Sept. 26, 1944. W. J. RYTHER 2,359,002

TYPEWRITER SUPPORT

Filed Dec. 2, 1942 2 Sheets-Sheet 1

Fig. 1.

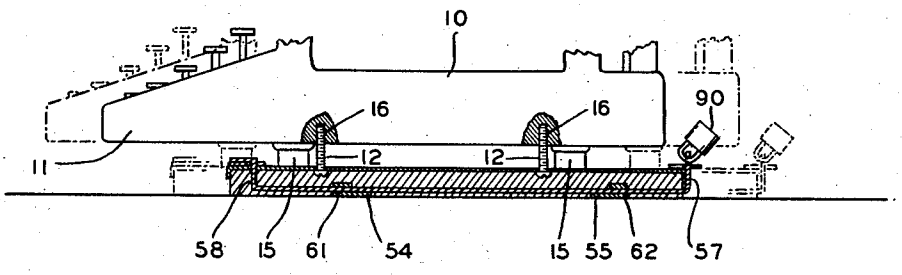


Fig. 2.

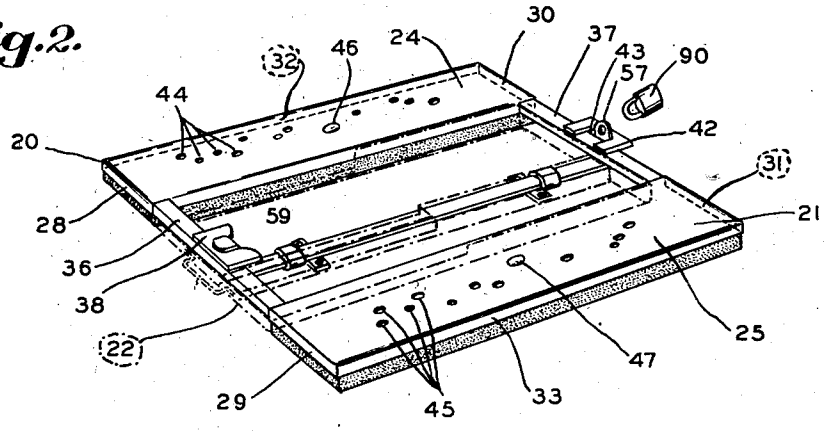


Fig. 3.

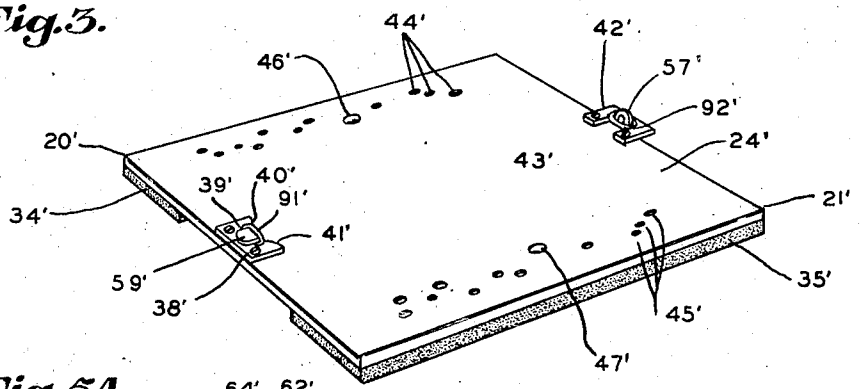
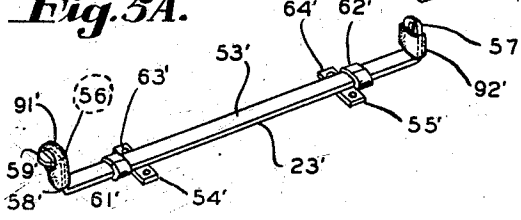


Fig. 5A.



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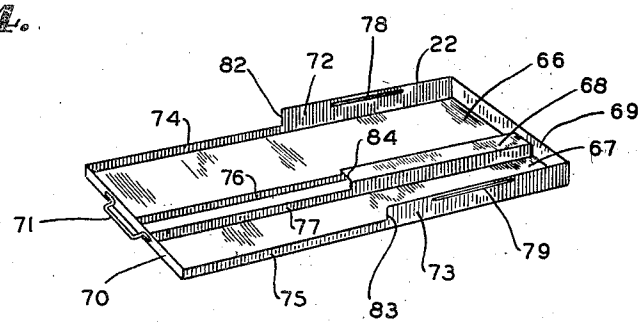
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TYPEWRITER SUPPORT

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Fig. 4.



