Jan. 8, 1946. J. G. BANISTER 2,392,517

ACCESSORY DEVICE FOR TYPEWRITERS

Filed Oct. 7, 1944 2 Sheets-Sheet 1

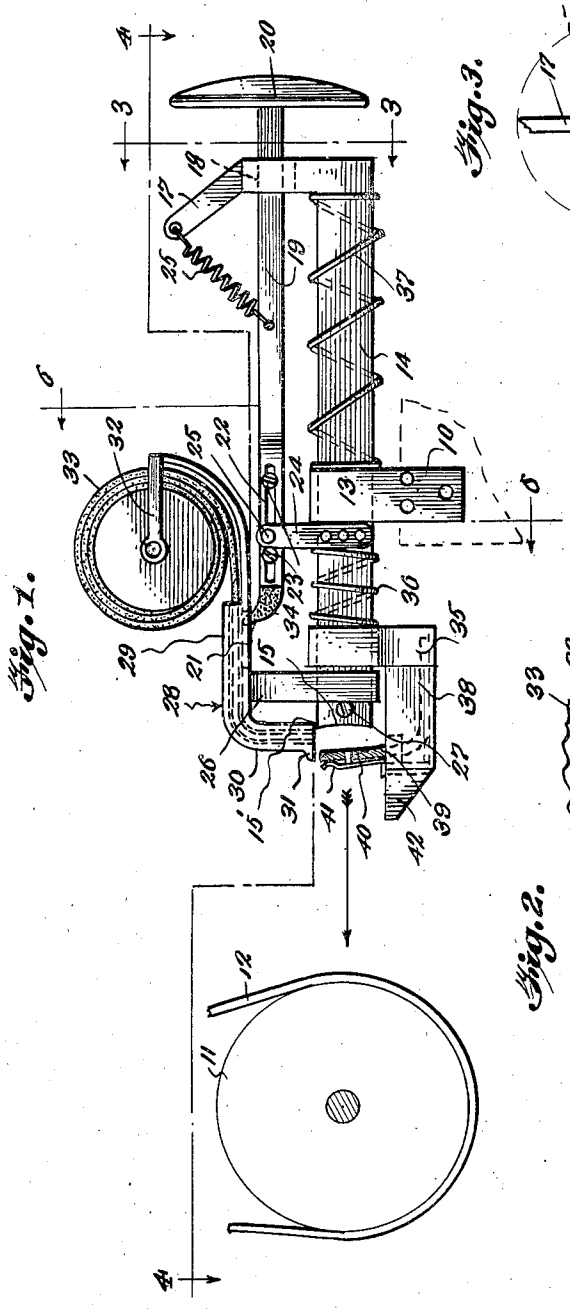


Fig. 1.

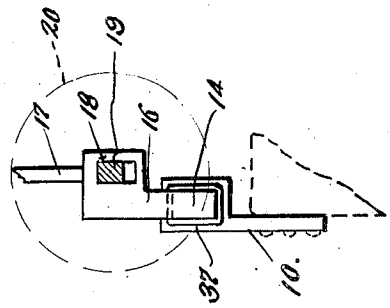


Fig. 3.

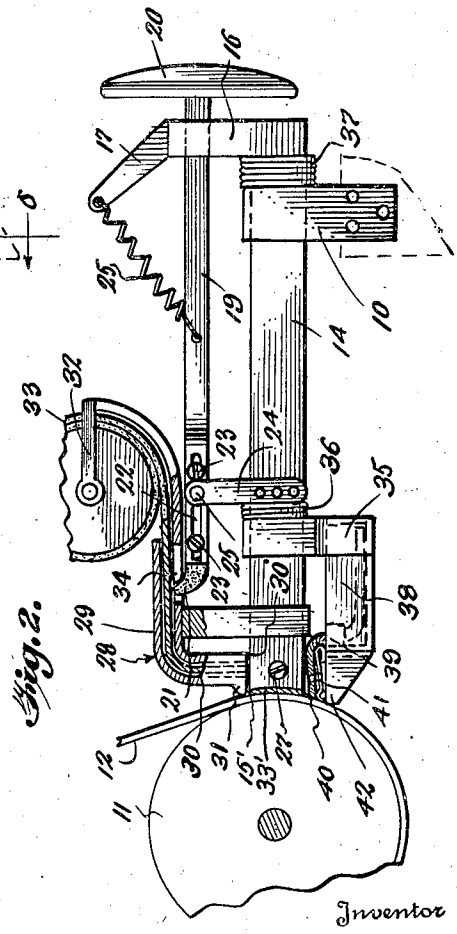


Fig. 2.

