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SUPPORTING FOOT FOR ADDING MACHINES

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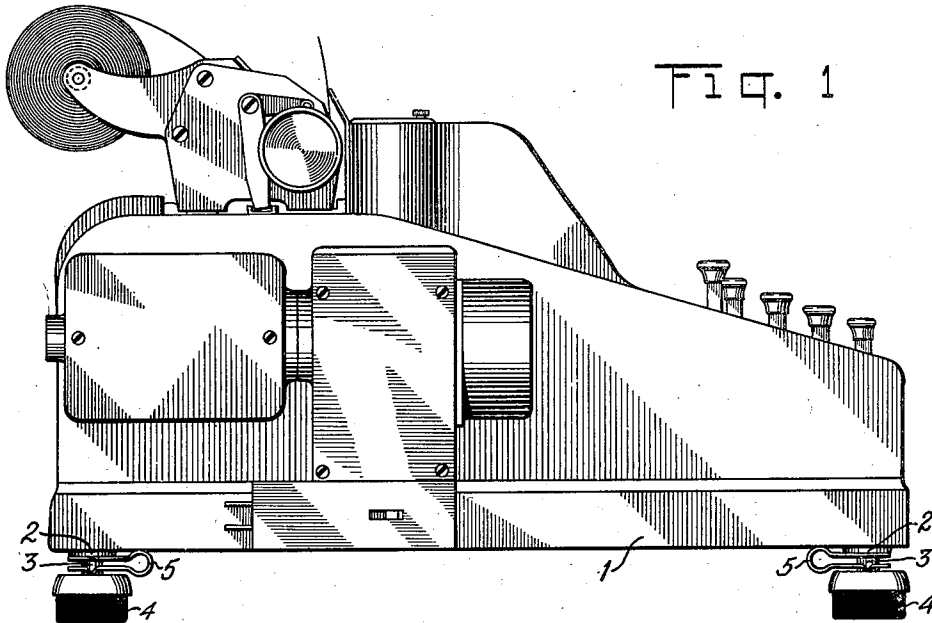


Fig. 1

Fig. 2

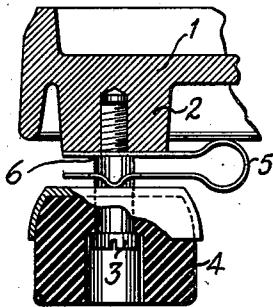


Fig. 3

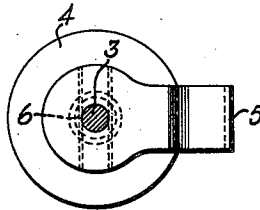


Fig. 5

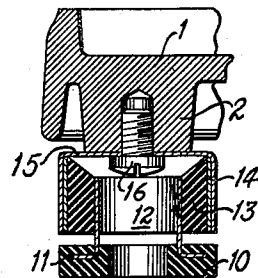


Fig. 4

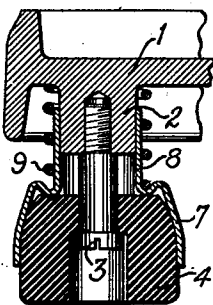


Fig. 7

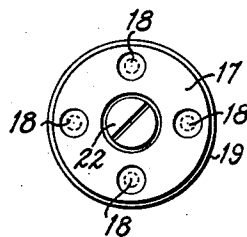
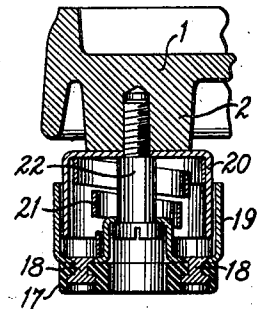


Fig. 6



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# UNITED STATES PATENT OFFICE

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## SUPPORTING FOOT FOR ADDING MACHINES

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4 Claims. (Cl. 248—24)

This invention relates to adding machines, and more particularly to the supporting feet thereof.

Adding machines of the portable type are generally provided with four legs having fairly rigid but slightly resilient rubber inserts thereon, the purpose of which are to lessen the noise incident to operation of the machine. This noise is amplified to a considerable degree when the adding machine is supported on a desk or cabinet, the supporting structure acting as a sound board. It is accordingly an object of the present invention to provide, for the machine, a more pliant and yielding mounting, having resiliency superior to the rubber feet now being used, whereby shocks caused by the abrupt starting and stopping of the machine and the other noises incident to its operation may be readily absorbed.

Another object of the invention is to provide a device of this character which is comprised of few parts, adapted to be easily assembled and inexpensive to manufacture.

With these objects in view, the invention consists in certain novel features of construction and combinations of parts, the essential elements of which are set forth in appended claims, and several embodiments of which are hereinafter described with reference to the accompanying drawing which form a part of the specification.

