June 1, 1926.

1,587,484

J. B. HOLDEN

TYPEWRITING MACHINE

Filed May 14, 1921

2 Sheets-Sheet 1

Fig. 1

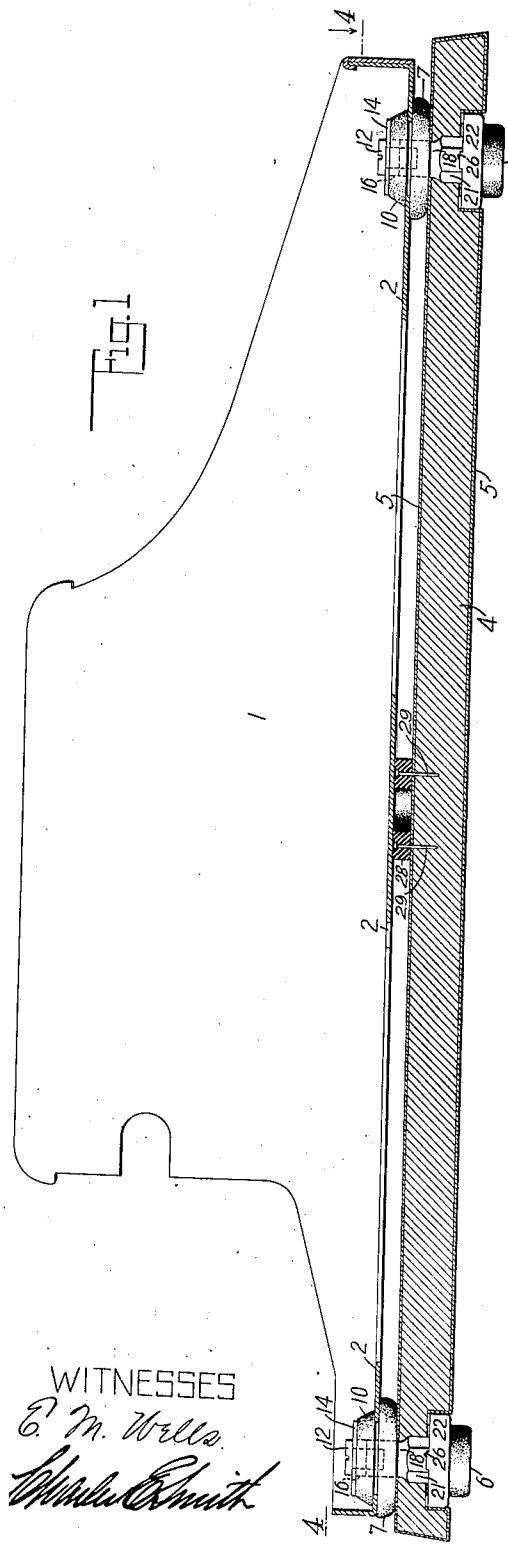


Fig. 3

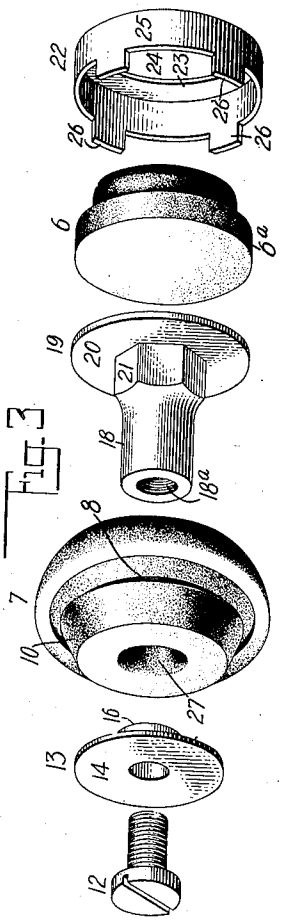
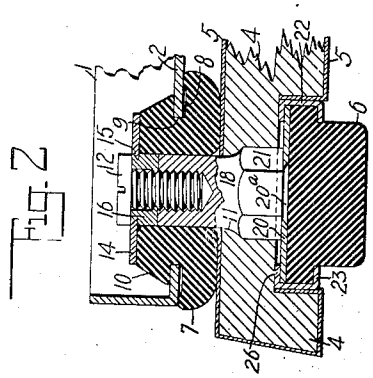


