W. L. GUMPRECHT.

TYPE WRITING MACHINE.

APPLICATION FILED MAR. 20, 1916.

1,227,262.

Patented May 22, 1917.

FIG. 1.

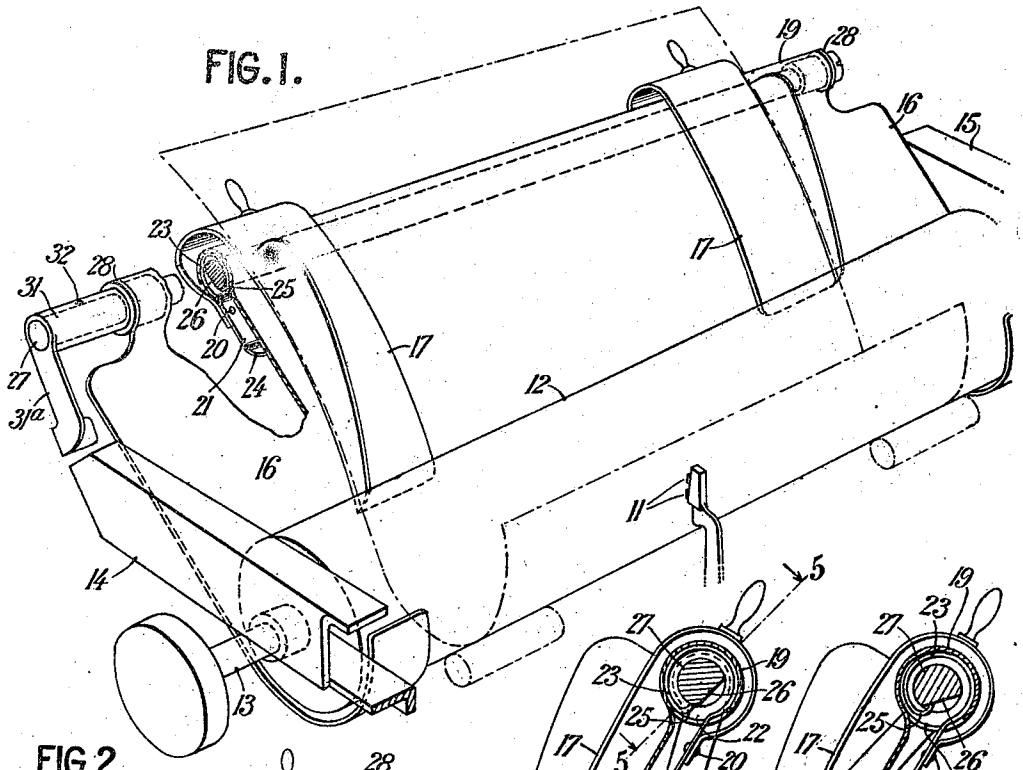
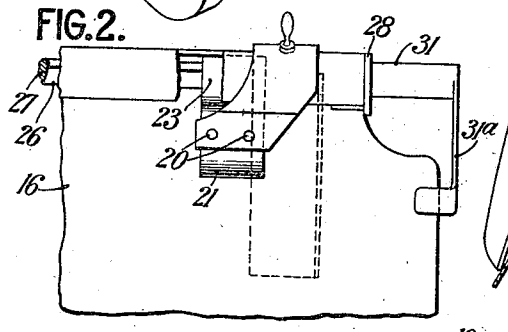


FIG. 2.



