E. SHERWOOD.

CUSHIONING SUPPORT FOR TYPE WRITING MACHINES.

APPLICATION FILED JAN. 27, 1915.

1,166,487. Patented Jan. 4, 1916.

Fig. 1.

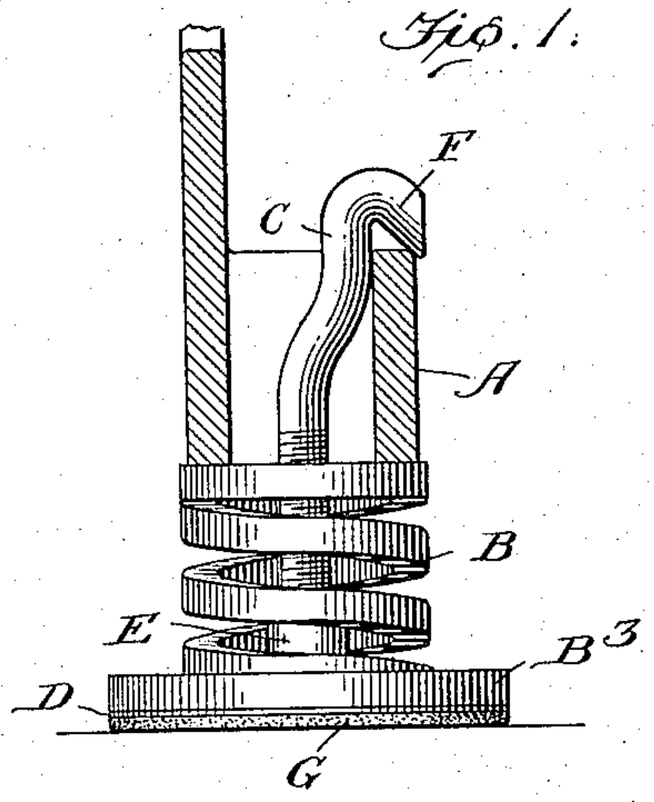


Fig. 3.

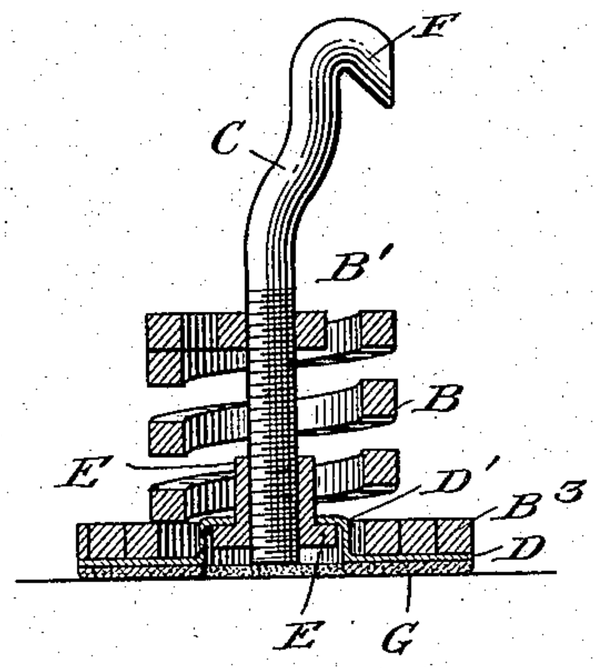


Fig. 2.

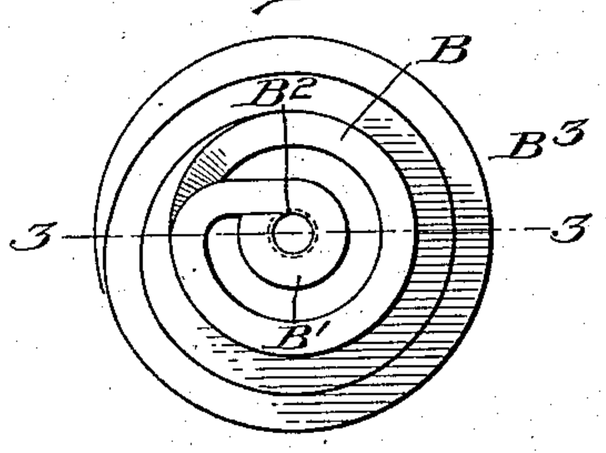


Fig. 4.

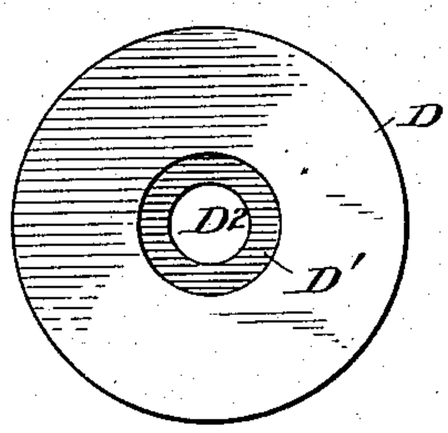


Fig. 5.

