SUPPORT FOR TYPEWRITERS OR OTHER OFFICE APPLIANCES

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The invention has for its object to provide a support for typewriters, calculating machines, telephones and other office appliances, so constructed as to permit the appliance to be instantly raised out of the way, when not in use, leaving free for other work the space formerly occupied by the appliance.

The invention more specifically refers to a support for typewriters, destined to substitute the desks having disappearing typewriters secured to tilting top plates. These desks are inconvenient to use, inasmuch as the papers, books, pens and such, placed on top of the desk after the typewriter has been concealed within, must be cleared away before the top is tilted for raising the machine, while the support of my invention may be lowered on top of anything not too thick placed on the table, which will then continue ready for use as soon as the support is raised again.

The invention has for its further object to provide the support with such means as will permit an easy lowering and lifting of the appliance placed on it, preferably by means of springs acting as brakes or counterweights.

I obtain these objects by means of the embodiment of my invention illustrated in the accompanying drawings, in which:

Fig. 1 is a side elevation of the support, in a raised position.

Fig. 2 is a side elevation of the same support, lowered.

Fig. 3 is a plan view of the lowered support shown in Figure 2.

Fig. 4 shows in section one of the lateral guide plates with the brake lever and the rear supporting arm, on the plane indicated by the line 4-4 of Fig. 3.

As appears from these drawings, the support comprises a base board 1, which is secured to the table or desk top by means of screws, or of clamps 2 placed along the edge of the desk 3 opposite to the person using it.

The typewriter or any other appliance is placed on a rectangular board 4, being secured thereto by hooks or screws. This board 4 is connected with board 1 by means of two pairs of metal arms 5 and 5', one pair on each side of said boards, said arms being fastened at such points that the inclined adjacent edges of both boards will join when the upper board 4 is lowered, which is done by pulling it forward by means of the grip 6. In the raised position of board 4 shown in Figure 1, the rear arms 5 rest against two stops 7, secured to the inner sides of the lateral guide plates 8.

These guide plates 8 are preferably cut to a semi-circular shape and bent below at right angles and screwed with the bent-in portion to the under side of board 1, as shown in Figure 4. The upper edge of said plates is bent inwardly and both plates are placed at such a distance one from the other that any lateral play of the rear arms 5 is prevented, while the fore arms 5, the board 4 being raised, rest against the front edges of said guide plates.

For balancing to a certain degree the weight of the typewriter or any other appliance placed on board 4, a novel brake mechanism has been provided, which substantially consists of two rectangular iron bars 9, longitudinally slideable in the space comprised between the vertical portion of each guide plate 8 and the edge of the base board 1, the lower extremities of both arms 5 and 5' being pivoted to said bars, arms 5 on the outside and arms 5' on the inside of them. Each arm 5 is further connected to the guide plate 8 of the same side by a lever 10 pivoted with one end to said plate and having at its other extremity a longitudinal slot 11, in which moves a pin 12 secured to arm 5. Each bar 9 is provided at its rear extremity with a rod 13 surrounded by a spiral spring 14 bearing against bar 9 and an angular stop 15 fastened to the back edge of board 1, through which stop passes the rod 13.

On lowering the board 4, the arms 5 are detained in a determined position by the levers 10, when the pins 12 have reached the extremities of the slots 11. As the appliance placed on board 4 continues to descend owing to its weight, the lower ends of arms 5, fastened to the bars 9, push these
bars backward, against the pressure of the springs 14, the resistance increasing as said springs are more and more compressed. The appliance placed on board 4 is thereby brought down very gradually, provided the strength of the springs is proportional to the weight of said appliance, and it is further much easier to raise the board together with the appliance, as the springs 14 tending to return to their normal form push the bars 9 forward, raising thereby the arms 5 detained by the levers 10.

The points at which the upper extremities of arms 5 and 5' are pivoted to the board 4, are preferably placed higher than the upper level of said board, on tongues 16 extending upwardly from flat irons 17 screwed to the edges of said board. The same board is further preferably provided with rubber feet 18, both for forming a resilient base and for elevating somewhat said board. Owing to the pivots being thus elevated, the arms 5 and 5' are prevented from coming into a dead position, parallel to the boards 1 and 1', which would hinder the starting of the upward movement of board 4, as the springs 14 would push along the same line as said arms are located in, and not tangentially thereto.

It is obvious that by using springs 14 of different strength, appliances of any weight may be placed on board 4, and therefore the rods 13 are preferably made detachable from the bars 9 so as to facilitate the insertion of different springs.

The space on board 1 between the arms 5 and 5' may be occupied by different office articles and implements, which will easily be cleared by the almost vertically ascending board 4.

I am aware that various details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

What I claim is:

1. A support for typewriters and other office appliances, comprising a stationary board, a second board supporting the appliance, laterally connected with said first board by means of pivoted arms whereby the second board may be guided to and supported in inoperative position above and in the rear of its operative position, vertical guide plates impeding lateral play of said arms, stops on said guide plates for detaining said arms in a backwardly inclined position, and means acting as brakes, connected with said arms, for substantially balancing the weight of said appliance on being raised from or lowered to the operative position.

2. A support for typewriters and other office appliances, comprising a stationary base board, a second board supporting the appliance, laterally connected with said base board by pivoted arms whereby the second board may be guided to and supported in inoperative position above and in the rear of its operative position, vertical guide plates impeding lateral play of said arms, stops on said guide plates for detaining said arms in a backwardly inclined position, and means acting as brakes, connected with said arms, for substantially balancing the weight of said appliance on being raised from or lowered to the operative position.

3. A support for typewriters and other office appliances, comprising a board secured to the desk top, a second board supporting the appliance having arms laterally pivoted thereto, the lower extremity of said arms being pivoted to sliding members located along the sides of said base board whereby the second board may be guided to and supported in inoperative position above and in the rear of its operative position, springs disposed between the rear extremities of said sliding members and fixed stops, means connected with said arms for pushing said sliding members against said springs on said arms reaching a determined position, and vertical guide plates for impeding side play of said arms.

4. A support for typewriters and other office appliances, comprising a board secured to the desk top, bars slidably disposed along two opposite edges of said board, two arms pivoted in spaced relation at opposite sides of each of said bars, springs located between the rear ends of said bars and fixed stops, vertical guide plates secured laterally to the said stationary board for impeding side play of the rear arms, slotted levers connecting said guide plates with the front arms, and a board supporting the office appliance to which said arms are pivoted at points elevated above the upper level of said board.

In testimony whereof I affix my signature.

ERNESTO KRADOLFER.