June 12, 1934. W. A. DOBSON 1,962,177

TYPEWRITING MACHINE

Filed Feb. 25, 1931

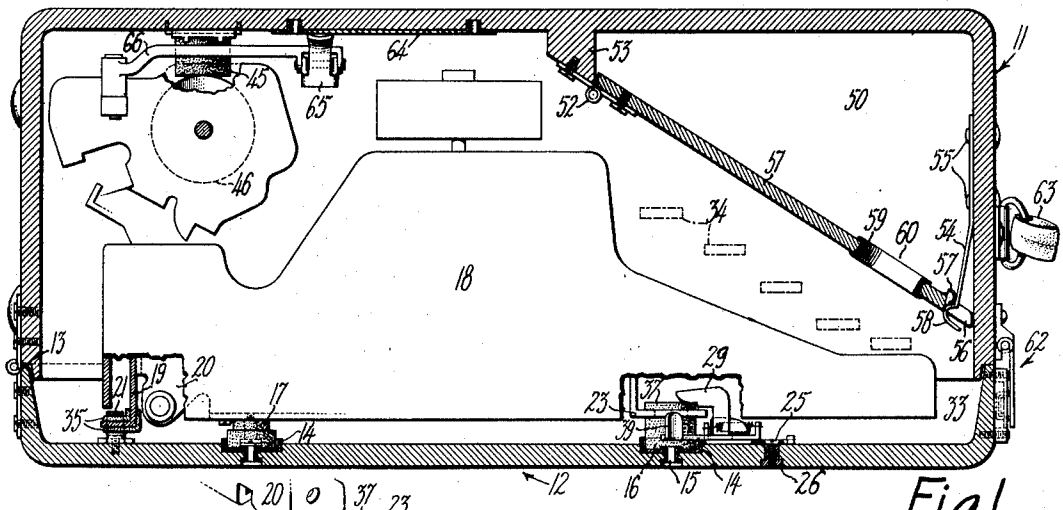


Fig. 1.

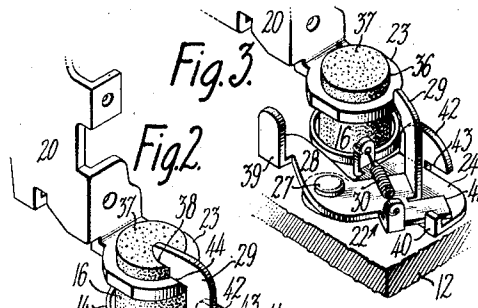


Fig. 3.

Fig. 2.

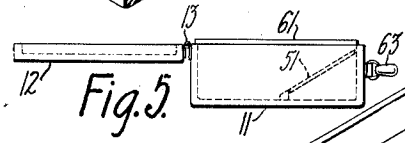


Fig. 5.

Fig. 4.

Fig. 6.

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Patented June 12, 1934 1,962,177

UNITED STATES PATENT OFFICE

1,962,177

TYPEWRITING MACHINE

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Application February 25, 1931, Serial No. 518,078

11 Claims. (Cl. 248—16.5)

This invention relates to portable typewriters, and is illustrated in connection with an Underwood portable typewriter-head, which is usually mounted in the separable parts that may at any time be attached to each other for temporarily encasing the head for transportation.

According to the present invention, the machine is mounted ready for use in an over-night traveling bag, so that the machine can be manipulated without removing it from the bag. The machine is fastened to the bag by readily manipulated devices that permit the machine to be taken out, thus leaving an empty traveling bag which is available for clothing and traveling equipment; such bag conforming in size, style and appearance to the usual type of over-night bag, comprising a deep body to which is permanently hinged a shallow lid.

The machine is fastened within the shallow lid of the over-night bag, which is inseparably secured to the body-portion of the bag by means of a permanent hinge. When it is desired to typewrite, the bag with the machine in it may be set down upon a table, and then the body-portion may be swung upwardly and rearwardly about its hinge, thus uncovering and exposing the typewriter in operative position mounted within and rising above the shallow lid, and in condition for immediate operation, without detachment of the typewriter from the traveling bag.

In the lid are sockets which receive the rubber feet of the typewriter, and there is also provided in the lid an eyepiece, with which interlocks a tongue which is provided upon the bottom of the typewriting machine at its rear edge. Co-operating with the rear fastening, to secure the machine to the lid, are two front devices that releasably hook over lugs that are provided upon the machine to carry the front rubber feet. These hooks are locked by means of pivoted buttons, and the typewriter is firmly secured.

