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TYPEWRITING MACHINE AND STAND

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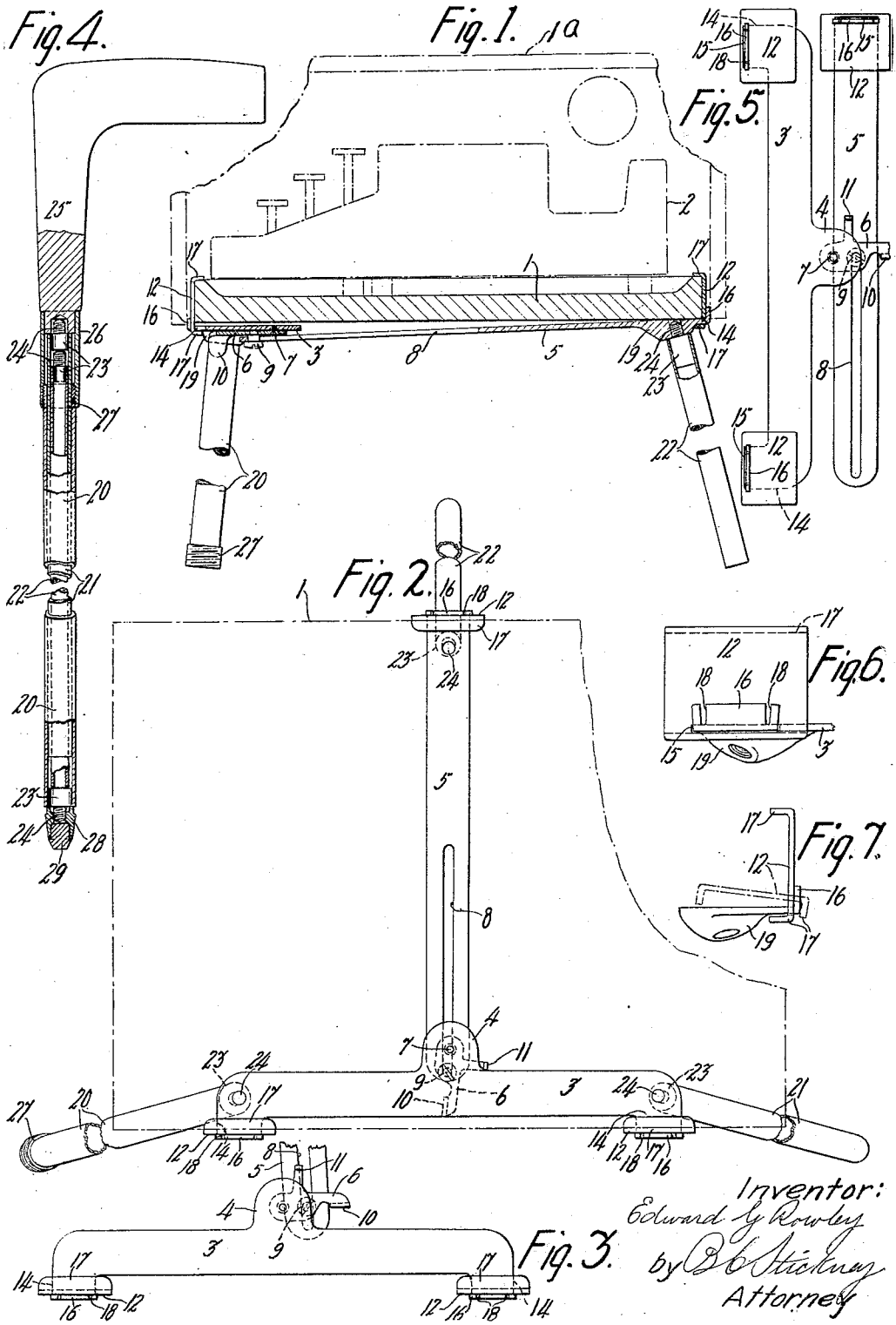

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TYPEWRITING MACHINE AND STAND

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This invention is for improvements in typewriting machines and accessories therefor, and, with respect to its more specific features, in collapsible stands for machines of the portable type.

A feature of the invention is the provision of mechanism, partly carried by the supporting base of a portable typewriting machine, and partly separate therefrom when not in use, for co-operating with the base to form a stand of the proper height to support the machine when in use.

Another feature is the provision of an accessory device capable of being clamped on the typewriter base to be carried thereby, and providing a means for connecting a set of legs to the base.

Another feature is the provision in such an apparatus of a set of legs, capable, when not in use, of being assembled in compact form and of making a unitary package for convenience of carriage.

Another feature is the provision in such a mechanism of a set of legs, one of which is chambered to receive the others, and wherein means is provided for connection with the leg to convert it into a closed casing, and to provide a handle for convenience in transportation.