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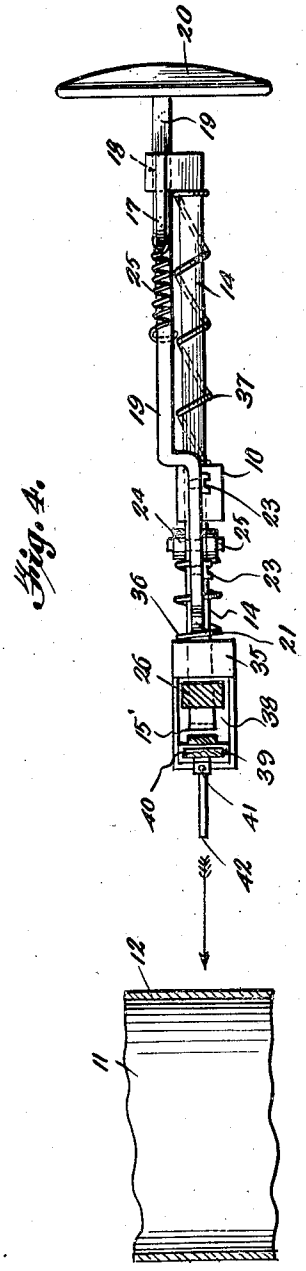


Fig. 4.

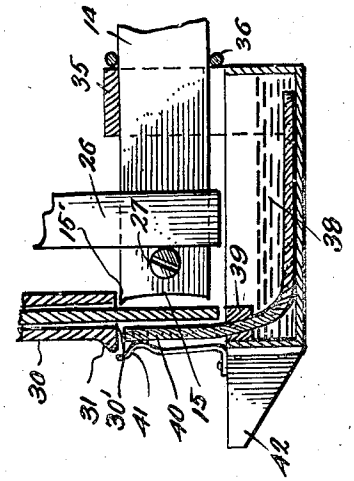


Fig. 7.

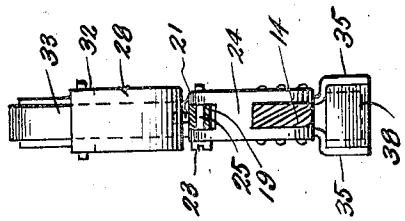


Fig. 6.

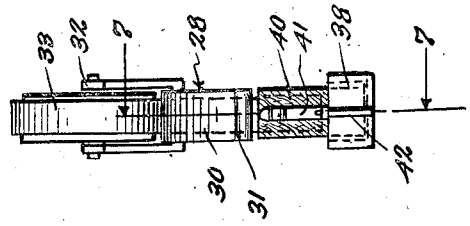


Fig. 5.

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2,392,517

ACCESSORY DEVICE FOR TYPEWRITERS

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Application October 7, 1944, Serial No. 557,653

8 Claims. (Cl. 197—180)

This invention relates generally to accessory devices for typewriters and is directed more particularly to a device for facilitating the making of corrections on a typed page.

A principal object of the present invention is to provide a device which may be mounted upon a typewriter as an accessory, by means of which the making of corrections on a typed page may be easily and quickly accomplished without the usual operation of erasing and retyping the incorrectly typed letter.

Another object of the invention is to provide an accessory device for a typewriter which when operated applies and secures to the typed sheet, over the incorrectly typed letter, a section of paper upon which the correct letter may then be typed.

Another object of the invention is to provide a device of the character stated, carrying a roll of paper ribbon having an adhesive upon one surface thereof, together with means for moistening and cutting off a section of such paper ribbon and applying the cut-off piece to the typed sheet over the incorrectly typed letter.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawings forming a part of the present invention, it being understood, however, that the invention is not confined to a strict conformity with the showing of the drawings but may be changed or modified so long as such changes or modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:

Figure 1 is a view in side elevation of a device constructed in accordance with the present invention showing the relation of the parts when the device is idle.

Figure 2 is a view corresponding to Figure 1 but showing the relation to parts when the device is advanced for the application of a portion of the paper ribbon to a typed sheet.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a horizontal section taken on the line 4—4 of Figure 1.

Figure 5 is a view looking toward the front end of the device.

Figure 6 is a sectional view taken substantially on the line 6—6 of Figure 1.

Figure 7 is a sectional view on an enlarged scale taken on the line 7—7 of Figure 5.

