Jan. 20, 1948. B. RUBIN 2,434,866

TYPEWRITER PAPER GUIDE

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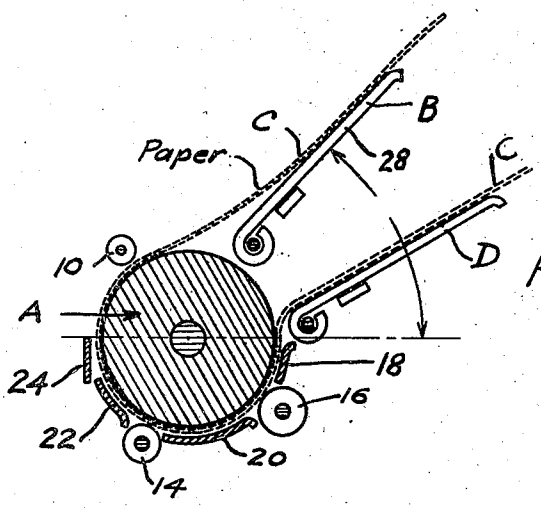


Fig. 3.

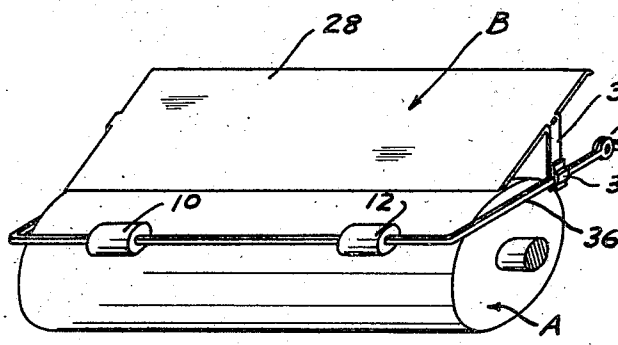


Fig. 1

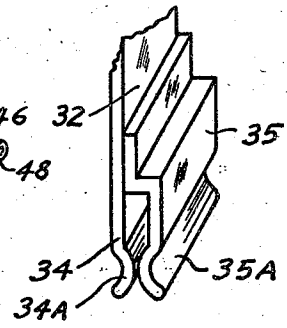


Fig. 2

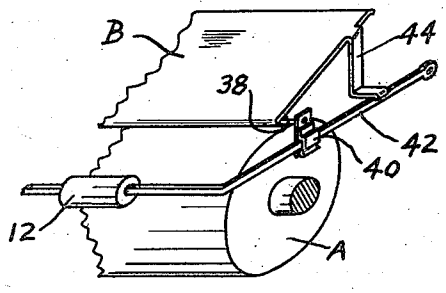


Fig. 4.

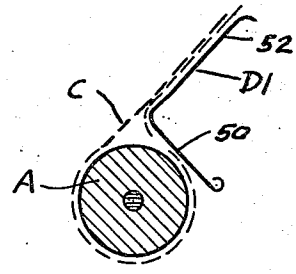


Fig. 5.

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TYPEWRITER PAPER GUIDE

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1 Claim. (Cl. 197—127)

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My invention relates to a typewriter and relates particularly to a guide to prevent the paper from curling around the platen.

Heretofore, when typing numerous copies of a work and using numerous carbon sheets interleaved with the copy papers it has been found that after the sheets are revolved about the platen of the typewriter, particularly in damp or rainy weather, that the sheets closest to the platen droop and continue to completely encircle the platen so that the penultimate and the antepenultimate sheets may be spoiled or blurred by the repeated typing over the typing.

It is, therefore, an object of my invention to provide a guide for paper which will prevent the sheets from completely encircling the platen of the typewriter.

Another object of my invention is to provide a paper guide for typewriters which may be embodied in old typewriters or in new typewriters and which will not affect the operation of the machine.

Other objects of my invention are to provide device of the character described, that is easily and economically produced, which is sturdy in construction, and which is highly efficient in operation.

With the above and related objects in view, my invention consists in the details of construction and combination of parts, as will be more fully understood from the following description, when read in conjunction with the accompanying drawing in which:

Fig. 1 is a perspective view of a typewriter platen with a paper guide embodying my invention.

Fig. 2 is a perspective view of a portion of a guide clamp which may be attached to the arms which hold pressure rollers that press the sheets of paper against the platen of the typewriter.

Fig. 3 is a fragmentary sectional view through the typewriter platen and the paper guide for attachment to a conventional typewriter.

Fig. 4 is a fragmentary perspective view of a modification of my invention.

Fig. 5 is a fragmentary perspective view of another modification of my invention.

Referring now in detail to the drawing wherein the same reference characters refer to similar parts, I show a typewriter platen, generally designated as A, the typewriter keys and mechanism is not shown as they are of the conventional constructions. My invention may be applied to present typewriters which do not have the non-curling guide thereon or it may be applied and embodied in newly manufactured typewriters.

A complete paper carriage for typewriting machine is not shown, but the paper guiding mechanism is embodied herein.