In the body of the over-night bag are provided cushions, which overhang and rest upon the top of the platen of the typewriter, whereby the carriage is kept from jumping during the transportation of the machine. The ends of the carriage of the typewriter are closely confined by the sides of the body of the carrying bag, so that there may be no endwise shake of the carriage during transportation.

After the buttons are released and the tongue withdrawn, the typewriter may be withdrawn from the lid; and then the traveling bag may be turned over and laid upon its opposite side, so that the lid will be at the top and the body of the bag at the bottom, thus affording opportunity for filling the bag with traveling equipment.

A space for stationery and the like is provided in the body of the traveling bag over the keyboard of the typewriter, this space being secured by the use of a flap, which is hinged at its rear edge to a support within the body of the bag, and inclines downwardly and forwardly over the keyboard of the typewriter, and is latched in closed position. When the bag is resting upon its lid side, and the body side is swung up and back, this flap may be unlatched and the stationery compartment opened.

Other features and advantages will hereinafter appear.

In the accompanying drawing,

Figure 1 is a cross-section through the novel overnight bag, showing the typewriter mounted therein, with parts broken away for clearance.

Figure 2 is a perspective view of one of the latches for holding the front of the typewriter to the lid of the bag, the parts being in effective positions.

Figure 3 is similar to Figure 2, but shows the parts in released or ineffective positions.

Figure 4 is a perspective, showing the over-night bag opened up and the typewriter-head detached therefrom.

Figure 5 is a diagrammatic view, showing the empty over-night bag in position to be filled with traveling equipment.

Figure 6 is a diagrammatic view, showing the typewriter mounted in the lid of the bag and in position for typing.

In carrying out the invention, a deep body-portion 11 and a shallow lid-portion 12 are permanently secured together by a pair of hinges 13, to form an over-night bag 10.

Four metallic sockets 14 are provided in the lid 12, and riveted at 15, to receive front and rear rubber feet 16 and 17 of a portable typewriter-head 18.

A rearwardly and downwardly extending hook or tongue 19 is rigidly mounted on the rear of an inner frame 20 of the typewriting machine, to fit in an eye or keeper 21 formed by a projecting angular plate fixed to the lid 12. This hook 19 and keeper 21 co-operate with a pair of releasable latches 22, near the front of the machine, to hold the typewriter-head to and support it upon the lid 12 for transportation and other use.

The latches fit over forwardly-extending lugs 23, forming part of the inner typewriter-frame

20 and carrying the front rubber feet 16. Each latch 22 includes a flat metallic plate 24, fixed to the lid 12 of the bag 10 by a countersunk screw 25, threaded into a metallic bushing 26 imbedded in the lid 12, and a shoulder-screw 27, which may be also threaded into a similar bushing (not shown).

The plates 24 are located adjacent the front sockets 14, and have pivoted thereon latch-members 28, which are held to the plates 24 by the shoulder-screws 27. Each latch-member 28 is constructed of a flat piece of metal and has a hook-portion 29 bent up at one end to fit over the lugs 23 and rubber feet 16, for holding the machine to the lid 12. The hook 29 is normally held in position by a spring 30 fastened at one end to an upturned ear 31 on latch-portion 28, and at its other end to a similar ear 32 on the plate 24. The spring 30 draws the latch-portion 28 against the ear 32, so that this ear also acts as a stop to limit the forward swinging movement of the hook 29 over the feet 16.

The lid 12 includes a shallow side flange 33, and when the typewriter-head is mounted in the lid 12, type-keys 34 extend above said flange 33, thereby permitting the typewriter to be operated without removing it from the bag 10. The lid 12 with the typewriter fastened therein is set upon a table, and the body-portion of the bag is swung upwardly and rearwardly about its hinge in back of the typewriter-head, the parts being in the position shown in Figure 6.

During the operation of the typewriter, it is desired to prevent the vibrations of the machine from being transmitted to the lid 12, and hence to the table. To accomplish this, the machine is completely insulated from the lid, this insulation including a rubber strip 35, which is carried on the hook 19 to insulate it from its keeper 21. The front and rear rubber feet 16, 17 of the typewriter further insulate the machine from the lid to deaden the sound.