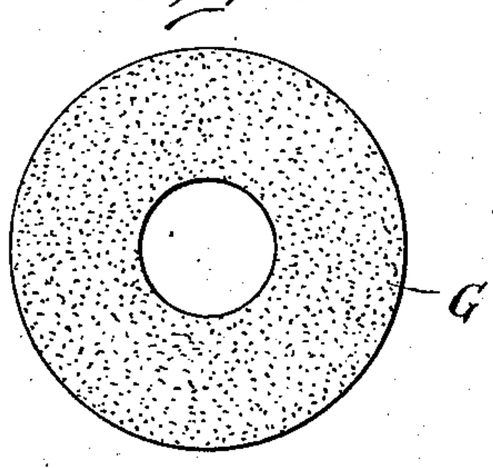
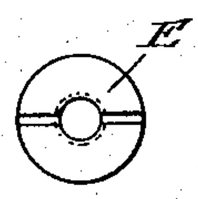


Fig. 6.



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CUSHIONING-SUPPORT FOR TYPE-WRITING MACHINES.

1,166,487. Specification of Letters Patent. Patented Jan. 4, 1916.

Application filed January 27, 1915. Serial No. 4,683.

To all whom it may concern:

Be it known that I, EMMA SHERWOOD, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Cushioning-Supports for Type-Writing Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to cushioning supports which are readily attached to the machines to be supported, are adjustable in resiliency, unaffected by long use, and adapted to be detachably secured to the table or other support upon which the machine is placed.

In the accompanying drawings, Figure 1 is a side elevation of the novel support, or foot, in place upon a machine frame a small portion of which is shown in section. Fig. 2 is a plan view of a spring coil forming the body of the foot. Fig. 3 is an axial section of the foot. Figs. 4, 5, 6 are plan views of constituent parts of the structure.

In these figures, A represents a portion of the frame of an ordinary typewriter, B a spring coil, and C a hooked bolt by which the coil is detachably secured to the frame. The spring B consists of a preferably rectangular bar formed into a preferably helical coil body having the bar carried inward in the plane of its upper end and forming an internally threaded eye B′ in the axis of the body B, and at the lower end of the body carried outward and coiled into a plane spiral B^3 which surrounds the body portion as a plane flange of approximately uniform width, and the constituent bar of said spiral may be gradually diminished, near its end, in horizontal width, as shown, so that the peripheral face of the spiral may present no material offset. Upon the lower face of the coil thus formed is a metal plate D having its central portion extending upwardly into the coils as an inverted cup D′ having a central opening D^2. The bolt C is in threaded engagement in the opening B^2 of the eye B′ and its threaded lower portion extends downward in the axis of the coil and is engaged by a long nut E which passes upward through the opening in the bottom of the cup and is provided with a head which engages the cup's bottom, and is wholly above the plane of the body of the plate D. The bolt extends above the coil and is bent laterally and provided with a terminal hook to engage the frame at F. Preferably, the plate D is rigidly fixed to the coil by brazing or other well known means and to the lower face of the plate is secured in any suitable way a soft pad G, of annular form, incapable of injuring the surface of a table and itself materially aiding in lessening vibration and noise.

In attachine the foot to the machine frame, the bolt is hooked over the frame member and the spring is screwed upon it, nut-like, until the frame member is firmly gripped between the hook and the upper end of the coil. The nut E is then applied and screwed home so far that its head engages the bottom of the cup, and its advance may be continued until any desired tension is put upon the spring. Obviously the nut holds the lower portion of the rod in the axial line of the coil, thus preventing undue strain upon the threaded eye while at the same time serving to adjust the coil's tension.

It is evident that the one-piece spring affords a support that is practically indestructible in use and that its annular flange is readily held securely by suitable clamping devices upon the table.

What I claim is:

1. In a support for typewriting machines, the combination with a machine-supporting spring coil having its constituent bar carried inward at the upper end of the coil and formed into an axial, internally threaded eye and carried outward at the lower end of the coil and forming an external annular flange to serve as a plane spiral base for the coil, of a vertical threaded bolt engaged in and extending to some distance below said eye and provided above with a hook to engage the frame of the machine and means for holding the lower portion of the rod in the line of the coil's axis.

2. In apparatus of the class described, the combination with a cushioning spring coil adapted to bear at its upper end against the lower surface of the frame, of a bolt in threaded engagement with the upper end of the coil, extending nearly to the lower end of the coil, and adapted to engage the frame at some distance above the coil, and a nut in engagement with the lower end of the coil and arranged to draw the lower end of the coil upward, to increase the coil's tension.

3. In a cushioning support of the class de-

scribed, the combination with a spring coil having at its upper end an axial threaded eye and near its lower end a nut rotating in the coil in a fixed plane below that upper end, of a bolt in threaded engagement with said eye and nut and having above the coil a hook for engaging a machine frame gripped between the hook and coil, whereby rotation of the nut with respect to the coil adjusts the length and tension of the latter.

4. The combination with a spring coil having an axial threaded eye at its upper end and an external annular flange at its lower end, of a metal plate resting against the lower end of the coil and provided with an axial centrally perforated upwardly extending portion and with a pad upon its lower face, and a bolt in threaded engagement with both said eye and a nut lying in said upwardly extending portion and provided, above the coil, with a hook to engage a frame resting upon the coil.

In testimony whereof I affix my signature in presence of two witnesses.

EMMA SHERWOOD.

Witnesses:
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