Referring now more particularly to the drawings the device of the present invention is illustrated as mounted upon the front of a typewriter, not shown, by means of a bracket 10, secured to the body of the typewriter in any appropriate manner to position the operative parts of the device properly with respect to the platen roll 11 of the typewriter across which the paper sheet, designated 12, lies. It is to be understood, however, that the invention is not confined to use in mounted position upon the typewriter since it will be readily apparent that it may be used by being held in the hand, in which case the mounting or supporting bracket might be appropriately formed for grasping by the hand.

The mounting bracket 10 is secured to the front part of the typewriter machine so that the guide 13 which is carried upon the top of the bracket, will be directed toward the platen roll 11 at the left hand side of the point on the platen roll which is struck by a type key. The reason for this mounting will become readily apparent as the description of the invention proceeds.

Extending through and slidably supported in the guide 16 is a reciprocable presser bar 14, the forward end face of which is slightly curved to substantially conform to the curvature of the platen roll, as indicated at 15. Upon the outer end of this bar 14, or that end remote from the platen roll 11, is the upstanding guide 16 which terminates in a forwardly inclined finger portion 17 and this upstanding portion 16 of the presser bar is formed to provide a vertical guide or slot 18 through which slidably extends the paper ribbon shifter or plunger 19.

At its outer end this plunger 19 carries the head or button 20 while at its inner end it carries a friction finger 21 which may be in the form of a rubber tip.

Adjacent the forward end of the plunger 19, the plunger has formed therethrough the longitudinally extending slot 22 through each end of which is extended a stop pin or screw 23 which is adjustable as to its position in the slot so that the space between the two stop pins may be increased or decreased in length within certain limits.

Ahead of the guide 13, the presser bar carries the plunger supporting post 24 and at the upper end of this post there is mounted the transversely extending pin 25 which passes through the slot 22 of the plunger as illustrated. This pin 25 is suitably supported so that the forward end of the plunger may be oscillated or rocked thereon to raise and lower the friction tip 21 and the plunger is also designed to move forwardly and

rearwardly upon the pin 25 as will be readily apparent from the following description.

The outer end of the plunger 19 is normally held in raised position with respect to the presser bar 14 by the spring 25 which connects between the end of the finger 17 and the bar 19 as shown. The bar 19 is thus normally maintained substantially parallel with the presser bar 14.

Upon the forward end of the presser bar 14 there is mounted a paper ribbon guide supporting bracket 26, the forward movement of which upon the presser bar is limited by the set screw 27 which is carried by the presser bar.

The bracket 26 supports the paper ribbon guide 28 which has a substantially horizontal portion 29 which merges at its forward end in the downturned portion 30, the outlet or mouth of which is normally just in advance of the forward end of the presser bar.

The front or forward side of the downturned portion 30 of the paper ribbon guide is extended slightly forwardly to provide the nose 31 which contacts the paper sheet 12 when the parts are shifted forwardly for the application of a cut-off section of the paper ribbon.

The rear part of the portion 29 of the paper ribbon guide carries a paper ribbon roll holder 32 upon which the ribbon roll, designated 33, is mounted. The end of the ribbon is then threaded forwardly through the guide 28 so that when an advance movement is imparted to the end of the ribbon a portion thereof will be extended downwardly from the outlet of the guide to position before the forward end of the bar.

The desired forward movement is imparted to the paper ribbon by means of the friction tip 21 of the plunger bar 19 which is adapted to be brought into contact with the ribbon through the slot 34 formed longitudinally in the under part of the guide 28.

The action of shifting the ribbon forwardly to the desired extent is produced by oscillating the button 20 and the plunger 19 downwardly on the pivot 25 so as to raise the tip 21 into contact with the ribbon and then shoving the plunger forwardly. The amount of the ribbon which will be projected from the outlet end of the guide will be determined by the setting or spacing of the stop 23.

Behind the ribbon guide bracket 26, which is movable on the presser bar 14, there is mounted on the presser bar, a hanger bracket 35 which is adapted to have movement on the presser bar and which is disposed between the bracket 26 and the plunger supporting post 24. Between this bracket 35 and the post 24 is a compression spring 36 which normally urges the brackets 26 and 35 away from the post 24.

Upon the presser bar 14 between the presser bar guide 13 and the upstanding outer end portion 16, is a compression spring 37 which, bearing at one end against the fixed guide 13, constantly urges movement of the presser bar 14 back or away from the platen roll.

The hanging bracket 35 is connected with and supports a water receptacle 38 which has the top outlet 39 from which extends upwardly the tape moistener wick 40 which is positioned with respect to the forward end of the presser bar so that the extended portion of the paper ribbon will be introduced between the wick 40 and the end face 15 of the pusher bar.

