Feb. 13, 1951 R. E. HERRICK 2,541,418

ADJUSTABLE TYPEWRITER BASE

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FIG. 1

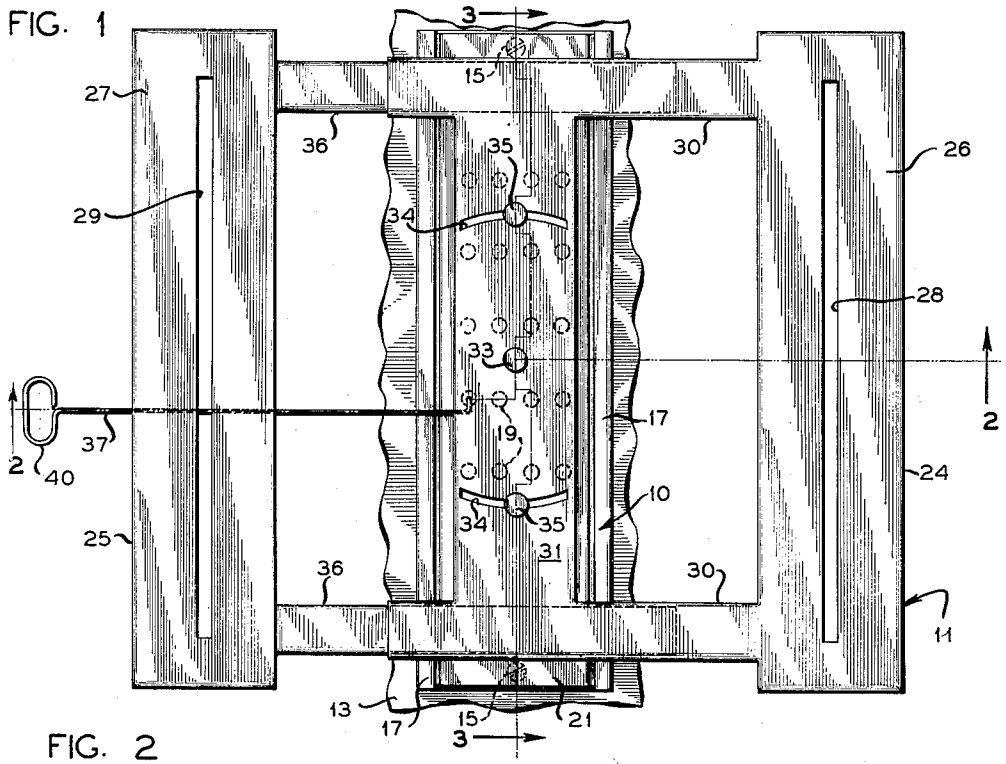


FIG. 2

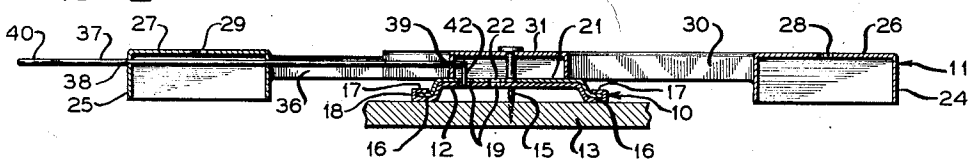


FIG. 3

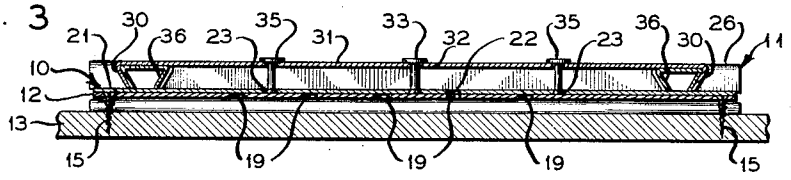
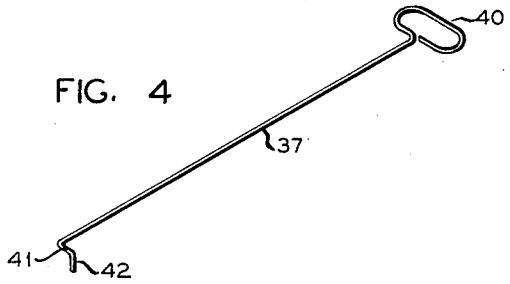