Fig. 2



WITNESSES

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TYPEWRITING MACHINE

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2 Sheets-Sheet 2

Fig. 5

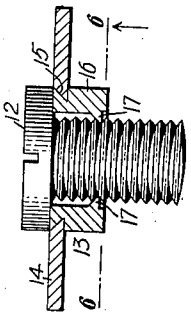


Fig. 6

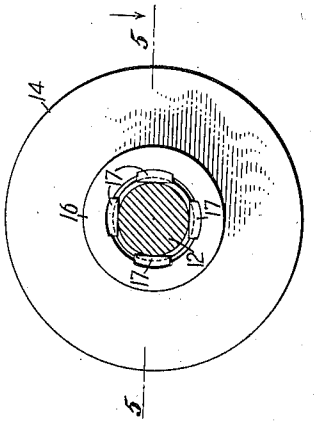
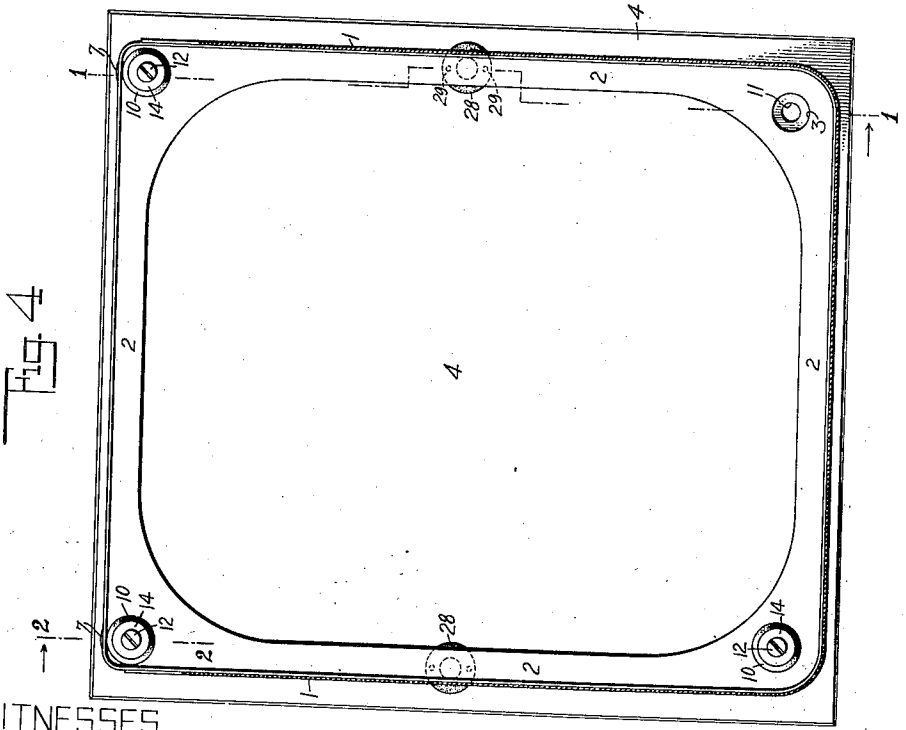


Fig. 4



WITNESSES

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Patented June 1, 1926. 1,587,484

UNITED STATES PATENT OFFICE.

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TYPEWRITING MACHINE.

Application filed May 14, 1921. Serial No. 469,458.

My invention relates to typewriting machines, and more particularly to cushioning means therefor, and for its baseboard, and to means for connecting the typewriter to the baseboard.

The main object of my invention, generally stated, is to provide simple and efficient means of the character specified.

To the above and other ends which will hereinafter appear my invention consists in the features of construction, arrangements of parts and combinations of devices set forth in the following description and particularly pointed out in the appended claims.

In the accompanying drawings wherein like reference characters indicate corresponding parts in the different views,

Fig. 1 is a fore and aft vertical sectional view of a typewriting machine shown equipped with the devices of my invention and secured in place thereby on the baseboard of the machine, the section being taken on the line 1—1 of Fig. 4 and looking in the direction of the arrow at said line.

Fig. 2 is an enlarged detail fragmentary vertical sectional view of a portion of the same, the section being taken on the line 2—2 of Fig. 4 and looking in the direction of the arrow at said line.

Fig. 3 shows detached and in perspective the foot members and connecting parts disclosed in Fig. 2; the parts shown in Figs. 2 and 3 being drawn on the safe enlarged scale.

Fig. 4 is a detail transverse sectional view of the parts represented in Fig. 1, the section being taken on the line 4—4 of Fig. 1 and looking in the direction of the arrow at said line.