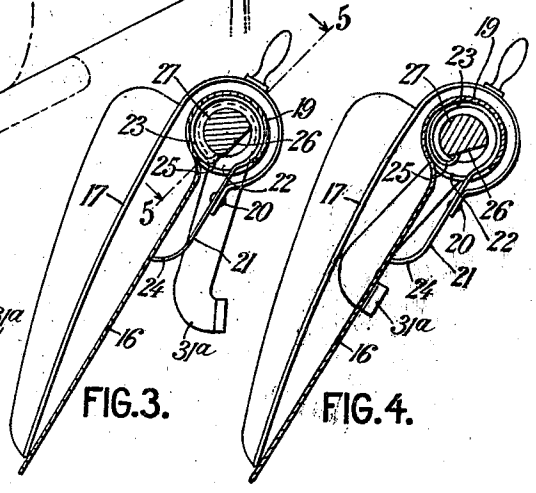
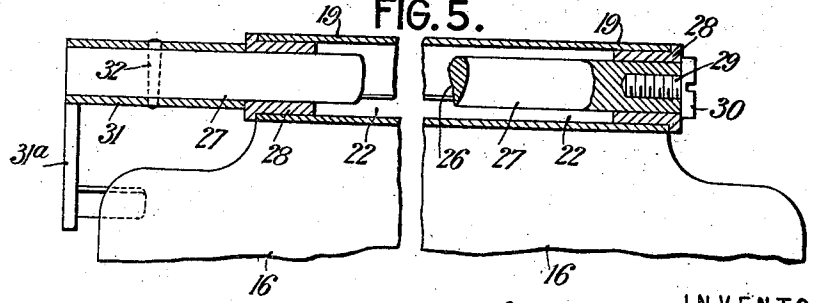


FIG. 3.

FIG. 4.

FIG. 5.



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TYPE-WRITING MACHINE.

1,227,262. Specification of Letters Patent. Patented May 22, 1917.

Application filed March 20, 1916. Serial No. 85,254.

To all whom it may concern:

Be it known that I, WILLIAM L. GUMPRECHT, a subject of the King of Great Britain, residing in Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to paper guides or other devices, slidably attached to the paper shelf at the introductory side of the platen of a typewriting machine, for guiding the paper around the platen or for other purposes.

To avoid marring the paper table, and avoid the necessity of providing a separate mounting for the guide, the latter is usually mounted upon a clip which engages the inner surface of the bead or rolled rim usually formed on the paper table. In order to hold the guide where set, the clip is usually made in the form of an expansion spring, which bears outwardly on the inner or unexposed surface of the bead, and causes the necessary friction between the paper table and the guide. The spring clip is usually so strong as to exert considerable resistance when slid along the paper table.

A feature of this invention is the provision of means whereby guides or other devices of this character may be mounted to move freely along the paper table, with provision for clamping them where set.

The means for clamping the guides is shown mounted neatly within the rolled portion of the paper table, and needs no support other than the paper table itself.

Another feature is that by the operation of a single clamping device, both guides may be held against movement, although the guides are independently adjustable.

According to the present invention, the means by which the guides are attached, may be in the form of a normally inactive spring which bears lightly upon the inner surface of the rolled portion and the back surface of the paper table, but which may be expanded to clamp against the inner surface of the rolled rim of the paper table.

In order to operate the clamp, a rod is advantageously extended through said rolled portion, and may be provided with a cut-away portion against which a part of the clip bears; and when the rod is rotated, the clip is thereby expanded outwardly against the paper table, causing the guides to become substantially fixed.

This rod is mounted within the bead upon the paper table upon bearings fitted in said beads at the ends thereof, and may be provided with a handle at each end, whereby it may be rotated for clamping and unclamping the guides to the paper table.

Other features and advantages will hereinafter appear.

In the accompanying drawings,

Figure 1 is a perspective view of part of the platen and paper table of an Underwood typewriting machine with my invention applied thereto, parts being broken away to show the clamping means.

Fig. 2 is a rear elevation of part of the paper table with my invention applied thereto, the paper table being broken away to show the parts more clearly.

Fig. 3 is a side sectional elevation of the paper table and the lateral guide, showing the guide clamped to the paper table.

Fig. 4 is the same as Fig. 3, with the exception that it shows the guide unclamped from the paper table.

Fig. 5 is a sectional view along the line 5—5 of Fig. 3.