FIG. 4



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FIG. 5

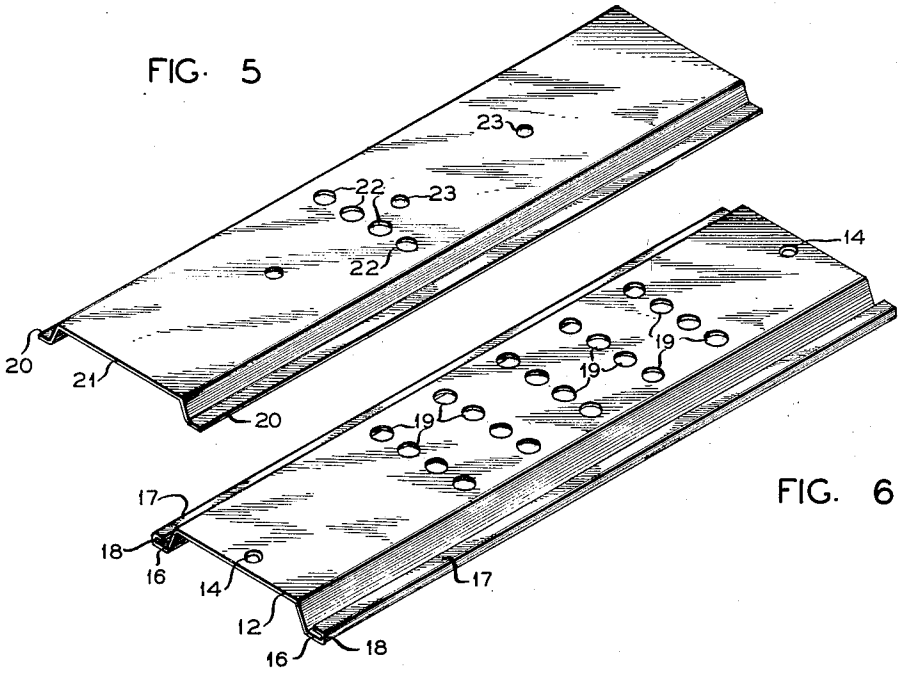
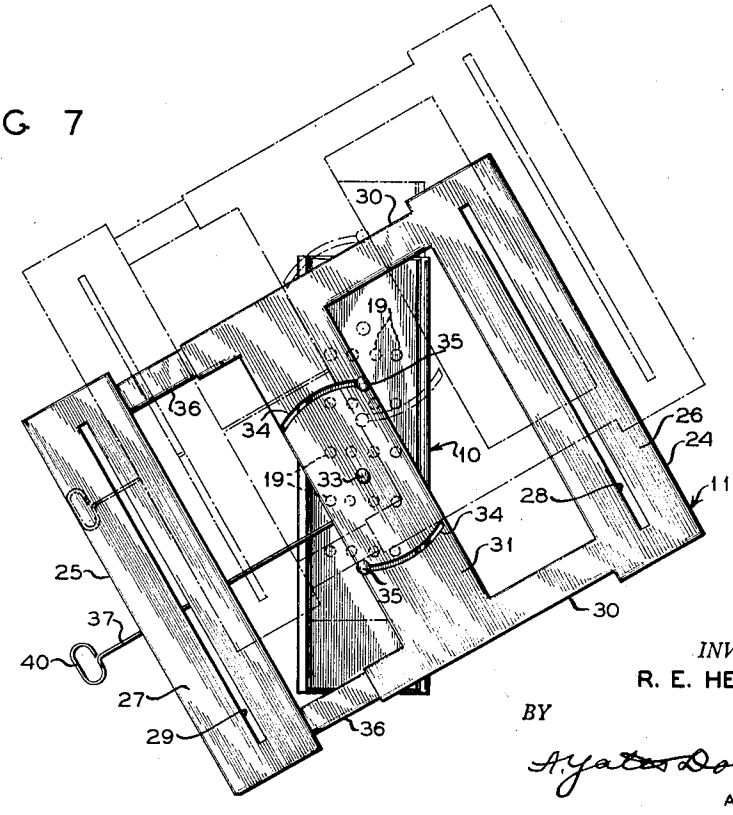


FIG. 6

FIG. 7



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ADJUSTABLE TYPEWRITER BASE

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9 Claims. (Cl. 248—23)

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This invention relates to supports and more particularly to an adjustable base for supporting a typewriter or other appliance in a variety of positions suitable to the operator or the work being undertaken.

