of the spring 16. When it is desired to extend the desk or platform, the handle of the lever 23 will be thrown to the position shown in full lines in Fig. 3, this throwing of the lever removing the catch 25 from the stop 26, so that it will be possible by grasping the handle 20, to raise the platform 9 to the extended position shown in Fig. 2. The spring 16 having one end secured to the desk and being connected through the links 18, the supporting arms 11 serve to assist in the raising of the platform by the attendant. When the platform 9 is seated in the position shown in Fig. 2, the lever 23 will be thrown to the position shown in dotted lines when it will readily be understood that the extending ends of the angle irons or locks 30 and 33 will be received by the pockets 35 and 36 respectively formed upon the inner edges of the forward legs 1 of the desk. By referring to Fig. 2, it will be seen that the leaf 7 slopes downwardly somewhat, while the platform 9 is substantially horizontal and the butt hinges 8 connecting these two members serve to check the dipping of the forward end of the platform 9, when the typewriter is being used. When it is desired to house the typewriter it will be necessary merely to throw the lever 23 out of operative position so that the typewriter device will be released, whereupon the platform 9 will descend to the original position as shown in Fig. 1, the rear end of the platform engaging a buffer or shock absorber 37, after which the lever 23 may be thrown so that the catch 25 engages the block or stop 26.

As shown in Fig. 4, the depending supports 11 may be so proportioned as to rest upon the angle irons 30 and 33 respectively, so that the greater the pressure on the forward end of the platform 9, the greater will be the pressure between these supports 11 and the locking devices, this construction serving to prevent slipping of the angle irons forming the locks.

If it be desired to make the action of the locking device automatic, it will be possible to secure to the platform 9, on the under side thereof, a spring 50 which acts upon the lever 23 in such a way as to hold the angle iron locks 30 and 33 normally in locked position or in the dotted position shown in Fig. 3. By reason of this construction it will be understood that in raising the typewriter stand or platform, the lock 25 may be moved from the block 26 to throw the lock mechanism into the position shown in Fig. 3, after which the handle may be liberated and the locks returned to the dotted position where they may be inserted in the slots 35. By reference to Fig. 2, it will be seen that the block 26 is disposed at an angle to the front edge of the bottom 4 so that as the platform 9 is lowered to its housed position the catch 25 will slide along the angular face of the block 26, thus expanding the spring 50 and as soon as the catch 25 passes the end of the block 26, the spring will draw the lever into locked position to prevent upward swinging of the platform under the tension of spring, restraining the catch against sliding along the inclined face, said resilient means adapted to hold the lever normally to hold the locks in locked position.

What we claim is:

1. A typewriter desk comprising a frame, a leaf pivotally connected thereto, a platform hingedly connected to the leaf, a lever pivoted to the bottom of the platform, L-shaped lock members pivotally mounted to the platform in one of the ends thereof, a link pivotally connected to one end of the lever and having the ends thereof pivotally connected to the corners of the L-shaped locks, the frame being provided with notches

to receive the free ends of the L-shaped locks as the lever is moved to cause said free ends to enter the notches when the platform is raised for the purpose of holding the platform in raised position.

2. A typewriter desk comprising a frame, a leaf pivotally connected thereto, a platform hingedly connected to the leaf, a lever pivotally mounted on the bottom of the platform, a link pivotally connected to one end of the lever and having ends extending adjacent the sides of the platform, an L-shaped lock member pivoted to the platform adjacent each side thereof, the pivotal connection of one of said lock members being on one side of the link while the pivotal connection of the other lock member is upon the opposite side of the link, means for connecting the ends of the link pivotally to the L-shaped members, notches formed in the frame, said lever adapted when moved to one side to project the free ends of said L-shaped lock members beyond the sides of the platform to engage their respective notches and thereby support the platform.

In testimony whereof we affix our signatures in presence of two witnesses.

CARL A. LEOPOLD.
CARL S. LEOPOLD.

Witnesses:
FRED G. HOLSTEEN,
GEORGE E. HILL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."