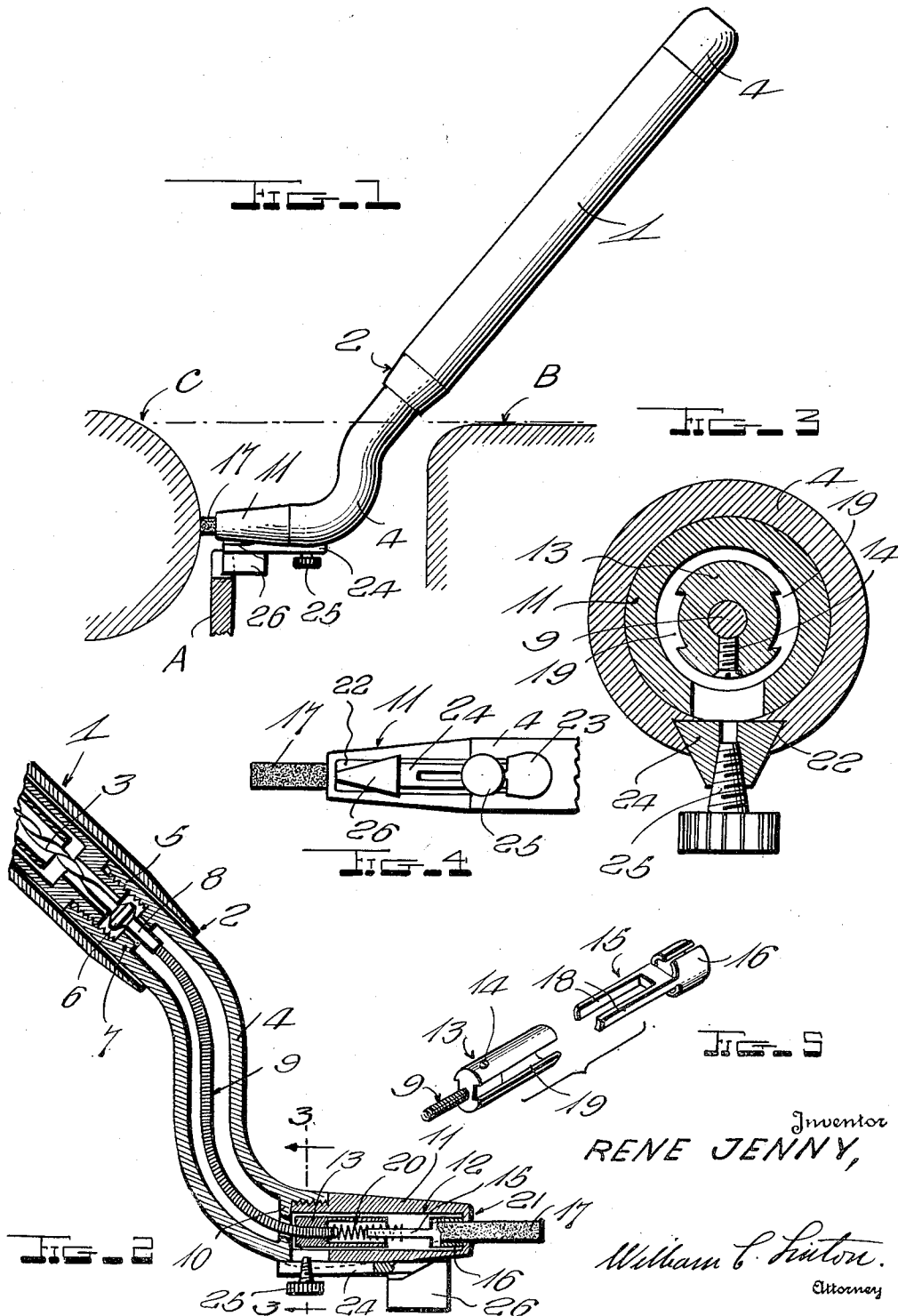


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ERASING DEVICE

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ERASING DEVICE

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3 Claims. (Cl. 120—36)

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The present invention relates to eraser instruments for typewriters of the type as is set forth in my co-pending application Serial No. 613,884 filed August 31, 1945, now abandoned, and its object is to provide an angular or goose-neck extension for such instruments whereby the eraser thereof may be more conveniently presented for use wherein the platen roller having the matter thereupon to be erased is seated at a remote place within the frame of the typewriter.

Other objects of the invention will be in part obvious and in part pointed out hereinafter as the description continues.

In the accompanying drawings:

Fig. 1 illustrates in side elevation the erasing instrument embodying the invention, as applied to the platen roller of a standard make of typewriter with the latter being diagrammatically shown.

Fig. 2 is an enlarged detail longitudinal sectional view of the instrument.

Fig. 3 is an enlarged transverse section taken on the line 3—3 of Fig. 2 in the direction of the arrow points.

Fig. 4 is a detail bottom plan view of one end of the instrument, and

Fig. 5 is a detail perspective view of the eraser retaining member when the parts thereof are separate.

