Feb. 28, 1928. 1,660,648

E. B. LINSTROM

TYPEWRITER ATTACHING DEVICE

Filed June 7, 1926

Fig. 1

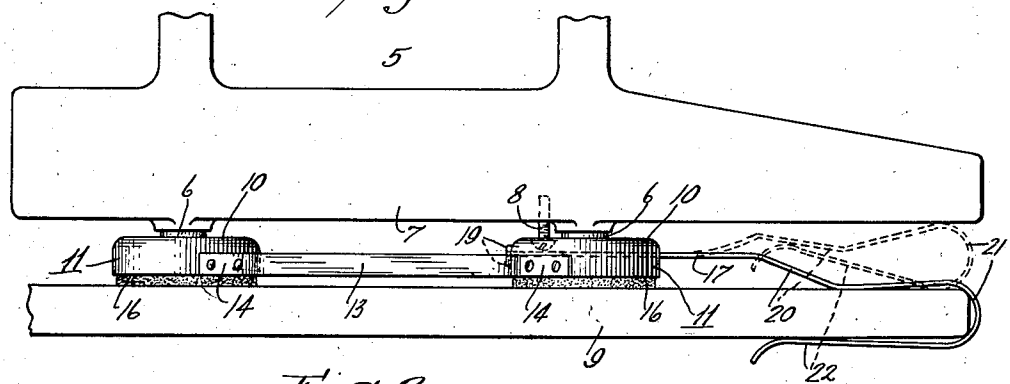


Fig. 2

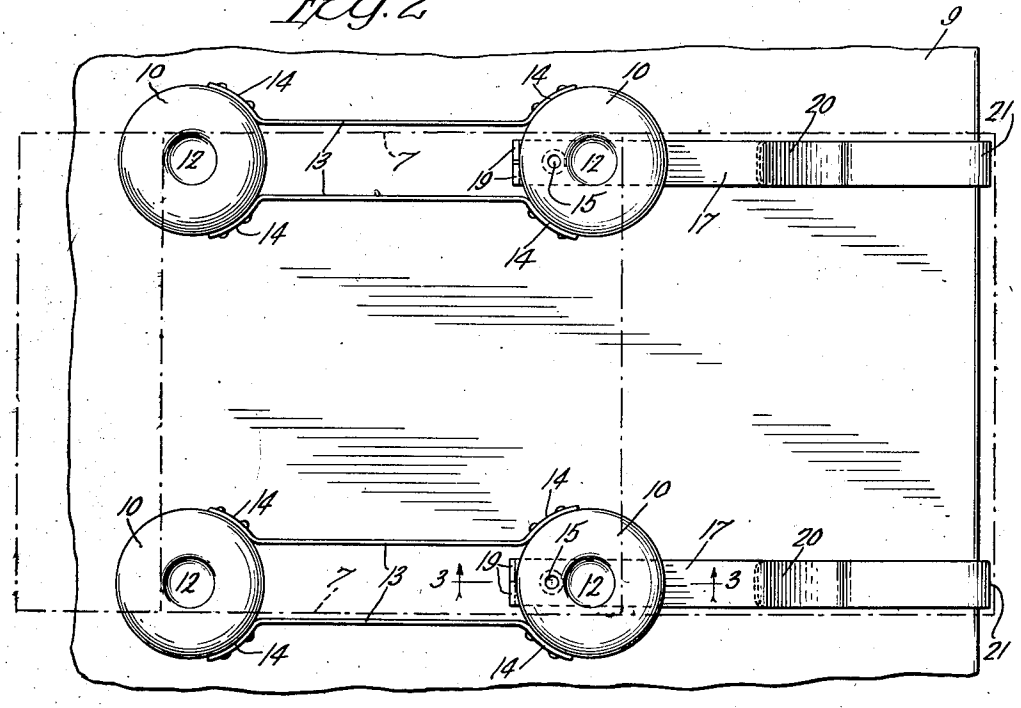
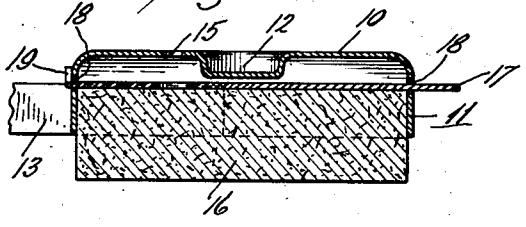


Fig. 3



Inventor:
Eric B. Linstrom
E. B. Linstrom
Atty.

Patented Feb. 28, 1928. 1,660,648

UNITED STATES PATENT OFFICE.

ERIC B. LINSTROM, OF LOMBARD, ILLINOIS, ASSIGNOR OF ONE-HALF TO WALTER C. MAYLAND, OF CHICAGO, ILLINOIS.

TYPEWRITER-ATTACHING DEVICE.