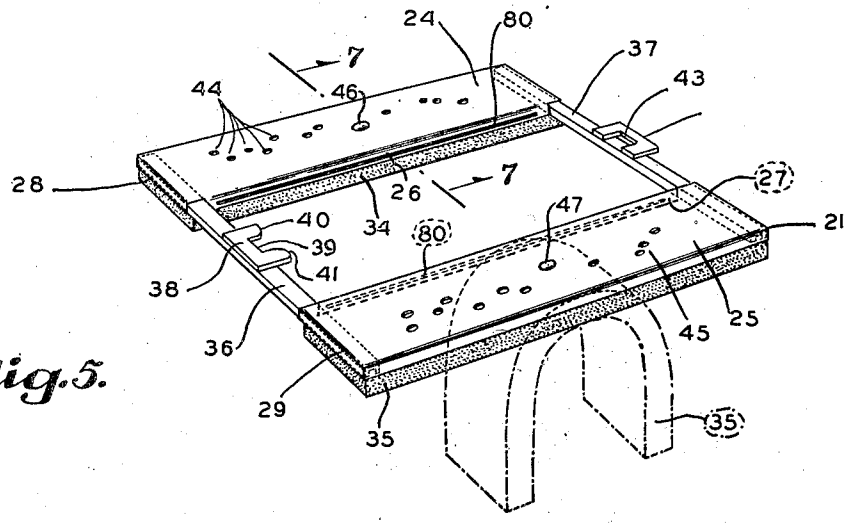
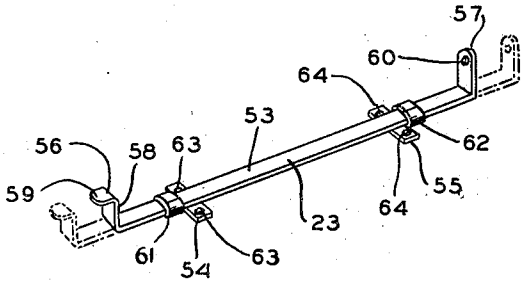


Fig. 5.

Fig. 6.



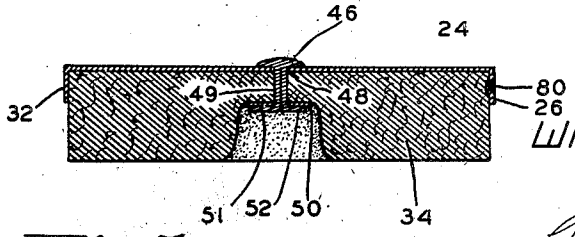


Fig. 7.

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2,359,002

TYPEWRITER SUPPORT

William J. Ryther, Elizabeth, N. J., assignor to Nicholas H. Fucci, Englewood, N. J.

Application December 2, 1942, Serial No. 467,587

7 Claims. (Cl. 248—22)

This invention relates generally to typewriters and more particularly to novel typewriter support structure.

Among the objects of the present invention lies the provision of a typewriter support which properly cushions the typewriter so that when in use, less noise is produced and less jarring, wear and tear will result.

Another object herein lies in the provision of typewriter support structure which is very easily installed upon all brands of typewriters on the market.

A still further object herein lies in the provision of typewriter support structure which detachably attaches the typewriter to a desk or other support in a simple and convenient manner. A feature of this detachable construction lies in the fact that the typewriter and its support are maintained in proper operative position even when the surface upon which the support is secured is tilted, as is the case on automatic secretary desks.

Another object herein lies in the provision of detachably attachable typewriter support structure by means of which the typewriter may be securely locked in place in a simple manner.

A still further object herein lies in the provision of typewriter support structure of the character described which permits adjustment in position of the machine during use to suit the comfort and convenience of the typist.

Another object of the invention lies in the provision of a noise reducing typewriter support having drawer means therein.