Fig. 5 is an enlarged detail transverse sectional view of parts of the connecting means, the section being taken on the line 5—5 of Fig. 6.

Fig. 6 is a sectional view of the same, taken on the line 6—6 of Fig. 5 and looking in the direction of the arrow at said line.

In the present instance I have shown my invention applied to a Remington portable typewriting machine, only so much of said machine being shown as may be necessary to arrive at an understanding of my invention. It should be understood, however, that the invention is not restricted in its application to such machines but may be employed in typewriting and like machines generally wherever found available.

The main supporting sheet metal frame of the Remington portable machine is indicated as a whole by the reference numeral 1, and comprises an inwardly projecting horizontally disposed flange or web portion 2 at the base thereof. I prefer to form a hole 3 in this web (see Fig. 4) at each corner of the frame to aid in detachably securing the cushion feet to the machine, and to aid in securing the machine to a baseboard 4. In the present instance this baseboard is preferably a part or the bottom of a carrying case, the cover of which (not shown) encloses the machine and is detachably secured to said baseboard. The baseboard may have its entire surface covered, as indicated at 5, with a suitable material, such as imitation leather, to match the detachable cover. I prefer to have the machine, whether in use or enclosed in its carrying case, remain connected with the baseboard 4. Therefore, I have provided cushion feet 6 beneath the baseboard, and by which the latter with the machine secured thereto, may be supported on a desk or table without marring the surface of either the desk or the baseboard, at the same time absorbing the vibrations that might otherwise be transmitted from the operated machine to the baseboard and to the desk on which it is supported, and therefore reduce the noise accordingly. The transmision of vibrations from the machine to its support is further prevented by reason of the provision of cushioning means or feet between the base-frame of the machine and the baseboard, as will hereinafter clearly appear.

An annular cushion or foot-piece 7 of soft rubber or like material is formed or provided about midway (as shown) with a circular groove 8, the width of which corresponds substantially to the thickness of the web or flange 2 of the machine, and the bottom wall or base 9 of the groove conforms substantially to the diameter of the opening 3 in the web.

The lower half or portion of the cushion 7 is larger in diameter than the upper half or portion, and the latter is beveled circumferentially at 10 to enable it to be pressed with facility through the hole 3 in the flange 2 from the under side thereof. It

will be noted that the topmost part of the beveled portion 10 is about equal in diameter or slightly less than the diameter of the opening 3, while the lowermost or base part of said upper portion is considerably larger in diameter than said opening. Hence in inserting the cushion 7 the beveled or tapered portion 10 is compressed until the grooved portion 8 registers with the wall of the opening 3, whereupon the portion 10 expands and overlies and rests upon the top surface of the base 2 immediately surrounding the opening 3. At this time the upper surface of the bottom portion or enlarged half of the cushion bears against the under side of the web or flange 2. When the cushion has thus been connected to the web or flange its bottommost portion rests upon the baseboard 4 or its covering 5, all as clearly shown in Figs. 1 and 2.

From an inspection of Fig. 4, it will be seen that the cushion 7 has been removed from the frame at the lower right-hand corner thereof. At this point it will be seen the baseboard beneath is perforated as indicated at 11 below and in line with the opening 3. Corresponding openings 11 are formed in the baseboard below and in line with the other three openings 3 in the frame. The lower end of each opening 11 in the baseboard is enlarged and countersunk to form a pocket to receive a foot 6, and part of the means by which the latter is connected to the baseboard and to the machine.

The means by which each foot 6 is secured to the machine and to the baseboard, and by which the machine is also secured to the baseboard are as follows: Referring more particularly to Figs. 5 and 6, it will be seen that a headed screw 12 is received in a part designated as a whole by the reference numeral 13, and which comprises a washer or disk 14 riveted or secured at 15 to a cylindrical hub 16. The lower end of the hub, at the wall of the bore therein, is stamped or formed at four points to produce four inwardly extending spurs 17 that engage the threads on the screw 12, so as to provide a threaded connection between the screw 12 and member 13. Where the lower end of the screw 12 projects below the hub 16 it coacts with internal threads 18^a in the hollow stem or socket 18 of a connecting member, designated as a whole by the reference numeral 19. This connecting member has a flange, head or enlargement 20 at its lower end which may be in the nature of a disk riveted at 20^a to an end of the stem. A part of the stem 18 is formed with an enlarged angular portion 21, being in the present instance hexagonal in cross section. Each foot 6 has an upper enlarged portion 6^a fitted in a sheet metal cap or holder 22 having an inwardly extending supporting flange 23 and a central opening 24 through which the lower contracted end portion of the foot 6 extends. From the upper edge portion of the encircling rim 25 of the holder 22 projects a number of bendable lugs 26, four being shown in the present instance.