The platen A, Figs. 1 and 3, has paper guiding

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and supporting rolls 10, 14, and 16, arranged in parallel relation to the platen and journaled in suitable bearings in a carriage frame or in the paper-guiding and supporting apron mechanism for the paper carriage, and the paper-guiding or feeding rolls 10, 14 and 16 are located adjacent to the periphery of the platen. The main back paper-guiding plate is generally designated as D, and forms part of the typewriter. A paper-guiding arcuate plate 18, may be located between the lower edge of main plate B and roll 16, and another guiding arcuate plate 20 is between rolls 14 and 16, and still another guiding arcuate plate 22 may be between roll 14 and a space bar or scale plate 24.

An auxiliary paper guide, generally designated as D, to prevent curling of the under copies of the sheets around the platen A, comprises an elongated plate 28 extending to the top of the platen A, and is supported on side arms 32.

In typewriters as customarily constructed, the main guide inclines below the normal to the platen, hence to utilize my invention I substitute a main guide B which has a suitable supporting arm 32 at each side thereof. At the end of the arm 32 is a slipover spring clamp 34, 35 whose inwardly beveled ends 34A and 35A pinches upon the side arm 36 of the shiftable roll support 36. The main guide B includes to the uppermost portion of the platen and prevents the drooping and curling of paper C, which is shown in dotted lines in Fig. 3. In other words, the top of the plate B is inclined from the platen towards the top of D.

My invention may be made a part of a new typewriter or it may be made as an auxiliary guide to be embodied in an old typewriter.

In Fig. 4, I show a modification of my invention wherein the auxiliary guide B is pivoted at 38 to a clip 40, which pinches the side arm 42. A pair of right angle rest arms 44 are at each side and each arm 44 has a leg 46 resting upon the side arm 42.

In Fig. 1 the rollers 10 and 12 are pivoted on a bracket whose side arms 36 are pivoted to a link 46 which has its other end 48 pivoted to a portion of the typewriter not shown. This construction enables the auxiliary guide B to be moved adjacent the main paper guide D, whereas in Fig. 4, a short arm 42 does not permit the moving up of the auxiliary guide B. However, the modification in Fig. 4 does enable the auxiliary guide B to be moved adjacent the main guide D so that the paper is inserted when C and D are together, but the guide B is moved so that the portion of the paper is fed around the platen between guide B and D but the paper C emerges from contact with the platen on to auxiliary guide B.

The main guide B may be made of plastic, wood, or metal or any other suitable material

and it may be clamped in position by having fingers come from the top and clip upon the old guide present in the conventional machine.

As another modification of my invention, the customary paper guide D1, Fig. 5, may be modified so that it extends approximately in the position that auxiliary guide B of Fig. 3 now extends. The paper guide D1 is constructed so that no paper will curl between it and the platen, even though there is sufficient space between the guide D1 and the platen whereby paper may be inserted therebetween. The angle of inclination of the portion 52 depends upon the make and construction of the machine. The new guide D1 could be pivoted in the same position as customarily used but the paper guide D1 would partially surround the platen A as at 50 and then extend upwardly as at 52. Where the guide D1 bends from the inclined portion 52 to the platen surrounding portion 50 there must be sufficient space between the guide D1 and the platen A so that paper C can be pushed downwardly between the guide D1 and the platen A.

The paper guide D1 has the junction of the portions 50, 52, Fig. 5, protrude close to the top of the platen; this reduces to a minimum distance the space between the upper portion of the platen A and the lower portion of where the ordinary guide D of Fig. 3 would be located. This reduction or blocking of the space adjacent the top of the platen may be accomplished by other means.

It is to be noted that a portion of the paper C shown in Fig. 3 which is fed between the platen and the guide D, does not contact the other portion of the paper emerging from around the platen A so that the paper going around the platen does not pull the paper moving from the platen—hence the auxiliary platen B eliminates the pulling of the lowermost copies of paper around the platen by virtue of the feeding of the pull exerted by the lower portion of the papers passing downwardly towards the platen against the portion of the paper emerging upwardly

from the platen. In Fig. 5 the paper emerging from the roller can only move upwardly, and not curl around the platen, due to the portion 52 of paper guide D1.

Another modification of my invention is that rods or fingers of a narrow width may extend from the back, or top, of the guide D towards the platen to serve the same purpose as guide B.

Although my invention has been described in considerable detail, such description is intended as illustrative rather than limiting, since the invention may be variously embodied and the scope of the invention is to be determined as claimed.

I claim as my invention:

An auxiliary typewriter paper guide to prevent lower sheets of a multiple pile of paper sheets from encircling a typewriter platen comprising a paper guide extending across the substantial width of a typewriter platen and having a lower horizontal edge and an upper horizontal edge, a pivot point at each end of said lower edge of said guide, a clip adapted to be attached to each arm of the upper feed roll bail of the typewriter, a bearing on said clip whereby one of said pivot points may be pivotally supported on said clip, and a hook rest attached adjacent to the upper edge of said guide whereby the guide will be supported in an inclined position adjacent the upper portion of a typewriter platen.

BENJAMIN RUBIN.

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