Application filed June 7, 1926. Serial No. 114,289.

My present invention relates to means for attaching a typewriting machine to a desk, table and the like, to prevent the machine from slipping or accidentally shifting or moving out of position while in use, at the same time permitting the machine to be adjusted to positions convenient for the operator. The attaching structure, while performing the foregoing functions, will also dependably hold the machine in position upon the shelf of a drop-leaf desk when the desk is closed, and it will also cushion the typewriting machine so as to absorb a considerable percentage of the audible vibrations inherent in the operation of the machine thereby deadening the noise incident to such operation.

One of the objects of this invention is the provision of a structure of this character that will maintain the machine in position when the shelf of the drop-leaf is lowered for closing the same, and will permit the ready movement of the machine to divers positions without the necessity of having to release catches, bolts, etc., which are prevalent in similar structures now on the market. The means which I have provided for attaching the machine will permit the typewriter to be readily removed from the shelf which normally supports the same and be placed upon another desk or table, and this may also be done without the necessity of having to remove or release bolts or catches. I have also had in mind in designing this attaching device to provide a structure that is simple and durable in construction, dependable in operation, easy to manipulate, and the device is economical to manufacture so that it may be sold to the user at a reasonable and moderate price.

I prefer to carry out my invention and accomplish the divers objects thereof in substantially the manner hereinafter fully described, and as more particularly pointed out in the claims, reference being made to the accompanying drawings that form a part of this specification.

In the drawings:—

Figure 1, is a longitudinal side elevation showing my invention in use.

Figure 2, is a top plan of the attaching means.

Figure 3, is a vertical longitudinal section of one of the foot-receiving and cushioning elements and drawn to a larger scale than the other views.

The drawing is in a sense merely schematic, and illustrates a typical or preferred embodiment of my invention and in said drawing the same reference characters have been employed to designate like parts wherever they appear throughout the several views.

The drawings show the lower portion of the frame 5 of a well-known typewriting machine that is provided with the usual feet 6 whereby the machine is suitably supported upon a table, desk, or the like. There are usually four of these feet that project down from the longitudinal side pieces 7 at the bottom of the frame, and at a point adjacent the forward posts of the frame and slightly back of the forward feet the side-pieces are bored vertically up from their bottom edges and threaded to receive suitable bolts 8. When the typewriting machine is to be secured to a desk these bolts are passed through the shelf or top plate 9 of the supporting structure and screwed into the bores above described so that the machine is permanently secured to the shelf and will be maintained in its position when the shelf is dropped to close the desk. While such an arrangement is of a dependable character it does not permit the lifting of the machine off the shelf 9 without the removal of the bolts 8 and this is frequently quite inconvenient for the operator because of the inaccessibiltiy of the head of the bolt. In the structure I have designed I utilize the bores in the side-pieces and the bolts to secure to the feet 6 of the machine two pairs of attaching and cushioning elements that have readily removable means for permitting of the disassembly of the structure from the shelf of the desk.

The structure which I have designed comprises two holders that are mounted upon opposite sides of the machine and are each provided with a spring hook that engages the adjacent edge of the shelf 9. As the holders are identical in construction and are sold in pairs, a single holder will be described for the purpose of convenience and to avoid confusion in terminology. A holder consists of a pair of inverted cups each consisting of a flat plate portion or top 10 with a depending rim or flange 11 and centrally of the plate 10 is a depression or recess 12

of such dimension as to receive a foot 6 of the typewriting machine. A pair of these cup-shaped elements are connected together in any suitable manner, preferably by means of two parallel spaced bars or rods 13, the ends of the rods or bars being bent segmental shape as at 14, to conform with the shape of and to be secured to the depending flanges 11 of the cup-shaped members, thus maintaining said members in spaced relation to each other a distance far enough apart to permit the feet 6 on one side of the machine to rest in the respective depressions or recesses 12. It will be understood that other means besides the rods or bars 13 may be employed in lieu thereof, but I prefer the structure hereintofore described. The cup-shaped member adjacent the forward portion of the machine is provided with an aperture 15 through which the shank of the bolt 8 is passed with the head within the cup to secure the holder to one side of the typewriting machine as seen in Fig. 1. In order to provide a cushion for the feet and thereby prevent the noise of the machine vibrating upon the shelf of the desk I provide cushion pads 16 that are preferably made from felt, wool, rubber, or any other suitable shock absorbing and sound deadening material, and said pads are preferably of such dimensions that they are readily maintained in assembly with the plate portion or top 10 by their frictional engagement with the inner surfaces of the depending flanges 11.