In order to insulate the front clamps or hook-members from the machine, the typewriter-feet 16 are made of solid soft rubber, and extend through openings 36 in the holding lugs 23, to form extensions 37 above the lugs 23. The hooks 29 are provided with beveled edges 38 which engage the extensions 37, and are pulled over the top of said extensions by means of the springs 30. In this manner, when the typewriter is operating, the hooks 29, engaging in the rubber extensions 37 of the feet 16, do not contact with any metallic part of the machine, and therefore prevent any vibration of the machine from being transmitted to the lid.

A button 39 is provided on the extreme outer end of the latch-portion 28 to enable it to be swung around its pivot and move the hook 29 away from the foot 16, thereby permitting the typewriter to be lifted off from the lid of the bag. The swinging movement of said hook away from said foot is limited by a stop 40 engaging an extension 41 of the latch-member 28.

The flat plate 24 has a piece 42 bent up at right angles and provided with a slot 43 to receive the extension 41 of the latch-member 28. The plate 24 thus acts as an anchorage to cooperate with the screw 27 for firmly holding the latch-member 28 to the lid 12 and preventing the machine-head from being torn loose by severe jarring during transportation. The jarring is cushioned to a great extent by means of the extension 37 of the rubber feet 16, in yielding contact with hooks 29. The extension 37 becomes slightly compressed where it contacts with the hooks 29, and the edges 44 of the hooks 29 engage the lugs 23 and form a rigid hold on the machine.

Soft rubber pads 45, suitably fastened to the bottom of the body-portion 11, rest upon the typewriter-platen 46, to aid in cushioning the machine in transportation.

A compartment 50 for stationery, etc., is provided in the body 11 directly over the typewriter-keyboard. This space is set apart by means of a transverse flap 51 swingably supported along one side by hinges 52 fastened to a support 53 upon the body-portion. The flap 51 inclines downwardly and forwardly over the keyboard, and is latched by a resilient spring-catch 54 riveted at 55 to the front wall of the body 11. The catch extends inwardly from the wall and fits in a cut-out 56 in the flap 51 and presses against the edge 57 of the cut-out 56 to hold the flap in position. The inner end of the catch 54 is bent to form a snap 58, which further aids in holding the flap securely.

A ring 59 may be located directly in front of the catch 54, and permanently fastened in an opening 60, sufficiently large to permit a finger to be inserted to swing the flap up.

When it is desired to empty the over-night bag for packing traveling equipment, the typewriter is gripped at each side, and the buttons 39 are pressed inwardly to swing the hooks 29 away from the feet 16. The typewriter-head may then be lifted at the front and pulled forward to unhook the rear fastener 19, 20, when the machine can be taken out of the bag. At this time the body-portion is set upon the table, ready to receive the desired equipment (Figure 5).

A rim 61 surrounds the body 11, and fits within the lid, making a close, dust-proof joint. A lock 62 may be provided for the bag.

A handle 63, attached to the front wall of the body 11, is so placed between the extreme top and bottom edges of the closed bag, Figure 1, as to equalize the weight of the typewriter, so that the bag will hang straight.

A thin plate 64 is fixed to the bottom of the body-portion 11, to depress a spring-pressed pivoted handle 65 of the regular line-space lever 66, when the machine is mounted within the bag. The plate 64 thus serves to prevent the line-space handle from wearing a hole in the body 11 at its point of contact.

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. In a typewriter-case having a cover and a lid hinged together for carrying a typewriter, front hooks at the sides of the lid to lock over retaining devices that are provided upon the body of the machine, each of said hooks having a base-portion pivoted to a plate fixed upon the inner face of the lid, and also having a hook-portion rising from said base-portion to catch over a lug in the typewriter-frame; each of said base-plates having a bent-up catch formed integrally with said plate to catch over an end provided upon the pivoted hook so that the hook is not drawn from the plate by a strain upon the typewriter; and a spring for holding the hook in effective locked position.

2. For use with a typewriter-supporting base; a typewriter-clamp including a plate resting on said base, a substantially flat lever pivoted facewise to said plate and having an upstanding typewriter-holding-down hook spaced laterally from

the pivot-point, said plate having a turned-up catch formed integral therewith and overlying a portion of the upper face of said lever adjacent said hook to prevent upward displacement of the hook, and a headed and shouldered screw forming the lever-pivot threaded into said base and serving by means of its shoulder to secure said plate to said base, the head of the screw retaining said lever, the hook-lever being separable from said plate upon removal of said screw.

