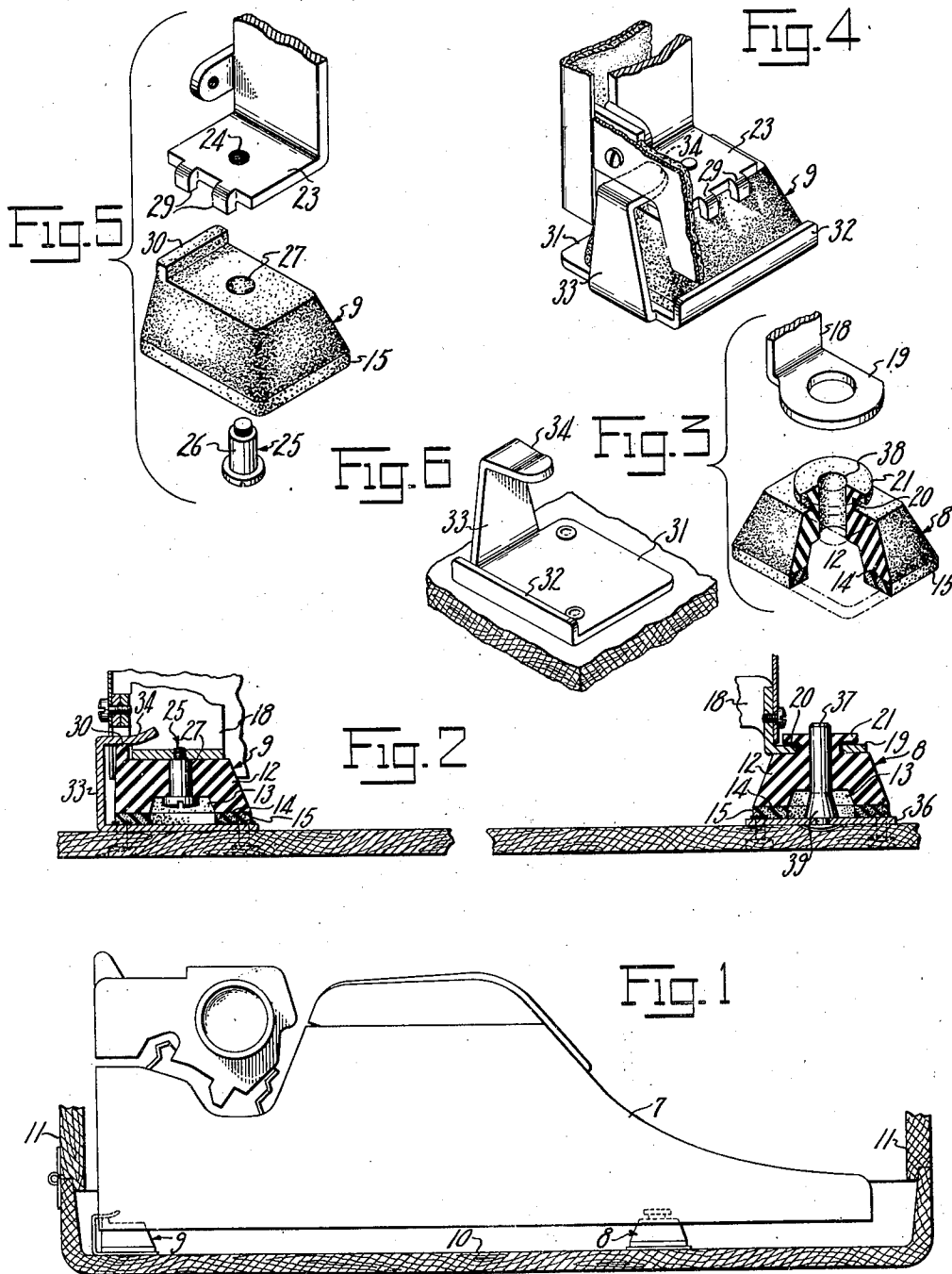


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TYPEWRITING MACHINE
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TYPEWRITING MACHINE

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2 Claims. (Cl. 248—24)

This invention relates to noise reducing devices for a typewriter or like machine and more particularly to devices of this character for holding a typewriter on its supporting structure.