In the drawing:

Figure 1 is a side elevation of an adding machine with the preferred form of the improved mounting secured thereon,

Figure 2 is a detail sectional view of this preferred form,

Figure 3 is a top plan view thereof,

Figure 4 is a detail sectional view of a modified form of the invention,

Figure 5 is a similar view of another modified form of the invention,

Figure 6 is a sectional view of still another modified form of the invention, and

Figure 7 is a bottom plan view of Figure 6.

The reference numeral 1 indicates the base of the adding machine, the four corners of which are provided with downwardly projecting bosses 2. Each of the bosses 2 are threaded to receive shouldered screws 3. The screws 3 (Figures 2 and 3) pass upwardly through openings in metal capped rubber feet 4. These openings are large enough to permit relative sliding movement between the screws and feet. A flat spring 5 of substantially U-shaped contour is interposed between the foot 4 and the base 1 and is held securely by virtue of a shoulder 6 on screw 3 engaging the upper blade of the spring, the aper-

ture in the upper blade fitting neatly around the threaded portion of the screw. The diameter of the aperture in the lower blade of spring 3, through which the shouldered portion of the screw 3 extends, is large enough to allow relative vertical movement between the lower blade and the screw. During the machine operations, springs 5 coupled with the rubber feet 4 serve to dampen the vibrations created by operation of the machine.

In the modified form illustrated in Figure 4 the rubber foot 4 is encased in a drawn metal shell 7 having an upwardly extending sleeve 8 slidably embracing the boss 2. A coiled compressible spring 9 encircling the sleeve 8 extends between the bottom of the base 1 and an annular groove provided in the shell 7 adjacent the sleeve 8. A shouldered screw 3 retains these parts in their assembled relation.

Figure 5 shows a modified form comprising a rubber foot 10 moulded on or otherwise suitably secured to a flange 11 of a cylindrical metal sleeve 12. A rubber sleeve 13, preferably of high resilient qualities is moulded around the metal sleeve 12 and in turn to another metal sleeve 14, which encircles said rubber sleeve. The sleeve 14 is of such diameter as to fit snugly within an inverted metal cup 15 rigidly secured to the boss 2 by a screw 16. In this form of the device the rubber sleeve 13 serves the purpose of the spring 5 in the preferred embodiment, sleeve 13 yieldingly absorbing the shock.

The fourth modification, shown in Figures 6 and 7, comprises a circular rubber foot 17 having suitable spaced openings adapted to embrace headed studs 18 riveted in the bottom of a drawn metal shell 19. The shell 19 is slidably mounted over an inverted metal cup 20. A flat spirally coiled spring 21 is positioned between the cup 20 and shell 19. A shouldered screw 22 rigidly secures the assembled parts to the boss 2 of the base 1.

While the forms of the device herein shown and described are admirably adapted to fulfill the object primarily stated, it is to be understood that it is not intended to confine the invention to the forms of embodiment herein disclosed other than by the appending claims.

What is claimed is:

1. In a machine of the class described, a supporting base, a supporting structure therefor including a resilient foot having an aperture therein, an apertured metal cap thereon, a shouldered screw extending loosely through the foot and cap, a substantially U-shaped spring interposed between the metal cap and the supporting base,

apertures near both ends of the U-shaped spring, the aperture of the upper portion being of a diameter to fit neatly over the threaded portion of the screw and the aperture of the lower portion being of a diameter to permit clearance between the shouldered portion of the screw and the lower portion of the spring, said screw extending loosely through the apertures of the spring and being secured to the supporting base.

2. In a machine of the class described, a supporting base, a supporting structure therefor including a resilient foot having an aperture therein, an apertured metal cap thereon, a substantially U-shaped spring interposed between the metal cap and the supporting base and bearing freely on the cap, and a member extending loosely through the foot, cap and spring, and being secured to the supporting base.

3. In a machine of the class described, a supporting base, a supporting structure therefor including a resilient foot having a shouldered aperture therein, an apertured metal cap thereon, a

substantially U-shaped spring interposed between the metal cap and the supporting base, and a headed member extending loosely through the foot, cap and spring, and being secured to the supporting base, the head of the member lying adjacent the shoulder of the aperture in the foot to hold the parts in assembled relation when the machine is lifted.

4. In a machine of the class described, a supporting base, a supporting structure therefor including a resilient foot having an aperture therein, an apertured metal cap thereon, a substantially U-shaped spring having an aperture and a boss near one end and being interposed between the metal cap and the supporting base, the boss lying against the metal cap and being of sufficient size to prevent contact of the cap with other parts of the spring, and a member extending loosely through the foot, cap and spring, and being secured to the supporting base.

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