In assembling and connecting the parts, each foot 6 is placed within its holder 22 and the head 20 of the connecting member 19 is then seated on top of the foot. The lugs 26 are then bent down over the back of the head 20 to rigidly connect the holder 22, and the foot 6 contained therein, to the member 19. The latter may then be introduced upwardly into its opening 11 in the baseboard, and as the stem 18—21 is forced or driven home in the opening the angular projections of the hexagonal portion 21 embed themselves in the wooden wall of the opening 11 and prevent the member 19 from turning in the opening. The upper end of the stem 18, which projects above the baseboard, extends through a central opening 27 in the cushion 7 attached to the frame of the machine. The member 12—13 may then be introduced into position from above, with the hub 16 seated in the opening 27 in the cushion 7 and with the flange 14 bearing on the top of the cushion. The screw 12 is threaded into position in the threaded stem of the member 19, thus securely connecting the foot 6 to the baseboard and to the machine, and securely connecting the machine to the baseboard.

It will be seen that each cushion 7 aside from forming a foot for supporting the machine on the baseboard, also provides an intervening cushion between the machine and the connecting means by which it is attached to the baseboard, and also between the machine and the means by which the associated foot 6 is attached to the machine. Therefore, not only are very simple and effective means provided for detachably securing the parts together in such a manner that they cannot become accidentally separated, but effective means are provided for absorbing the vibrations of the machine in action and for preventing vibrations from being transmitted to the desk or support on which the baseboard rests, thus reducing noise while protecting the baseboard as well as the desk or support on which it rests, from being marred or injured.

In addition to the means hereinbefore described for supporting the machine on the baseboard, I prefer to employ two cushions 28, one interposed between the web 2 of the machine frame and the baseboard at each side and about midway of the length of the machine. Each of these cushions may be a soft rubber washer secured by brads 29, or otherwise, to the baseboard.

For convenience of manufacture I prefer to make the connecting means as hereinbe-

fore described, but from certain aspects of my invention the members 12 and 13 may be regarded as one part of a two-part connection, the other part of which is the member 19. The two parts of said connecting means are united by a threaded connection, and one part thereof 19 carries a foot 6 detachably connected thereto by means 26 independent of the threaded connection which unites the two parts and secures the connecting means to the frame of the machine.

Various changes may be made without departing from the scope of my invention and certain features thereof may be employed without others.

What I claim as new and desire to secure by Letters Patent, is,

1. A baseboard, a perforated cushion between said baseboard and a typewriting machine, part of which cushion extends below the base of the machine and part of which extends above the same, a cushion or foot projecting below the baseboard and having a flange within a recess in said baseboard, a cup or ring within which said flange is seated, a socket passing upwardly through the baseboard and through the perforated cushion, said socket having at its lower end a flange which bears on said foot-piece, ears or lugs on said cup or ring bent over upon said flange, a perforated disk or washer seated upon the top of said typewriting machine cushion, and a screw engaging internal threads in said socket.

2. The combination of a detachable two-part connecting member the parts of which are detachably connected together by a threaded connection and when so connected are adapted to detachably secure the two-part member to a typewriting or like machine, a cushion foot, and means independent of said threaded connection for detachably securing said foot to one part of said connecting member and thus connecting the foot to the machine.

3. The combination of a detachable two-part metallic connecting member the parts of which are detachably but firmly and positively fastened together and when so fastened detachably but positively secure the two-part member to a typewriting or like machine, a supporting cushion interposed between said connecting member and the machine, and a cushion foot separate and distinct from said first mentioned cushion and carried wholly by and fixedly secured to one of the parts of said connecting member.

4. The combination of a detachable two-part metallic connecting member the parts of which are detachably but firmly and positively fastened together and when so fastened detachably but positively secure the two-part member to a typewriting or like machine, a supporting cushion interposed between said connecting member and the machine, a cushion foot, and means independent of those which connect the two parts of said member together for fixedly attaching said foot to or detaching it from one of the parts of said member.