Briefly stated, the invention comprises a support in the nature of a turntable adapted to be secured to an article of furniture such as a desk or other appropriate foundation and includes means for adjustably accommodating the support to various sizes of typewriters or other appliances and also includes means for permitting the appliance to be moved toward or from the desk or other foundation and at the same time permits appropriate angular movement whereby the typewriter or appliance is presented to the operator in a convenient and comfortable position.

It is therefore an object of this invention to provide a supporting base for typewriters or other appliances which is adapted to be conveniently secured to a desk or other appropriate foundation and including means to permit sliding movement of the support relative to the desk or foundation whereby the typewriter or other appliance may be located wholly within the confines of the desk or may be supported in a projected position outwardly of the desk.

It is a further object of the invention to provide a supporting base for a typewriter or other appliance which includes means for permitting angular adjustment of the base regardless of the position thereof relative to the desk and which may be locked in such angularly adjusted position in order to present the typewriter or other appliance in a position which is convenient to the operator.

It is a further object of the invention to provide a support for typewriters or other appliances which may be constructed almost entirely of sheet metal stampings or other equivalent structural forms resulting in an extremely economical device which may be manufactured and sold in a highly competitive market.

Further objects and advantages of the invention will be apparent from the following description taken in conjunction with the accompanying drawings, wherein:

Fig. 1 is a top plan view of the support of this invention;

Fig. 2, a sectional view on the line 2—2 of Fig. 1;

Fig. 3, a sectional view on the line 3—3 of Fig. 1;

Fig. 4, a perspective view of the locking bar

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utilized to lock the support in adjusted angular position;

Fig. 5, a perspective view of the upper portion of the sub-base;

Fig. 6, a perspective view of the lower portion of the sub-base; and,

Fig. 7, a top plan view showing in full lines the support in one position and in phantom the support in a different position.

With continued reference to the drawings the adjustable base or support of this invention comprises two main sub-assemblies, the first being a sub-base 10 and the second being the supporting base 11 which serves to directly engage and support the typewriter or other appliance. The sub-base 10 as best shown in Figs. 2, 5, and 6 comprises a lower member 12 of generally channel cross section which may rest upon and be secured to a supporting surface 13 such as the top of a desk or other foundation. The member 12 is provided with apertures 14 adjacent each end thereof for receiving screw threaded fastening means or the like 15. Member 12 is provided with side flanges 16 which are bent inwardly at 17 to provide a longitudinal groove or track 18. The member 12 is also provided in the top surface thereof with a plurality of apertures 19 arranged in substantially parallel rows, the purpose of which will be presently described.

Slidably received in the grooves or tracks 18 are the longitudinal side flanges 20 of the upper sub-base member 21 which is also of channel cross section and which serves to receive the lower sub-base member 12 in nested relationship as clearly shown in Fig. 2. Upper sub-base member 21 is provided in the upper surface thereof with a plurality of apertures 22 designed to cooperate with the apertures 19 in lower sub-base member 12 in a manner and for a purpose to be presently described. Member 21 is also provided in the upper surface thereof with a plurality of apertures 23 which serve to receive fastening means for securing the member 21 to the main base member 11.

The main base member 11 as shown in Figs. 1 and 2 is of sheet metal construction and comprises two slidably related side sections 24 and 25, these sections having relatively broad flat surfaces 26 and 27 adapted to support the legs of the typewriter or other appliance, sections 24 and 25 also being provided with longitudinal slots 28 and 29 to receive fastening means for securing the typewriter or other appliance in position.

Side section 24 is provided adjacent each end thereof with arms 30 extending at substantially

right angles thereto, these arms having a dove-tail cross section. Connecting the arms 30 and disposed in substantially parallel relationship to the section 24 is a channel shaped portion 31 which is adapted to rest upon the upper surface of upper sub-base member 21 and which is provided with a central aperture 32 for receiving a rivet or other appropriate fastening member 33 which also engages the central aperture 23 in member 21 and serves to secure portion 31 to member 21 in pivotal relationship. Portion 31 is also provided with arcuate slots 34 disposed on each side of the rivet 33, these slots serving to receive pins or other appropriate members 35 which are fixed in the remaining apertures 23 in the member 21. Pins 35 engaging in the arcuate slots 34 serve to limit the pivotal movement of portion 31 and associated parts with relation to the sub-base 10, and also cooperate with the rivet 33 to prevent separation of the members 12 and 21.