Another object of the invention resides in the provision of an attaching member for application to the surface on which the typewriter is to be used, together with fasteners for securing it to the surface; said fasteners being adapted to be disposed within the confines of the support to completely conceal the same when the support is in operative position.

These objects and other incidental ends and advantages will more fully appear in the progress of this disclosure and be pointed out in the appending claims.

In the drawings, similar reference characters designate corresponding parts together with the several views of each embodiment, and in which:

Figure 1 is a fragmentary side elevational view, partly in section, of a first embodiment of the invention, schematic in nature.

Figure 2 is a view in perspective of the support and attaching element in operative position. In this figure the drawer element is indicated in dot-dash lines.

Figure 3 is a view taken similarly to Figure 2 but showing a second embodiment of the invention.

Figure 4 is a view in perspective of the drawer element.

Figure 5 is a view in perspective of the support element.

Figure 5A is a view in perspective of the retainer element of the second embodiment.

Figure 6 is a view in perspective of the attaching element.

Figure 7 is an enlarged vertical sectional view as might be seen from the plane 7—7 on Figure 5.

For the purpose of illustrating the use of my invention I have shown in Figure 1 an ordinary typewriter, numeral 10, which is representative of any commercial type of office typewriter. This typewriter comprises a frame structure 11. Since the typewriter 10 forms no part of the invention a detailed description thereof is omitted from this disclosure. The frame 11 includes four feet 15 which are usually constructed of rubber or some similar resilient material and which are secured to the frame 15 in any suitable manner. In accordance with certain commercial practice, in proximity to the feet 15, the frame 11 is tapped as indicated at 16 to receive bolts or machine screws 12 for attaching the typewriter to the table or other surface structure on which the same is to be maintained in use. The exact positioning of the tapped holes 16 will vary with different brands of typewriters and it will be readily comprehended from the following description that the invention may be used with any type or form of typewriter similar to that illustrated.

Turning now to the first embodiment of the invention illustrated in Figures 1, 2, and 4 to 7 inclusive, the typewriter support generally indicated by numeral 20 comprises broadly a support element 21, a drawer element 22 and a retainer element 23. These three elements are detachably engageable with each other as will more fully appear herein below.

The support element comprises two spaced and parallel support plates 24 and 25. These plates are preferably identical in constuction so that they may be pressed from a single die. The plates 24 and 25 have downwardly extending inner flanges 26 and 27, front flanges 28 and 29, rear flanges 30 and 31 and outer longitudinal flanges 32 and 33 respectively. The flanges 26 to 33 inclusive serve not only to strengthen and stiffen

the plates 24 and 25 but also to act as retaining lips for the pads 34 and 35. The inner flanges 26 and 27 stop short of the front and rear flanges so as to position the front and rear transverse support members 36 and 37. The support members 36 and 37 are preferably U shaped in cross section for the purpose of rigidity and light weight. The plates 24 and 25 may be integrated with the support members 36 and 37 in any suitable manner as, for example, by riveting, soldering, or by spot welding.

The front transverse support member 36 is provided with a front retainer member 38. The retainer member 38 is preferably in the form of a flat plate which is secured to the central upper surface of the support member 36 preferably by spot welding. The member 38 in the rear edge thereof is provided with an indentation 39 having converging side walls 40 and 41.

The rear transverse support member 37 is preferably provided with a rear hasp member 42. The member 42 may take the form of a flat plate of U shape, the extremities of which are secured to the upper surface of the rear transverse support member 37, centrally thereof, preferably by spot welding. The indentation in the forward edge of the member 42 is sufficiently deep so that when the forwardly directed extensions of said plate are in operative position upon the support member 37 a hasp member orifice 43 remains.

The plates 24 and 25 are each provided with a plurality of orifices 44 and 45 which are arranged in peculiar arrangement so that certain ones of them are adapted to register with the respective tapped holes 16 of the various kinds of typewriters with which the invention is to be used. By screwing machine screws or bolts such as those indicated by numeral 12 in Figure 1 through the proper orifices 44 and 45 and into the tapped holes 16 of the frame or base 11 of the typewriter 10 proper, the support 20 may be rigidly secured to the typewriter in a very simple manner.