5. The combination of a detachable two-part connecting member the parts of which are detachably connected together by a threaded connection and when so connected are adapted to detachably but positively secure the two-part member to a typewriting or like machine, a cushion interposed between said connecting member and the machine, a head on one part of said connecting member, a cushion foot which bears against said head, a perforated cap in which the foot is received and through which it extends, and means for securing said cap to said head.

6. The combination of a detachable two-part connecting member by which the supporting means are detachably but positively fastened to the frame of a typewriting or like machine and each part of which connecting member is provided with an enlargement or head, means for detachably but positively connecting the two parts of said member together and thereby positively connecting the member to the frame of the machine, a cushion interposed between one of said heads and the frame of the machine, and a cushion foot positively connected to the other head and independently detachable therefrom.

7. The combination of a detachable two-part connecting member detachably but positively connected to the frame of a typewriting or like machine and each part of which is provided with an enlargement or head, means for detachably but positively connecting the two parts of said member together and thereby positively connecting the member to the frame of the machine, a cushion interposed between one of said heads and the frame of the machine, a baseboard to which the machine is positively secured by said connecting member, a cushion interposed between the machine and said baseboard, a cushion foot beneath the baseboard and on which the latter rests, and means for positively connecting said cushion foot to the other head of said connecting member.

8. The combination of a detachable two-part connecting member detachably but positively connected to the frame of a typewriting or like machine and each part of which is provided with an enlargement or head, means for detachably but positively connecting the two parts of said member together and thereby positively connecting the member to the frame of the machine, a cushion interposed between one of said heads and the frame of the machine, and a baseboard having an opening therein through

which said connecting member extends to positively connect the baseboard to the machine.

9. The combination with a typewriter or like machine, of an apertured baseboard which closes the bottom of the machine and protects it and on which the machine is supported, a cushion foot beneath the baseboard and by which the latter is supported, a two-part connecting member which extends through an aperture in the baseboard and one of the parts of which carries said foot, and means for detachably but positively connecting the parts of said two-part connecting member together to positively secure the foot to the baseboard and machine and positively secure the machine to the baseboard.

10. The combination with a typewriting or like machine having cushion feet, of a baseboard which closes the bottom of the machine and protects it and on which said cushion feet rest, cushion feet beneath the baseboard and by which it is supported, and a plurality of two-part detachably connected connecting devices one two-part connecting device for each foot on the machine and by which the machine is detachably but positively connected to the baseboard, one part of each connecting device having a foot for the baseboard positively secured thereto.

11. The combination with a portable typewriting or like machine having cushion feet, of a baseboard apertured at the points where the feet of the machine rest on the board, said baseboard constituting the bottom of a carrying case and closing the bottom of the machine and protecting it, two-part detachably connected connecting devices one device for each foot on the machine and which extend through said apertures and by means of which the machine is positively secured to the baseboard, and a cushion foot carried by and positively secured to one part of each of said devices and extending therefrom beneath the baseboard and on which the latter may be supported.

12. A typewriting or like machine having an opening in a horizontally disposed web portion of its frame, an annular soft rubber foot piece with a groove around the outer side thereof that corresponds substantially in width to the thickness of said web, the bottom wall of the groove conforming substantially to the wall of said opening in the web and the top and bottom walls of the groove overlapping the web when the foot piece is sprung into place, thereby connecting the foot piece to the machine, a baseboard having an opening therethrough, and a connecting member that extends through said opening in the baseboard and through the annular foot piece, said member comprising two parts united by a threaded connection, one part of the member having an enlargement that bears against the foot piece above said web and the other part of the member having an enlargement that bears from beneath against the baseboard thus firmly but detachably connecting the machine to the baseboard with the foot piece resting thereon.

13. The combination of a cushion attached to a typewriter, a clamping plate on top of said cushion, a clamping plate in a recess in a baseboard, a baseboard cushion connected to the last mentioned clamping plate, a socket carrying said last mentioned clamping plate and passing up through the baseboard and into the typewriter cushion, and means for forcing said clamping plates towards each other.

14. A fastening and cushioning means comprising two independent and separate cushions, an intermediate threaded socket having a flange, a ring for holding one of the cushions on said flange, the other cushion having a perforation for said socket, a second flange to bear on the last mentioned cushion, and a screw for engaging the threads of said socket.

Signed at Syracuse, in the county of Onondaga and State of New York, this 12 day of May, A. D. 1921.

JOSEPH B. HOLDEN.