One side surface of the ribbon is provided with an adhesive and this surface is away from the friction tip 21 so that the latter engages the paper directly. Also, it will be seen that this will bring the gummed surface in a proper position to be pressed against the moistening wick 40 when the extended portion of the ribbon is pressed toward the platen roll and the paper lying thereover, by the plunger bar.

Secured to the mouth 39 of the water receptacle upon the side of the wick 40 remote from the presser bar, is an upstanding spring tongue 41 which normally holds the wick in the proper position to have the extended end portion of the paper ribbon pressed thereagainst, but which is sufficiently light in weight to be readily bent or flexed over when the plunger bar is pushed forwardly.

The forward side of the water receptacle 38 carries the stop finger 42 which engages the surface of the paper 12 on the platen roll in the operation of the device as hereinafter described.

The operation of the present device is as follows:

When an error is made upon the paper sheet 12, the printed letter will advance one step beyond the type striking position as soon as the key is released. The present device is so mounted on the machine that the presser bar will then be in line with the incorrectly printed letter after this advance step is made.

The user of the device then oscillates the outer end of the plunger 19 downwardly to bring the tip 21 into engagement with the paper ribbon and then pushes the plunger inwardly to shift the ribbon to the proper extent to move a portion thereof out of the guide and into position in front of the curved face 15 of the presser bar 14. The plunger 19 is then permitted to oscillate back to its horizontal position whereupon forward pressure is applied to the button 20 which will effect the advance movement of the presser bar 14. When the presser bar is shifted forwardly, the paper ribbon carrier and the water receptacle will also move forwardly until the stop finger 42 engages the paper on the platen roll. This will stop the advance movement of the water receptacle and will cause the moistening wick to come into contact with the gummed surface of the extended portion of the paper ribbon.

The ribbon and ribbon carrier will however, continue to move forwardly until the nose 31 of the carrier engages the paper 12 whereupon further advance of the carrier is checked. The presser bar then continues to move forwardly and in so doing the top edge 15', which is somewhat sharpened, shears off the ribbon against the forward edge 30' of the outlet of the guide and the separated piece or tab of the paper ribbon, which is designated 33', is then carried forward and is pressed against the paper sheet 12 over the misprint, by the face 15 of the presser bar.

After the application of the covering tab 33', the platen may be backspaced in the customary manner and the correct letter typed.

I claim:

1. In combination with a typewriter a device for correcting an error on a typed sheet on the typewriter platen roll, comprising means for supporting a gummed roll of paper ribbon in front of a typewriter platen roll, means for measuring off a prescribed length of said ribbon and positioning the same in front of such roll, and means for moistening, cutting off and applying said length of the ribbon to the typed sheet over a misprint.

2. The combination with a typewriter, of means for supporting on the typewriter a roll of paper

ribbon having one surface gummed, means for moving a portion of the end of the ribbon into a prescribed position with respect to the platen roll of the typewriter, a yieldable means for moistening the gummed surface of the said portion of the ribbon, and means for pressing said ribbon portion across said moistening means and cutting off the moistened portion and carrying the same toward the platen roll on and over said yieldable means for application to a typed sheet lying against the platen roll.

3. A misprint correcting device for a typewriter, comprising a means for supporting in front of a typewriter platen roll a paper ribbon roll having one gummed surface, a guide through which the end of the roll may be extended, the guide having an outlet from which a portion of the ribbon end is projected, said outlet being positioned with respect to the typewriter platen roll whereby the projected portion of the ribbon will have its gummed surface in opposed relation with the platen roll, means for shifting the ribbon to project a portion of the end from the guide outlet, a moistening element shiftably supported between the platen roll and the projecting portion of the ribbon, a combined shearing and pressing means constructed and arranged to move against the gum free side of the projecting portion of the ribbon and shear off and press the gummed face of such portion against said moistening element and to press the moistened portion against a paper sheet overlying the platen roll, and means for effecting the shifting of the moistening element out of the path of movement of the sheared off moistened portion.