It is to be noted in connection with the present invention tha the insertion or withdrawal of the bolts 12 is facilitated by the fact that the pads 34 and 35 are flexible and they are attachable to the plates 24 and 25 respectively at single points only, namely those indicated by numeral 46, and 47. This construction is best seen in Figure 7 in which the split rivet 46 penetrates an orifice 48 in the pad 34. Following this the shank of the rivet penetrates a washer 50 and after the pad thereat has been sufficiently compressed the legs 51 and 52 of the rivet 46 are spread. The pads 34 and 35 are preferably composed of any suitable resilient material such as sponge rubber, sponge artificial rubber or loosely felted hair. I have found loosely felted hair to be the most suitable substance because of its good sound and shock absorbing qualities as well as the fact that it has a relatively long life. As seen in Figure 5 of the accompanying drawings, since the pads 34 and 35 are each connected to their respective plates 24 and 25 at only one point, the ends thereof may be readily bent downwardly to afford free access to the orifices 44 and 45. Although the pads 34 and 35 are not secured to the plates 24 and 25 in any other way, when the pads are in operative position as shown by the full lines on Figure 5, the downwardly extending flanges depending from the plates 24 and 25 securely position said pads.

As best seen in Figure 6 the retainer element 23 includes an attaching member 53 and fastening members 54 and 55. The attaching member 53 is preferably formed from a piece of flat strip stock and includes a forward hook portion 56 and a rear lock portion 57. The hook portion is preferably formed by a series of right angled bends forming a vertical portion 58 and a tab 59. The lock portion is preferably formed by a single right angled bend and is provided with a locking orifice 60. The length of the attaching member 53, and more particularly the distance between the lock portion 57 and the vertical portion 58 is determined by the distance between the orifice 43 and the indentation 39. The fastening members 54 and 55 are preferably fabricated by deforming one portion of a flat plate to produce attaching member encircling portions 61 and 62. The fastening members 54 and 55 are provided with attaching orifices 63 and 64. The attaching orifices may be penetrated by screws not shown, to secure the fastener members to the surface upon which the support 20 and the typewriter 10 are to be used. The encircling portions 61 and 62 have a sliding fit on the central longitudinal portion of the attaching member 53.

The drawer element 22, best seen in Figure 4 is of irregular configuration and comprises bottom walls 66 and 67, a tunnel 68, a rear wall 69, a front wall 70 having a handle 71 and side walls 72 and 73. The side walls 72 and 73 have the forward portions 74 and 75 reduced in height so that the upper edges thereof are substantially at the same level with the upper edge of the front wall 70. The tunnel 68 has the forward portion thereof removed so as to leave two upwardly extending flanges 76 and 77. The side walls 72 and 73 are provided with outwardly extending longitudinal beads 78 and 79. These beads are adapted to slide longitudinally within the indented guides 80 on the inner surface of the inner flanges 26 and 27. The drawer element 22 is placed in operative connection with the support element 21 by placing the drawer element 22 upwardly between the inner flanges 26 and 27 until the beads 78 and 79 snap into the grooves 80. In the closed position thereof the outer surface of the rear wall abuts the forward surface of the rear transverse support member 37, while the outer surface of the front wall 70 is coplanar with the front surface of the front transverse support member 36. When the drawer element is moved to the outermost open position thereof, the edges 82, 83 and 84 abut the rear vertical surface of the front transverse support member 36 and act as a stop.

The operation of the device 20 is as follows. Assuming the plates 24 and 25 to have been secured to the frame or base 11 of the typewriter 10 as has been previously described, the next step is to secure the fastening members 54 and 55 to the surface (not shown) on which the typewriter is to be used. These fastening members are placed in a position along a line which is colinear with the central longitudinal axis of the typewriter 10. The fastening members 54 and 55 are placed inwardly from the portions 57 and 58 a distance depending upon the amount of forward and backward adjustment in positioning of the typewriter that will be desired.

The fastening members 54 and 55 having been put in place, the engagement of the retainer element 23 with the support element 21 is accomplished by placing the support element first under the tab 59 with the hasp member 42 slightly elevated so that it may be placed rearwardly over the lock portion 57 until said lock portion

lines up with the orifice 43, at which time the member 42 may be lowered. For all normal operations this connection is sufficient to maintain the entire device in proper operative position. Where it is desired, however, to prevent surreptitious removal of the machine by placing an ordinary padlock 90 through the orifice 60, this may be readily accomplished.