5 A general object of the invention is to provide an improved sound dampening foot for the support of a typewriter on a desk or platform to substantially prevent transmission of sound vibrations via the foot, and thereby appreciably
10 reduce operating noises of the machine.

Another object is to provide an improved typewriter foot for cooperation with means for releasably holding the typewriter in position on a carrying case base member, the foot and the
15 holding means coacting to hold the machine in place within the carrying case during transit, or while operating the machine on the case member; in the latter use, preventing the transmission of operating noises to the case member, and
20 also affording instant detachment of the machine from the case when desired.

A further object is to provide an improved foot for a typewriter, particularly effective in supporting the typewriter on a desk top or other
25 smooth-surfaced platform, to render the machine substantially immovable thereon by affording a firm support, making a non-slipping, frictional contact with the supporting surface.

Other objects and advantages will hereinafter appear.

In the drawing,

Figure 1 is a side elevational view of a typewriter in position within a carrying case, the latter being partly shown, and in section.

35 Figure 2 is a fragmentary sectional view taken on the fore-and-aft plane through the typewriter and carrying case base, illustrating the front and rear supporting devices in central section.

40 Figure 3 is an exploded perspective view of the front foot broken away in section, and the foot holding element of the typewriter.

Figure 4 is a perspective view of the rear typewriter holding device illustrating the rear foot in position on the retaining member of the carrying case.

45 Figure 5 is an exploded perspective view of the rear foot and adjacent portion of the typewriter, and

50 Figure 6 is a perspective of the rear foot retaining member of the carrying case.

The numeral 7 indicates a typewriter having at its forward portion a pair of front feet 8, and adjacent its rear portion a pair of rear feet
55 9 restable on a base or carrying case member 10,

the latter having hingedly mounted thereon a cover 11, partly shown.

Each of the typewriter feet 8, 9 comprises an upper or body portion 12 which is of a relatively firm, but preferably resilient material, such as vulcanized solid rubber compound, adapted for attachment to the typewriter. The body portion 12 is preferably of rectangular outline in plan and has its bottom recessed at 13, defining a limited marginal area 14 at the bottom of the body portion. A relatively thin layer of sponge rubber 15 conforming in outline to the bottom area 14 of the body portion is securely attached thereto as by cementing or by joining the body and layer by vulcanization.

In the embodiment illustrated, the typewriter includes a main frame 16, partly shown, which has at its forward portion a pair of horizontal, apertured lugs 19 for support of the pair of front feet 8. Each front foot has formed at the top of its body portion 12 an upstanding shank 20 terminating in a resilient collar 21, the shank 20 being of a size to fit snugly in the aperture of lug 19, the foot 8 being retained thereon by the collar 21 overlying the lug 19, as shown in Figure 2. The shank 20 and collar 21 of the front foot are preferably integral with the body portion 12 and may be formed thereon in the process of molding or vulcanizing the foot. The substantially thick section of the body portion 12 renders same relatively rigid and firm, although constructed of rubber, while the thin section of the collar 21 renders same easily flexed to facilitate
35 assembly. It will thus be seen that the collar 21, by being flexed or gathered upwardly, may be constricted to a diameter approximating that of the shank 20 and may thus be inserted through the aperture of the lug 19. After being so installed, the resilience of the collar 21 causes same to assume its normal shape and thus retains the foot 8 in place on the machine frame.

At the rear portion of the typewriter main frame 16, there is provided a pair of inwardly extending lugs 23 to receive a pair of feet 9, each lug 23 having a threaded hole 24 into which a shoulder screw 25 is engaged, the shank 26 of the screw passing through an aperture 27 in the body portion 12 of the rear foot, with the head of the screw disposed within the recess 13 thereof. Each lug 23 of the frame 16 has an edge
50 formed to provide downwardly extending ears 29 which partly overlie and engage a side wall of each foot 9 and thus secure the foot against rotation on the screw 25. The body portion 12 of each rear foot 9 has adjacent its rear edge
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an upstanding ridge 30 extending above the top surface of the foot to reach beyond the upper surface of lug 23, member 30 being molded or vulcanized integral with the body portion 12 of the foot.