Another feature is the provision of a stand of the collapsible type, capable of ready assemblage and disassemblage, and wherein one of the elements thereof is constructed to receive other elements for convenience of transportation.

Other features and advantages will hereinafter appear.

In the accompanying drawings,

Figure 1 is a side view of the accessory, with the base and clamp in section.

Figure 2 is a top plan view.

Figure 3 is a partial plan view of the clamping mechanism, with the parts in operative position.

Figure 4 is a front view of the legs nested for carriage.

Figure 5 is a plan view of the clamping mechanism, with the parts folded.

Figure 6 is a front view of one of the base-engaging elements.

Figure 7 is a side view of the same.

The present embodiment of the invention is shown in connection with the base 1 of a portable typewriting machine, indicated at 2, the machine being secured to the base in the usual manner, and the base forming one of the elements of a carrying case for the machine. In the usual construction, the base fits into the open side of the cover-part of the case indicated in dotted lines at 1^a, the cover-part engaging outside the edges of the base, and suitable mechanism is provided for locking the base in the cover-part.

The improvement includes mechanism partly carried by the base, and which may be permanently connected therewith if desired, and partly separate therefrom when not in use, the elements co-operating with the base to form a stand of the proper height for supporting the machine in writing position. The portion of the mechanism carried by the base is a two-part clamping member, consisting of a strap or bar 3, having a lateral lug 4 intermediate its end, and a strap or bar 5 which is connected to the lug, and which when in use extends substantially perpendicular to the bar 3, but which may be folded in parallelism therewith, as shown in Figure 5.

The connection between the lug and the bar 5 includes a lever 6, pivoted at one end to the lug, as indicated at 7, and having a sliding or pin-and-slot connection with the bar 5 intermediate its ends. The bar 5 is longitudinally slotted at the end adjacent to the lug 4, as indicated at 8, and a screw 9, carried by the lever, slides in the slot. The lever has a finger-piece 10 for convenience in manipulating the same, and it is provided with a laterally-extending stop-arm 11, which engages the bar 3 when the lever is in locking position, that is, when the lever is just beyond alignment with the slot 8, in the position of Figure 2.

Each end of the bar 3, and that end of the bar 5 remote from the bar 3, has a leaf 12 hinged thereto, in such manner that the leaf may take a position at right angles to the plane of the bar, as shown in full lines in Figure 7, or may fold thereon, as shown in

dotted lines in said figure. Each end of the bar 3 has at the edge remote from the bar 5 a lateral lug 14, and the leaves 12 are connected with these lugs. The ends of the lugs, and the end of the bar 5, are passed through slots 15 in the leaves, after which the extremities of the lugs and the bar are upturned, as shown at 16, and expanded to prevent disengagement of the leaf.

The upper and lower edges of each leaf have inwardly-extending flanges 17, the lowermost of which by its engagement with the bar 5, or lug 14, as the case may be, co-operates with the upturned end 16 of the lug or bar, to limit the outward movement of the leaf, with respect to the bar, to the full-line position of Figure 7. As shown in Figure 6, the ends of the lugs and bar are expanded by providing vertical slots 18 near the ends of the upturned portions, and by bending slightly outward the portions outside of the slots. The leaves 12 engage the edges of the base, as shown in Figure 1, the flanges 17 engaging the upper face of the base, to prevent upward movement thereof with respect to the clamp-mechanism, when it is in place on the base.

The clamping member carries mechanism for connecting a set of legs, to be described, to the base, and said member may be permanently connected to the base, that is, it may be left in place on the base when the base is in place in the cover-part of the case, or it may be removed and collapsed into the position of Figure 5. In the present instance, the means for connecting the set of legs to the base includes internally-threaded nipples 19 on the under faces of the bars 3 and 5, at the free ends thereof. Each of these nipples, as shown in Figure 1, has the axis thereof inclining outwardly towards its lower end, and the nipples are so placed that they act as limiting means for the leaves 12, to limit the inward movement thereof, with respect to the respective bars.

The part of the machine-supporting mechanism which is separate from the base, when not in use, includes a set of legs, three in the present instance. The legs, indicated at 20, 21 and 22, respectively, are of tubular material, in the present instance cylindrical. The leg 22 fits in the leg 21, and the leg 21 fits in the leg 20; thus all of the legs may be nested in the leg 20. Each of the three legs has a filler-block 23 at one end, and each of the blocks is provided with a reduced threaded stem 24 for engaging one of the nipples 19. When not in use, the legs may be detached from the clamping member, and fitted one within the other, thus providing a compact arrangement for convenience in carriage.