Since the plates 24 and 25 are secured by bolts 12 to the frame 11, they are inaccessible at this time, the machine is securely locked against theft.

Because the engagement and disengagement of the typewriter 10 and base 21 from the retainer element 23 is so easily accomplished it permits the shifting of machines from one location to another and also facilitates the accessibility of the machine for repair. Such accessibility of the typewriter is also facilitated by the fact that the drawer element may be easily removed.

The forward and backward adjustable movements of the machine may be readily understood by perusal of Figure 1. The forwardmost position of the typewriter 10 is obtained when the encircling portion 62 abuts the lock portion 57; while the rearmost position of the typewriter 10 is obtained when the encircling portion 61 abuts the vertical portion 58.

Turning now to the second embodiment of the invention illustrated in Figure 3, for the purpose of avoiding needless repetition, parts corresponding to those of the first embodiment are given single prime reference characters.

The principal difference in construction between the first embodiment and the second embodiment lies in the fact that the plates 24 and 25 of the first embodiment have substituted therefore a single large plate 24'. The drawer element is also eliminated in the second embodiment.

The large plate 24' may be composed of any suitable material such as plastic or wood, the latter by reason of its cellular structure acting to further increase the sound and shock absorbing effect.

The pads 34' and 35' elevate the undersurface of the plate 24' sufficiently so that it will clear the encircling portions 61' and 62'.

The tab 59', the vertical portion 58', and the lock portion 57' are covered with a sound absorbing and vibration insulating covering 91' and 92' respectively. Such covers may be composed of either rubber or felt tubing or the parts themselves may be dipped in an air drying and vulcanizing mixture of latex.

In all other respects the use and operation of the second embodiment is substantially the same as that of the first.

It may thus be seen that I have provided a novel and useful typewriter support.

It will be noted that the locking means for retaining the typewriter and its support locked to the table top or other surface is not effected by the sliding of the support element from one position to another. Advantages of my invention are now apparent. The device as a whole is extremely simple in construction and positive in operation. Cushioning of the typewriter is secured throughout substantially the entire area of the cushion whereby the weight of the typewriter is distributed over a large surface. The cushion rests directly upon the table top or other surface thereby eliminating noises and rattles which may occur were the present support not used. The entire typewriter may be shifted in position longitudinally thereof, toward and away from the typist to adjust the same so that it may be in a comfortable position to accommodate different typists. When the lock has been attached to the lock portion of the attaching member, the typewriter is held secured to the table or other support on which the same is mounted, and neither the typewriter support or the attaching member or other structure connected thereto can be removed without opening the lock. The drawer element forms a convenient receptacle for accessories to be used in connection with the operation of the typewriter, such as pencils, erasers, spare ribbons, type cleaner, etc.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

I claim:

1. A support for use with a typewriter and a support carrying surface, comprising: a support element including a plate and a resilient pad associated therewith, said plate having a front retainer member and a rear hasp member; a retainer element including an elongated attaching member having a hooked portion and a lock portion, said hook portion being detachably engageable with said front retainer member, and said lock portion being detachably engageable with said rear hasp member.

2. A support for use with a typewriter and a support carrying surface comprising: a support element including a pair of spaced coplanar plates each having a sound absorbing pad therebeneath, and means interconnecting said plates; said means having a retainer member and a hasp member; a retainer element including an attaching member having a hook portion and a lock portion, said hook portion being detachably engageable with said retainer member, and said lock portion being detachably engageable with said hasp member.

3. A device as claimed in claim 2 wherein the means interconnecting the plates are in the form of support members which are U shaped in cross section.

4. A device as claimed in claim 1 wherein the front retainer member is in the form of a flat plate having a rearwardly opening indentation therein.

5. A device as claimed in claim 1 wherein the retainer member is composed of a flat plate having a rearwardly opening indentation with forwardly converging side-walls therein.

6. A device as claimed in claim 1 wherein the hasp member is in the form of a U shaped flat plate, the free ends of which are connected to the support element.

7. A device as claimed in claim 2 wherein the lock portion of the attaching member has an orifice therein.

WILLIAM J. RYTHER.