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TYPEWRITER DESK

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3 Claims. (Cl. 312—29)

This invention relates to a typewriter desk and particularly to a desk of the pedestal type in which a typewriter shelf adapted to carry a typewriter is mounted so that it may be concealed within a standard width pedestal from which it may be withdrawn for use. More particularly it relates to a desk of the type in which there is mounted within the pedestal a drop leaf upon which the typewriter is mounted, and which drop leaf assembly may be slid in and out of the pedestal and is so arranged that the drop leaf may not be raised until the drop leaf is fully withdrawn from the pedestal and whereby the drop leaf assembly may not be slid into the pedestal until it is in its fully lowered position.

More particularly the invention is an improvement upon the structure disclosed in my copending application Serial No. 330,957 filed April 22, 1940 and which issued July 14, 1942, as Patent No. 2,289,664. Since the structure of the desk and of the drop leaf assembly is quite fully described in said application, it will not be described in detail herein except insofar as the present structure differs from the structure of said application.

The objects of my invention, which will fully appear from the specification, I accomplish by that certain construction and arrangement of parts of which I shall now describe an exemplary embodiment. Reference is made to the drawing forming a part hereof and in which:

Figure 1 is a fragmentary front elevational view of a desk pedestal showing the drop leaf withdrawn and in raised position.

Figure 2 is a view similar to Figure 1 but showing the drop leaf in its lowered position.

Figure 3 is a detail cross sectional view taken on the line 3—3 of Figure 2 and on an enlarged scale.

Figure 4 is a detail cross sectional view taken on the line 4—4 of Figure 2 on an enlarged scale.

Briefly in the practice of this invention, I provide means which prevent the pushing in of the drop leaf assembly until the drop leaf is in its lowermost position. This means is of such character that it cannot be actuated until the drop leaf is all the way down, and by a novel arrangement of parts I provide a very positive lock which is removed at the very end of the downward movement of the drop leaf.

Referring more particularly to the drawing, the drop leaf is indicated at 10 and is hinged as at 11 upon a traveling rail 12 which moves upon rollers 13 guided in channels 14, all as described in my above mentioned copending application.

Means are indicated at 15 for locking the shelf in its raised position and this means may be the same as that shown in my Patent No. 2,289,664, issued July 14, 1942, although I do not desire to limit myself to any type of means for locking the shelf in raised position since numerous other locking means known to the art will work satisfactorily. Fixed to the carriage 12 is a stop member 16, and fixed to the frame of the pedestal is a lug 17. The members 16 and 17 are relatively so positioned, as more clearly appears from Figure 3, that they coact to limit the outward movement of the drop leaf assembly. The lower edge of the drop leaf (considering the same in its lowered position) is provided with a channel element 18 in which there is a cut-out portion 19. A bracket 20 is fastened to the pedestal frame and carries a roller 21 rotatable on a vertical axis. The opening 19 and the roller 21 are relatively so positioned that they are opposite each other when the drop leaf assembly is in its fully withdrawn position. In this position the drop leaf may be raised since the aperture 19 forms a clearance for the roller 21. As soon as the drop leaf assembly is slightly pushed inward, the roller 21, of course, engages behind the arm 18a of the channel 18 and prevents raising of the drop leaf. This structure is described and claimed in my copending application above referred to.

In order to prevent the drop leaf assembly from being pushed inwardly until the drop leaf is in its lowermost position, I provide a locking lever indicated at 22 which is pivoted on the pedestal frame as at 23 and which carries at its upper end the locking element 24. When the member 22 and with it the member 24 are moved in a counterclockwise direction by means of the small spring 25 fastened at one end to the lever 22 and at the other end to the pedestal frame, as clearly shown in Figure 3, the member 24 will project behind the member 16 to prevent the assembly from being pushed inwardly.

Near its lower end the lever 22 carries a bracket 26 which carries a roller 27 rotatable on a vertical axis. The roller 27 is so positioned in a vertical direction that it is adapted to be abutted by the upper arm 18b of the channel 18 when the drop leaf is in its lowered position, as clearly shown in Figure 2. The roller 27 is so positioned horizontally that the arm 18b will not abut it until the drop leaf is substantially in a vertical plane, and by virtue of the long lever arm 22 a relatively slight motion toward the right of the roller 27 will produce a relatively

great movement toward the right of the locking element 24 and will cause the same to move far enough to the right to clear the abutment 16 and permit the drop leaf assembly to be pushed in. It will be clear that as soon as the slightest upward movement is imparted to the drop leaf, the arm 18b will clear the roller 27 whereupon the spring 25 will urge the lever 22 toward the left so that the locking element 24 will engage behind the abutment 16 and effectively prevent the assembly from being pushed inward.

From the foregoing description it will be seen that I have provided a very simple structure and yet one which is highly effective. Upon proper positioning of their various parts as discussed herein, the locking arrangement is quite positive and thus a typewriter mounted upon the drop leaf will not become injured by virtue of movement in any direction of the drop leaf since it can only be raised or lowered when it is fully withdrawn and it can only be withdrawn or pushed in when it is fully lowered.

Having now fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In combination with a desk pedestal and a typewriter shelf slidably and hingedly mounted on a wall in said pedestal, means to prevent inward movement of said shelf except when said shelf is in a substantially vertical position, said means comprising an abutment in connection with said shelf, and a locking lever pivoted on said pedestal and carrying means for cooperating with said abutment to prevent inward movement,

and means acting upon said locking lever to shift the cooperating means to an inoperative position when said shelf substantially attains vertical position.

2. In combination with a desk pedestal and a typewriter shelf slidably and hingedly mounted on a wall of said pedestal, and slidable to a position outside of the pedestal, means for preventing said shelf from being pushed in except when in a substantially vertical position, comprising a lever pivoted on said pedestal engageable intermediate of its length by said shelf when said shelf substantially attains vertical position, said lever when unengaged by said shelf cooperating with an abutment which prevents inward movement of said shelf.

3. In combination with a desk pedestal and a typewriter shelf slidably and hingedly mounted on a wall of said pedestal, and slidable to a position outside of the pedestal, means for preventing said shelf from being pushed in except when in a substantially vertical position, comprising a lever pivoted to said pedestal, said lever carrying a bracket intermediate its length, a roller mounted on said bracket for rotation about a substantially vertical axis, said roller being positioned to be abutted by said shelf substantially upon attainment of a vertical position of said shelf, means at the end of said lever cooperating with an abutment to prevent the inward movement of said shelf, and resilient means urging said lever to shelf movement-preventing position.

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