Mechanism is provided for co-operating with the leg 20 to form a cane or walking-stick. Said mechanism comprises a handle 25, which may be of any suitable shape and size, and the handle, which may be of any desired material, has a ferrule or socket 26 at one end, which is internally threaded to receive an end of the leg 20. The leg 20 has an external thread 27 at the opposite end from the stem for engaging within the socket. It will be obvious that with the handle the outer leg is converted into a closed casing for holding the other legs of the set. A foot is also provided for the lower end of the leg 20, said foot comprising a member 28, carrying a plug 29 of rubber, or the like, and internally threaded to receive the stem 24 of the outer leg. This plug 29 engages the ground when the assemblage is used as a walking-stick, thus reducing the jar. It also protects the threads of the stem 24 of the leg 20.

In practice, when the accessory is not in use, the clamping member is carried by the base, and the set of legs, assembled as shown in Figure 4, may be carried as a walking-stick. When it is desired to use the machine, the handle is unscrewed, the foot is removed, and the legs 21 and 22 are withdrawn from the leg 20. The stems 24 of the legs are engaged with the nipples 19, and, since the legs are of a length to support the machine at the proper height for writing, it is ready for use. During temporary discontinuance of the use, it is not necessary to remove the legs, since the cover may be attached to the base with the parts in the position of Figure 1. When, however, the machine is to be transported, the legs are detached and assembled in the manner shown in Figure 4. The clamping member may also be removed from the base if desired, and the bars arranged alongside each other.

The inclined arrangement of the threaded nipples provides for the converging of the legs toward the typewriter. Thus a broad base is provided for the stand, and the legs are braced against each other. Referring to Figure 2, it will be noticed that the bar 3 is arranged at the front of the base and substantially parallel with the front edge, so that two legs are at the front of the base and one at the rear, and the leaves 12 do not interfere with the lock of the casing, nor with the hinges thereof, the front leaves being at opposite sides of the lock, while the rear leaves are between the hinges. With two legs at the front, the stand may be set close to the user, with the legs astride the lap. Teetering or rocking of the machine during use is also prevented by the arrangement of the legs. All of the legs are of the same length and of such length that when connected with the machine it is supported at the proper height for use. Thus the efficiency of the portable typewriter as regards portability is greatly increased.

While the improved accessory is particularly designed for use with a portable typewriter, it is also of use for other purposes, in

which a collapsible stand is desired. With the base 1, or a similar member, the clamping member and the legs cooperate to provide a collapsible stand which may be used for any purpose, and which, when the legs are detached and assembled, as shown in Figure 4, forms two sections, of light weight and easily carried.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. A support including a board and a set of portable legs therefor and means to enable said legs to utilize said board to support the board and one another in supporting position, said last-mentioned means including a two-part clamp, and a connection between the parts for moving them toward and from each other, each clamp-part carrying clamping leaves for engaging the edges of the board, the leaves being hinged to the clamping means to stand at right angles thereto, or to fold thereon, the hinged connections including slots in the leaves through which the clamp parts extend.

2. A support for a portable typewriting machine including a board and a set of detachable legs and means to enable said legs to utilize said board to support one another, said bars having at their ends two part clamps and a connection between the bars for moving them toward and from each other including a slot and eccentric pin, each clamp part carrying clamping leaves normally held at right angles to the clamping parts but foldable thereon.

3. A support including a board and supporting legs, said legs being of different diameters and the larger legs being hollow whereby smaller legs may be nested in the larger ones for transportation, clamping means for the board including a plurality of bars with clamps thereon, said bars when in clamping position being at an angle to each other and connections between the parts that permit them to be turned in parallel relation for transportation and means for attaching the legs to the clamping parts.

4. A support including a board and a set of legs and means to operatively connect the legs to the support comprising a two-part clamp, said clamp including bars pivoted to each other and means for moving the bars to clamp the board including a lever and means for attaching the legs to the bars.

5. A support for a portable typewriter comprising a board adapted for use as the bottom of a typewriter case, means collapsible to facilitate transportation for clamping said board, said means comprising bars having clamps at their ends for embracing the edges of said board, means for drawing together the bars to clamp the board and legs detachable from and attachable to the clamping ends of the bars, said legs being of different diameters and hollow whereby the smaller legs may be nested in the larger legs when the clamps are detached from the board and the parts collapse for transportation.

6. A support for a portable typewriter comprising a board adapted for use as the bottom of a typewriter case, means collapsible to facilitate transportation for clamping said board, said means comprising two bars, one having clamps at both ends and the other at one end for embracing the edges of said board, means at one end of one bar and intermediate the ends of the other bar for drawing together the bars to clamp the board and legs detachable from an attachable to the clamping ends of the bars.

7. A support including a board, clamping means and detachable legs, the clamping means comprising parts to engage the board, and bars, one of which has a slot therein and the other an eccentric pin operable in said slot to operate the clamps to hold them to the board and means for detachably connecting the legs to the clamping means.

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