The means for removably mounting and maintaining the structure in cooperation with the shelf of the desk consists, as heretofore suggested, a spring hook that is engaged with the adjacent front edge of the shelf. This hook element comprises a length of spring metal in band or ribbon form, the straight end portion 17 of which passes diametrically through the front cup-shape element of the holder by providing horizontal slots 18 in opposite portions of the depending flanges 11 and the end portion of the strip is slit and provided with up-turned and down-turned flanges 19 upon each side of the slit that act as stops and prevent the forward withdrawal of the hook element. In front of the cup-shaped member the band or metal strip is provided with an oblique portion 20 that extends down into contact with the shelf 9. Beyond the oblique portion the metal is given a reverse bend as at 21 to provide a loop of sufficient dimension to permit the same to engage the edge of the shelf 9, while the portion back of the bend 20 and below the oblique portion of the hook, designated by the numeral 22 presses upwardly towards the oblique portion 20 against the under surface of the shelf of the desk, all as shown in Fig. 1 of the drawing.

When a pair of the above described holders have been secured to opposite sides of the typewriting machine and the assembled structure placed upon the shelf of the desk the end portion 22 of the hook, which due to its stringy character presses towards the opposite portion of the hook, may be pulled downward to open the bend and permit the assembled structure to be slid rearwards on the shelf 9 until the bends 21 engage the edge of the shelf. The shelf may now be lowered and the desk closed in the usual manner and the typewriting machine will hang from the edge of the shelf by means of the hooks. When the desk is opened the operator may readily pull the typewriting machine towards the edge of the shelf if desired or may turn the same diagonally for convenience in writing. Should it be desired or necessary to remove the typewriter from the shelf 9, this may readily be done by pulling the machine towards the edge of the shelf until the spring hooks have become disengaged from said edge and the typewriting machine may then be placed upon another desk or table for use at another location and the hooks may or may not be engaged with this other desk. When the typewriting machine is placed upon another desk or table the spring hooks, due to the weight of the machine bend slightly upwardly in the manner shown in the dotted lines in Fig. 1 and will not interfere with the free placement of the machine in any desired position.

What I claim is:—

1. A typewriter attaching device comprising a pair of spaced inverted cups adapted to receive the feet of the machine, cushioning pads inserted in said cups and resting upon the support upon which the machine is mounted, and securing means comprising an elongated piece of material one end of which is connected with the adjacent cup and the opposite end of which extends to and around the adjacent edge of the support for the machine, said means being unsecured to the support to permit change of position of the machine.

2. A typewriter attaching device comprising a pair of spaced inverted cups adapted to receive the feet of the machine, means connecting and maintaining said cups in spaced relation to each other, means securing one of said cups to the frame of the machine, resilient pads disposed in said cups and resting upon the support upon which the machine is mounted, and an elongated strip of spring metal one end of which is connected to the cup that is secured to the machine frame and the opposite end of which extends to and around the adjacent edge of the support, whereby to hold said machine when the support is tilted, said means being unsecured to the support to permit change of position of the machine.

3. Means for maintaining a typewriting

machine upon the tiltable shelf of a drop-leaf desk comprising a plurality of members engaged with the feet of the machine, and hangers each consisting of an elongated body one end of which is connected to the foot engaging member on one side of the machine and the opposite end of which is bent in hook-shape whereby to engage the front edge of the shelf, said hangers being unsecured to the shelf to permit change of position of the machine.

4. Means for maintaining a typewriting machine upon the tiltable shelf of a drop-leaf desk comprising a plurality of members engaged with the feet of the machine, and hangers each consisting of an elongated body one end of which has sliding connection with the foot engaging member on one side of the machine and the opposite end of which is bent in hook-shape whereby to engage the front edge of the shelf and permit the machine to be moved towards or away from said edge without disengaging the hooks from the shelf.

5. Means for maintaining a typewriting machine upon the tiltable shelf of a drop-leaf desk comprising a pair of elongated holders secured longitudinally to the sides of the machine and provided with cushioning pads below the respective feet of the machine, and a pair of hooks connected to said holders and having their bent portions engaged with the front edge of the shelf whereby to limit the rearward movement of the machine, said hooks being unsecured to the shelf to permit change of position of the machine.

6. Means for maintaining a typewriting machine upon the tiltable shelf of a drop-leaf desk comprising a pair of elongated holders secured longitudinally to the sides of the machine, cushioning pads below the respective feet of the machine and supporting the same above the shelf, and a pair of hooks slidably connected to the front portions of said holders and having their bent portions removably engaged with the front edge of the shelf whereby to limit the rearward movement of the machine and permit the ready removal of the machine forwardly from the shelf.

7. A typewriter attaching device comprising means connected to the side members of the machine and engaged with the feet thereof, and hook-shaped devices connected with said means and removably engaged with the front edge of the support upon which the machine is placed, said hook-shaped devices being unsecured to the support to permit change of position of the machine.

Signed at Chicago, in the county of Cook, and State of Illinois, this 19th day of May, 1926.

ERIC B. LINSTROM.