In position on the base member 10 of the carrying case, the typewriter 7 has its rear feet 9 each resting upon a plate 31 shown more clearly in Figure 6, the plate 31 having at a side edge an upstanding flange 32, and at a rear edge an upstanding tongue 33 terminating in a forwardly projecting hook 34, the free end of which is inclined upwardly. The front feet 8 of the typewriter rest on a plate 36 suitably secured as by rivets to the base member 10 of the carrying case, the plate 36 having centrally secured thereto an upstanding stud 37 slidably positioned in an aperture 38 formed in the body portion 12 of each front foot. The lower portion of each stud 8 is enlarged as shown at 39 to provide a broad base for the stud engaging the plate 36, the enlarged stud portion being disposed within the recess 13 of the front foot.

When placing the typewriter into the carrying case, same is held in rearwardly inclined position so that the rear feet 9 partly rest on the forward portions of the plates 31, and the typewriter is urged rearwardly, it being noted that the rear feet 9 are guided in the rearward direction by sliding along the respective flanges 32. The typewriter is pushed rearward in its inclined position until the apertures 38 of the front feet 8 are in registry with the studs 37, whence the front of the typewriter is lowered to its normal position. During this rearward movement of the typewriter, the rear feet 9 slide under the hooks 34, the ridge 30 of each foot engaging the under surface of each hook 34. It may be here noted that this engagement of the ridge 30 against the hook prevents any actual metal-to-metal contact between the typewriter 7 and base 10, in that the ridge 30 extends amply above the top surface of the lug 23 to assure that hook 34 be out of contact with the lug.

Portable typewriters are occasionally used without actual removal from the carrying case, the base 10 of the carrying case being placed on a desk or table and the cover 11 being raised therefrom. In such use, the improvements herein set forth substantially prevent the transmission of operating noises from the typewriter to the base member 10 of the carrying case, by absorbing sound vibrations of the typewriter at its points of support. The body portion 12 of each typewriter foot serves to dampen any sound vibrations of greater intensity carried to the feet, and the layer of sponge rubber 14 of each foot augments the sound dampening effect of the body portion by preventing the transmission of any vibrations to the base, which may have been carried through the body portion 12, this effect being had because of the greater resilience of the sponge rubber layers 14 than that of the body portion 12. It is also to be noted that the resilient contact of the ridge 30 on hook 34 further

obviates any metal-to-metal contact between the typewriter and the base 10, and assures that practically no sound vibrations be transmitted when the typewriter is in use on the base of the carrying case.

When the typewriter is removed from the carrying case and is positioned for use on a desk top or other smooth surfaced platform, my improved typewriter feet are equally effective in view of the capacity of the body portion 12 to absorb vibrations of greater intensity and in view of the capacity of the sponge rubber layers to absorb any sound vibrations of lesser intensity. A further and salient advantage of my improved typewriter feet is had because of the greater frictional contact made by the sponge rubber foot portions on the smooth surfaced supporting member, to thus prevent the typewriter from shifting out of place during operation as a result of the vibrations induced therein.

The improved vibration absorbing typewriter foot herein set forth, comprising the combination of a relatively firm, yet resilient body portion formed of vulcanized rubber, and a layer of highly resilient material, such as sponge rubber, has a further important advantage in providing a substantially firm foundation for the typewriter during operation, in that the typewriter foot, although preventing transmission of sound vibrations, is practically non-yielding and thus obviates the annoyance resulting from any movement of the typewriter bodily during typing, as would be had by use of a foot constructed entirely of a highly resilient material.

What is claimed is:

1. In a sound dampening support for a typewriter on a base, the typewriter having a frame including a horizontally disposed foot-receiving member, a foot of vibration absorbing material attachable to the frame member and adapted to cooperate with typewriter holding means on the base presenting a hook extending over said frame member, said foot comprising a rubber body portion having an upstanding ridge alongside the frame member and reaching above the top surface thereof for resilient engagement with the typewriter holding hook.

2. In a sound dampening support for a typewriter on a base, the typewriter having a frame including laterally extending horizontal foot-receiving members, in combination, a generally rectangular foot of vibration absorbing material detachably secured to the frame member, said frame member having downwardly directed ears overlying said foot and preventing rotation thereof, said foot being adapted to cooperate with typewriter holding means on the base presenting a hook extending forwardly over said frame member, said foot having an upstanding ridge along the back edge of said frame member and reaching above the top surface thereof for resilient engagement with the typewriter holding hook.

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