3. For use with a typewriter-supporting base; a typewriter-clamp including a plate resting on said base, a substantially flat lever pivoted facewise to said plate and having an upstanding typewriter-holding-down hook spaced laterally from the pivot-point, said plate having a turned-up catch formed integral therewith and overlying a portion of the upper face of said lever adjacent said hook to prevent upward displacement of the hook, and a headed and shouldered screw forming the lever-pivot threaded into said base and serving by means of its shoulder to secure said plate to said base, the head of the screw retaining said lever, the hook-lever being separable from said plate upon removal of said screw, said plate having a stop against which the hook-lever abuts in its normal typewriter-holding position, said lever being swingable away from said stop to release the typewriter.

4. For use with a typewriter-supporting base; a typewriter-clamp including a plate resting on said base, a substantially flat lever pivoted facewise to said plate and having an upstanding typewriter-holding-down hook spaced laterally from the pivot-point, said plate having a turned-up catch formed integral therewith and overlying a portion of the upper face of said lever adjacent said hook to prevent upward displacement of the hook, a headed and shouldered screw forming the lever-pivot threaded into said base and serving by means of its shoulder to secure said plate to said base, the head of the screw retaining said lever, the hook-lever being separable from said plate upon removal of said screw, said plate having a stop against which the hook-lever abuts in its normal typewriter-holding position, said lever being swingable away from said stop to release the typewriter, and a spring yieldably holding said hook-lever against said stop.

5. In a typewriter-case having a cover and a lid hinged together, said lid having an eye-piece to engage a tongue upon the machine, and means co-operative with said eye-piece and tongue to secure the machine to the lid, said co-operative means including front hooks at the sides of the lid to lock over retaining devices provided upon the body of the machine, said retaining devices comprising rubber feet secured to the machine, fastening hooks provided with beveled edges which engage the rubber feet, for insulating the machine from the lid and hooks; and springs for pressing said hooks firmly down upon said rubber feet.

6. In a typewriter-case having a body-portion and a lid hinged together, the combination of an eye-piece on said lid to engage a tongue on the machine, and machine-securing means including rubber feet for the machine and front hooks at the sides of the lid to hook over and bear against said feet and press said feet against the lid, and means upon said lid to engage with said hooks to hold the same in effective positions over said feet; said lid having sockets for the feet of the typewriting machine, said lug, feet and sockets being effective to hold the machine against lateral displacement upon the lid.

7. In a typewriter-case having a body-portion and a lid hinged together, the combination of an eye-piece on said lid to engage a tongue on the machine, and additional machine-securing means including lugs on the machine, rubber feet to support the lugs, front hooks at the sides of the lid to hook over the lugs and rubber feet and press said feet against the lid, and means upon said lid to engage with said hooks to hold the same in effective positions, for catching over the lugs.

8. In a typewriter having a case including a lid, said lid having a hooking member to attach the rear end of the typewriting machine to the lid, co-operative front means to complete the attachment of the machine to the lid, said means including sound insulating rubber feet and hooks at the sides of the lid to catch over the tops of said feet, said typewriter having projections provided with perforations through which the rubber feet may extend and said hooks having shoulders to catch upon said projections and limit the relative play of the typewriter and the lid during transportation of the machine or when the portable typewriter is resting upside down in the case, said shoulders being normally clear of the projections when the machine is being operated.

9. In a typewriter having a case and a lid hinged together, said lid having a hooking member for holding the rear end of the typewriting machine in the case, cooperative front means to complete the attachment of the machine to the case, said cooperative front means including rubber feet, front hooks at the sides of the case to catch over the tops of said rubber feet, the typewriter having projections provided with perforations through which the rubber feet may extend, said hooks having shoulders to catch upon said projections and limit the relative play of the typewriter and the case during transportation of the machine or when the portable typewriter is resting upside down in the case, said hooks also having portions adapted to rest on said rubber feet and springs for swinging said plates to press said hooks down firmly upon the tops of said rubber feet when the machine is in use.

10. In a typewriter casing having a lid and cover, said lid having means to hold one end of the typewriter to the lid and means for attaching the other end of the typewriter to the casing comprising a lug on the typewriter machine, means attached to the lid and adapted to be manually cast off for releasing the machine and a rubber member, both the lug and rubber member being contactible with the means for manually casting off the releasing feature.

11. In a typewriter casing having a body portion and a lid, the combination of a means for attaching the typewriter to the casing at one end and means for securing the other end of the typewriter to the casing, comprising a lug on the machine, a rubber foot between the lug and the casing and a hook on the casing having a part extending over and contactible with both the rubber foot and the lug.

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