4. An attachment for a typewriter, comprising a guide adapted to be secured to the typewriter in front of the typewriter platen roll, a presser bar carried by the guide to align with the typewriter platen roll upon the side of the point struck by a type element to which the typed character moves automatically after the making of the typed impression on a paper sheet, a supporting means for a paper ribbon roll having one side face gummed, means for shifting the ribbon to position a portion thereof between an end of the presser bar and the platen roll, a moistening element shiftably supported between the platen roll and the projecting portion of the ribbon, cooperating means between the presser bar and an edge of the guide for shearing off the said portion of the ribbon upon movement of the presser bar toward the platen roll, means for effecting the shifting of the moistening element out of the path of movement of the sheared off moistened portion and said presser bar pressing the said portion of the ribbon against a paper sheet on the platen roll by the said forward movement.

5. A device of the character stated, for application to a typewriter, comprising a supporting guide, a presser bar mounted in said guide for movement toward and away from the typewriter platen roll, the forward end of the presser bar being designed to substantially conform to the curvature of the platen roll, means for supporting a roll of paper ribbon having a gummed surface, adjacent to the presser bar, a guide for the paper ribbon having an outlet adjacent to the forward end of the presser bar when the latter is in its fully retracted position away from the platen roll, a reciprocable finger designed for connection with the ribbon to effect the advancement of the latter through the guide for the projection of a portion of the ribbon into position in front of the forward end of the presser bar, a moistening wick, a water receptacle connected with the presser bar to move therewith but having movement relative to the presser bar, said wick being supported upon the side of the extended portion of the ribbon opposite from the forward end of the presser bar, the ribbon guide and holder and the water receptacle being movable with the presser bar toward the platen roll, the ribbon guide having limited movement relative to the presser bar, means for checking the advance movement of the water receptacle ahead of the presser bar movement whereby to bring the said portion of the ribbon in contact with said moistening wick, means for checking the forward movement of the ribbon guide after the checking of movement of the water receptacle and before the presser bar reaches the limit of its movement, and means operated by the presser bar subsequent to the checking of the movement of the ribbon guide to cut-off the said portion of the ribbon and advance the same into contact with a paper sheet on the platen roll.

6. An attachment for a typewriter, comprising a guide adapted to be supported on a typewriter in front of the platen roll, a member reciprocably supported by the guide for movement toward and away from the platen roll, a means for supporting a roll of gummed paper adjacent to said member, means movable independently of the member for feeding a portion of the paper into position between the member and the platen roll with the gummed side of the paper toward the platen roll, a moistening element shiftably supported between the member and the platen roll and between the platen roll and the shifted portion of the paper, and means for effecting relative movement between the shiftable moistening element, the projected portion of the paper and said member upon movement of the member toward the platen roll whereby to wipe the gummed surface of the said portion of the paper across the moistening element immediately preceding the application of the moistened paper portion to the surface to which it is to be applied.

7. An attachment for a typewriter, comprising a guide designed to be secured to a typewriter in front of the platen roll thereof, a presser bar reciprocably supported by the guide, the presser bar having a forward end designed to press a moistened portion of a gummed paper ribbon against a sheet on the typewriter platen roll, a moistening unit comprising a receptacle, a moistening pad extending upwardly from the receptacle and adapted to be shifted to a lowered position, a guide carried by the receptacle, said guide having the bar member slidably extended therethrough, spring means interposed between said guides to normally yieldably hold the moistening unit in an advance position with respect to the forward end of the bar member, spring means connected between the first guide and the bar member and normally acting to yieldably hold the bar member in retracted position with respect to the platen roll, means for supporting a gummed paper roll upon the bar member and for guiding a portion of such a roll into position between the moistening pad and the forward end of the bar member, means carried by the bar member for advancing a portion of the paper into the stated position, and means for shearing off the advanced portion of the gummed paper from the roll for the movement of such sheared off portion by the bar member across the moistening pad toward the adjacent platen roll.

8. An attachment for a typewriter, comprising

a guide adapted to be secured to a typewriter in front of a platen roll, a presser bar carried by the guide to align an end with the typewriter platen roll and for movement toward a paper sheet thereon, a support slidably mounted on said bar to carry a gummed paper strip, means for guiding an end of such strip from the support across the said end of the bar, the said end of the bar and the guiding means being formed to provide cooperating shearing means to cut off a portion of the paper strip upon relative movement of the bar and paper strip support, means carried by the bar for movement relative thereto for advancing the paper strip from the guide to position across the said end of the bar, a moistening unit supported by and adapted to move relative to the bar and including a shiftable pad spaced from the said end of the bar and between which and the end of the bar the said end portion of the strip is positioned, and said moistening unit being constructed and arranged relative to the bar to engage and be stopped by the platen roll in advance of the bar whereby the said portion of the paper strip will be sheared off and wiped across the pad and then pressed by the said end of the bar against a sheet on the platen roll.

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