The side section 25 of the upper base 11 is also provided with parallel arms 36 extending at substantially right angles thereto, these arms being of dove-tail cross section and being telescopically received within the arms 30 in order to permit adjustment of the distance between side sections 24 and 25 thereby accommodating typewriters or other appliances of different widths. No means is provided for securing sections 24 and 25 in adjusted relationship since the engagement of the fastening means in slots 28 and 29 for securing the typewriter or other appliance thereto will effectively prevent relative movement between these sections.

It will be seen from the above description that the upper base 11 provides in effect a turntable pivotally mounted upon the sub-base 10, the relative pivotal movement being limited by the engagement of pins 35 in arcuate slots 34. In order to lock the upper base 11 in any intermediate angular position relative to the sub-base 10 there is provided a locking bar 37 which is rotatably and slidably received in apertures 38 in section 25 and in aperture 39 in portion 31. Locking bar 37 is provided adjacent its outer end with a handle 40 for convenient manipulation by the operator and at its inner end with a horizontal angularly extending portion 41 terminating in a downwardly extending locking portion 42. As best shown in Figs. 1 and 2, the locking portion extends through a selected aperture 22 in the upper sub-base member 21 and through the corresponding or mating aperture 19 in the lower sub-base member 12. This engagement of the locking portion 42 serves to prevent relative angular movement between the sub-base 10 and the upper base 11. The locking portion 42 may be conveniently disengaged from the apertures by rotation of the handle 40. If desired apertures 22 might be arranged in an arc in which case locking bar 37 need not be slidable but only rotatable. Also if desired resilient means may be provided for urging locking portion 42 into engagement with apertures 22 and 19.

Since, as shown in Fig. 7, the upper base 10 and upper sub-base member 11 are slidably mounted with relation to the lower sub-base member 12 it follows that apertures 22 in the upper sub-base member 21 would register with different apertures 19 in the lower sub-base member 12 depending upon the relative longitudinal position of these members. It will also be obvious that upon relative angular movement between the upper base 11 and the sub-base 10, if the locking portion 42 of the bar 37 were fixed in one position relative to the upper base 11, that the locking portion 42 would register with one of the apertures 22 in the upper sub-base member 21 only in a given position of the upper base 11. Consequently, the bar 37 is slidably mounted in apertures 38 and 39 in order to permit moving this bar inwardly or outwardly in order to register with the appropriate aperture 22 and the particular aperture 19 positioned therebeneath in any angular adjustment of the upper base 11 within the limits provided by the arcuate slots 34. Thus the locking bar 37 and locking portion 42 may be utilized to secure the upper base 11 and the sub-base 10 against relative angular movement in any desired position.

As will be sen from an inspection of Fig. 7, the support of this invention may be disposed in any desired position inwardly or outwardly of the desk or other foundation and in any of these positions may be angularly adjusted and locked in such adjusted position to support the typewriter or other appliance in a suitable and convenient location. It will likewise be seen that the support of this invention may be conveniently constructed of relatively simple inexpensive sheet metal stampings and that the locking bar 37 may be formed of wire by simple bending operations. The support is sufficiently rugged and stable to accomplish the purpose for which it is intended and may be conveniently utilized in conjunction with conventional or already existing equipment to provide a substantially universal mounting therefor resulting in greater versatility and substantially increased efficiency of the personnel using the typewriter or other appliance.

It will be obvious to those skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is shown in the drawings and described in the specification but only as indicated in the appended claims.

What is claimed is:

1. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base comprising spaced parallel side sections for receiving and supporting said appliance, slots in said sections for receiving fastening means to secure said appliance thereto, said sections being connected by spaced parallel telescopically related arms of dove-tail cross section whereby the distance between said sections may be varied to accommodate appliances of different widths, a portion connecting said arms and being pivotally mounted upon said upper member, arcuate slots in said portion, pins secured to said upper member and extending through said slots to limit relative angular movement between said upper base and said sub-base, a plurality of rows of apertures in said lower member, a single row of apertures in said upper member, said single row of apertures registering with one of said plurality of rows depending upon the longitudinal relationship between said upper and lower members and a locking bar slidably and rotatably mounted in said upper base having a locking portion selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surface.