In several of the standard makes of typewriters the forked type-bar guides are above the frame thereof or at least accessible wherein a rotary erasing instrument having a straight handle may have supporting engagement therewith, but in other standard makes of typewriters the type-bar guides thereof are so seated within the framework as would necessitate an angular or offset extension for the erasing instrument in order that the latter may have supporting engagement therewith and the eraser presented in proper relation with the matter upon the paper to be erased, as the latter passes over the platen roller of the typewriter. In Fig. 1 of the drawings I have schematically illustrated a standard make of typewriter in which the forked type-bar guide A thereof is positioned within and below the upper face of the framework B and how my improved erasing instrument can have supporting engagement with the type-bar guide A thereof for retaining and directing the eraser directly upon the matter to be erased as the latter passes over the platen roller C. Yet the handle of the instrument will extend at an angle above the framework B whereupon the operator may

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through the reciprocation thereof transmit a rotary motion to the eraser.

This erasing instrument comprises a handle 1 slidably mounted upon a tubular guide member 2 in which is journaled a spindle 3 and the latter is so connected to the handle that through reciprocation of the handle a rotary motion will be transmitted to the spindle 3. The angular or goose-neck extension consists of a cylindrical tube 4 having a threaded socket 5 formed at one end thereof for detachable engagement with a threaded boss at the lower end of the guide member 2. An annular shoulder 6 is shown adjacent the lower end of the spindle 3 and is mounted for rotation in a cavity provided between the guide member 2 and an apertured flange 7 projecting within the tube 4. The lower free end of the spindle is provided with a socket 8 extending through the apertured flange 7 and connected to this socket is one end of a flexible cable or shaft 9. The opposite end of this tube 4 is provided with another inwardly projecting apertured flange 10, through which extends the shaft 9, as well as with a threaded socket for detachably receiving a threaded boss shown at the inner end of a nipple 11.

The outer cylindrical surface of the nipple 11 is tapered towards its outer end and a cylindrical bore 12 is formed therein for rotatably receiving an eraser retaining member. As best shown in Fig. 5 of the drawing, this eraser retaining member comprises a part 13 to which is detachably connected by means of the set screw 14 one end of the shaft 9 and a slidable part 15 provided with a socket 16 for receiving the cylindrical eraser 17. Part 15 is provided with a pair of oppositely disposed parallel arms 18 slidable within grooves 19 of the other part whereby, as the shaft 9 is rotated, the eraser 17 will be caused to rotate therewith. Housed within the parts 13, 15 of the eraser retaining member is a coil spring 20 which normally forces the part 15 against the annular flange 21 extending inwardly from the outer end of the nipple. This spring 20 applies the required pressure upon the eraser 17 as is necessary for erasing operations.

The lower outer surface of the nipple 11 has a longitudinally extending groove 22 formed therein and the inner end of this groove registers with a corresponding groove 23 formed in the extension tube 4 when the latter is connected to the nipple. Slidably retained in these grooves 22 and 23 is a split block 24 provided with a tapered set screw 25 capable of forcing the split arms of the block in frictional contact with the

tapered side walls of the grooves 22 and 23 for locking or retaining the block in its adjusted positions. A wedge-shaped lug 26 is shown at the outer end of this block 24 and is provided for supporting engagement between the arms of the forked type-bar guide A of the typewriter in the manner illustrated in Fig. 1.

This wedge-shaped lug 26 will retain the nipple 11 in a horizontal position at right angles to the platen roller C and direct or guide the outer end of the eraser 17 upon the particular matter to be erased on a sheet of paper, as the latter passes over the platen roller of the typewriter. By adjusting the lug 26 longitudinally of the nipple 11 the outer end of the latter may be retained in the proper spaced relation with the sheet of paper having the matter thereon to be erased so that the coil spring 20 will exert the required pressure upon the eraser 17 according to the length of the latter when performing erasing operations. After the eraser 17 is positioned upon the matter to be erased, the operator will reciprocate the handle 1 for rotating the eraser. By this arrangement the nipple 11 will retain the eraser directly upon a single letter of the matter to be erased without erasing adjacent letters and the type-bar guide A will provide a support for the instrument, yet the handle 1 will extend above the frame of the typewriter whereat the operator will have free access thereto when giving a reciprocity movement thereto.

I claim:

1. A rotary eraser instrument comprising, in combination, a handle, a rotatable shaft mounted within said handle, a nipple, means including a goose-neck tube connecting said nipple to said handle, a two-part holding member mounted for rotation within said nipple, a flexible shaft extending through said goose-neck tube for connecting said shaft with said holding member, a socket carried by one part of said holding member and slidably connected to the other part of the same, and a lug externally carried by said nipple.

2. A rotary eraser instrument comprising, in combination, a holder, an offset extension secured to said holder, a flexible shaft extending through said extension, a handle mounted for reciprocation upon said holder and connecting to said shaft whereby with the reciprocation of said handle a rotary movement will be transmitted to said shaft, a nipple, an eraser holding member mounted for rotation within said nipple, means for detachably connecting said member to said shaft, a lug, and means for adjustably and detachably connecting said lug to said nipple.

3. An erasing instrument, for use in connection with a typewriter having a type-bar guide, comprising a tubular guide member, a handle reciprocably disposed thereupon, an offset extension secured to said guide member, a flexible shaft extending through said extension, means interconnecting said shaft and said guide member, said means being responsive to reciprocation of said handle to impart a rotary movement to said shaft, a nipple connected to said extension, an eraser holding member within said nipple, means interconnecting said member and said shaft, and a lug on the external surface of said nipple engageable with the type-bar guide.

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