

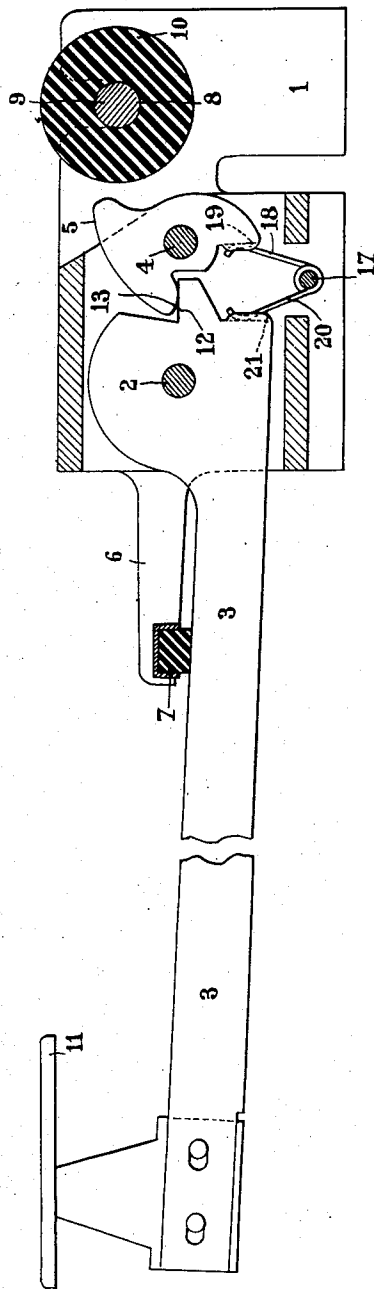
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ARRANGEMENT FOR OPERATING TYPE-BARS

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ARRANGEMENT FOR OPERATING TYPE-BARS

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1 Claim. (Cl. 197—9)

This invention relates to improvements to typewriters and more particularly to shorthand typewriters, its object being to produce an arrangement for operating the type-bars by effecting a permanent contact between the key-bar and the corresponding type-bar, the bearing of the said key-bar against an elastic stop, and the automatic taking up of the possible play of the key-bar and the type-bar on their respective pivots, which are parallel. In this way one of the causes of the noise due to the touch of the type-bars is eliminated and the wear and tear of the parts concerned lessened.

To this end the key-bar comprises a bearing surface substantially radial, constantly resting on which is a corresponding cam-shaped surface of the type-bar, in such a way that an oscillation of the key-bar about its pivot induces a corresponding oscillation of the type-bar about its pivot and its touch on the platen.

Moreover, according to this invention, a single spring pin, mounted on a pivot parallel to those of the key-bar and the type-bar, acts by each of its ends on one of the radial surfaces of one of these organs in such a way as to push the type-bar against the key-bar and to push the latter against its elastic stop.

Reference is to be had to the accompanying drawing forming a part of this specification, it being understood that the drawing is merely illustrative of a practical example of the invention.

The machine, of which only the modified parts are shown, comprises a frame 1 on which is mounted, pivoting about the pivot 2, a key-bar 3, and about a pivot 4, the type-bar 5; it includes in addition, through the instrumentality of the arms 6, an elastic stop 7, and, in the bearings 8, the trunnions 9 of the platen 10.

The key-bar comprises at its end near the pivot 2 and opposite to that of the keys 11 a radial surface 12 constantly in contact with the corresponding cam-shaped surface 13 of the type-bar 5.

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The spring pin is mounted about a pivot 17 in such a way that one of its arms 18 bears on a radial surface 19 of the type-bar 5 and constantly tends to cause it so to pivot that its cam-shaped surface 13 comes to bear against the corresponding surface 12 of the key-bar, whilst its other arm 20 bears on the radial surface 21 of the key-bar 3 in such a way as to cause it to rotate about its pivot 2 in order to bring it into contact with the elastic stop 7.

A single pivot 17 fixed to the frame 1 may serve for all the spring pins of all the key-bars of the machine, thus considerably facilitating the mounting.

It will be obvious that the invention is not limited by the details of the practical example shown above. Various changes may be made in the details of construction without departing from the spirit and scope of the invention as described in the claim.

What I claim is:

A typewriting or shorthand typewriting machine comprising a platen, at least one key-bar rotatable about a pivot, and at least one type-bar rotatable about a pivot and adapted for cooperation with the said key-bar, in which the two said pivots are parallel to one another and to the platen, the key-bar comprising a bearing surface extending substantially in a plane passing through the axes of said two pivots, and the type-bar comprising a corresponding surface constantly resting upon the bearing surface of the key-bar, an oscillation of the key-bar about its pivot inducing thereby a corresponding oscillation of the type-bar about its pivot, and causing said type-bar to touch said platen, said typewriting machine further comprising an elastic stop for the key-bar and a hairpin spring mounted on a pivot pin parallel to the pivots of said type-bar and key-bar and disposed between these pivots but at a lower level, the ends of said hairpin spring bearing freely against registering surfaces of said key-bar and type-bar which are substantially at right angles to the plane passing through the axes of these two members, so as to urge said type-bar against said key-bar and said key-bar against the relevant elastic stop.

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