2. An adjustable support for appliances including an upper base and a sub-base, said sub-base

comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base comprising spaced parallel side sections for receiving and supporting said appliance, means in said sections for receiving fastening means to secure said appliance thereto, said sections being connected by spaced slidably related arms of dove-tail cross section whereby the distance between said sections may be varied to accommodate appliances of different widths, a portion connecting said arms and being pivotally mounted upon said upper member, means to limit relative angular movement between said upper base and said sub-base, a plurality of rows of apertures in said lower member, a single row of apertures in said upper member, said single row of apertures registering with one of said plurality of rows depending upon the longitudinal relationship between said upper and said lower members and a locking bar slidably and rotatably mounted in said upper base having a locking portion selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surfaces.

3. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base comprising spaced parallel side sections for receiving and supporting said appliances, said sections being connected by spaced parallel slidably related arms whereby the distance between said sections may be varied to accommodate appliances of different widths, a portion connecting said arms and being pivotally mounted upon said upper member, means to limit relative angular movement between said upper base and said sub-base, a plurality of rows of apertures in said lower member, a single row of apertures in said upper member, said single row of apertures registering with one of said plurality of rows depending upon the longitudinal relationship between said upper and lower members and a locking bar slidably and rotatably mounted in said upper base having a locking portion selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surface.

4. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base comprising spaced side sections for receiving and supporting said appliances, said sections being slidably connected whereby the distance therebetween may be varied to accommodate appliances of different widths, means pivotally mounting said sections upon said upper member, means to limit the relative angular movement between said upper base and said sub-base, a plurality of apertures in said lower member, a plurality of apertures in said upper member, the apertures in said upper member registering with certain of said apertures in said lower member depending upon the longitudinal relationship between said upper and lower members and a locking bar slidably and rotatably mounted in said upper base having a locking portion selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surface.

5. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base comprising spaced side sections for receiving and supporting said appliances, means adjustably connecting said sections whereby the distance therebetween may be varied to accommodate appliances of different widths, means pivotally mounting said sections upon said upper member, means to limit pivotal movement between said upper base and said sub-base, apertures in said lower member, apertures in said upper member, the apertures in said upper member registering with certain of the apertures in said lower member depending upon the longitudinal relationship between said upper and lower members and a locking bar mounted in said upper base having a locking portion selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surface.

6. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base comprising spaced side sections for receiving and supporting said appliances, means adjustably connecting said sections whereby the distance therebetween may be varied to accommodate appliances of different widths, means pivotally mounting said sections upon said upper member, means to limit pivotal movement between said upper base and said sub-base, apertures in said lower member, apertures in said upper member, the apertures in said upper member registering with certain of the apertures in said lower member depending upon the longitudinal relationship between said upper and lower members, and means on said upper base selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting base.

7. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base having means for receiving and supporting said appliance, said upper base being pivotally mounted upon said upper member, means to limit pivotal movement between said upper base and said sub-base, apertures in said lower member, apertures in said upper member, the apertures in said upper member registering with certain apertures in said lower member depending upon the longitudinal relationship between said upper and lower members, and means on said upper base selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surface.

8. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base having means for receiving and supporting said appliances, means pivotally mounting said upper base on said upper member, a plurality of apertures in said lower member, a plurality of apertures in said upper member, the apertures in said upper member registering with

certain of the apertures in said lower member depending upon the longitudinal relationship between said upper and lower members, and means on said upper base selectively engageable with the appropriate registering apertures to lock said upper base in adjusted position relative to said supporting surface.

9. An adjustable support for appliances including an upper base and a sub-base, said sub-base comprising upper and lower members secured together in slidable relationship and means to secure said lower member to a supporting surface, said upper base having means to receive and support said appliances, means pivotally mounting said upper base upon said upper member and means on said upper base engaging portions of said upper and lower members to lock said upper base in adjusted position relative to said supporting surface.

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No references cited.