In the usual Underwood typewriting machine, types 11 strike upwardly and rearwardly against a roller platen 12, to make type impressions thereon. The platen 12 is journaled by means of an axle 13 on the ends 14 and 15, of the platen frame, which also comprises a plate 16, forming a paper table, upon which the sheets are placed as they are introduced into the machine between the usual feed rolls and the platen. In order to guide the sheets at their side edges, there is provided a pair of lateral guides 17, each having an upturned guiding flange. The guides 17 extend forwardly over the rolled rim or bead portion 19 of the paper table, being rigidly secured by rivets 20 to an extension in the form of a clip or bearing member 21, and are so arranged as to clear the table except at the

extreme forward portion, (which is hidden) so as not to mar the finished visible portion of the paper table. The clip 21 extends out through a longitudinal opening 22 of the bead 19, at the top portion of the table; and it is provided with a rolled portion 23, fitting within the bead 19. The clip 21 also has a bearing portion 24, to hold the guide to the table, whereby the clip is prevented from turning. The clip 21 may be made in the form of a normally inactive spring, to bear or rest loosely within the rolled rim, and also to bear lightly against the rear side of the paper table with portion 24, so as to normally offer little resistance when being adjusted along the paper table.

In order to clamp the guides against lateral displacement after adjustment, the clips 21 are each provided with an upturned portion 25, which bears against a flat cut-away portion 26 of a rod 27, which, when turned, acts as a cam, bearing down on the portion 25, thereby pressing the rolled portion 23 of the clip tightly against the inner surface of the rolled rim 19 of the paper table. When the rod 27 is again turned to unclamp the guides, so that they may be adjusted to different positions, the cut-away portion 26 of the rod comes opposite the portion 25 of the clip, to permit the rolled portion 23 of the clip to spring away from the bead 19, thereby freeing the clip from the paper table.

It will be seen that the rod 27 may be supported directly by the paper table, therefore obviating the necessity for providing a separate supporting means.

The rod 27 or shaft may be revolubly mounted in flanged collars or bushings 28 fitted snugly in the ends of the beads 19 of the paper table; and it may be held against longitudinal displacement by means of a screw 29 secured in the rod, and with its head 30 bearing against the outside of the collar 28 at one side of the table, and a hub 31 secured to the rod by a pin 32, and bearing against the collar at the other side of the table.

Secured to the hub 31 is a handle 31^a by means of which the rod may be turned, either to clutch or to unclutch the guides.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. In a typewriting machine, the combination with a platen and a paper table therefor having a rolled rim at its rearmost portion, of a lateral guide slidably mounted on said paper table, said guide being mounted on a clip which bears against an invisible portion of the machine, so that the guide will not mar the paper table, said clip being in the form of a normally inactive spring, and means pivotally mounted in bearings in the said rolled rim of the paper table, for expanding said spring against the paper table, so as to hold the lateral guide against movement.

2. In a typewriting machine, the combination with a platen and a paper table therefor having a rolled rim at its rearmost portion, of a lateral guide slidably mounted on said paper table, said guide being mounted on a clip which bears against an invisible portion of the machine, so that the guide will not mar the paper table, said clip being in the form of a normally inactive spring, and means pivotally mounted in bearings in the said rolled rim of the paper table, for expanding said spring against the paper table, so as to hold the lateral guide against movement, said means being mounted so as to permit the clip to be freed from the paper table.

3. In a typewriting machine, the combination with a table or support, of a plurality of guides independently adjustable along the support, and a clamping rod extending along said support and having releasable means for clamping and releasing said guides simultaneously.

4. In a typewriting machine, the combination with a paper table having a rolled rim or bead, of an adjustable paper guide or device fitted within said rolled rim or bead to be supported thereby and extending over said paper table, and a rod extending through said rolled rim or bead to engage said adjustable guide or device, and movable to lock or release said adjustable guide or device.

5. In a typewriting machine, the combination with a paper table having a rolled rim or bead, of an adjustable paper guide or device fitted within said rolled rim or bead to be supported thereby and extending over said paper table, and a rod extending through said rolled rim or bead to engage said adjustable guide or device, and movable to lock or release said adjustable guide or device, said rod having a finger-piece at its projecting end whereby it may be operated.

6. In a typewriting machine, the combination with a platen and a paper-table therefor extending from the introductory side of the platen, and having a rolled rim at the edge remote from the platen, of a lateral paper-guide slidable along said table, a rod within said rolled edge, means within said rolled rim engaging the end of said guide remote from the platen, and means for locking said guide in position by rotating said rod.

7. In a typewriting machine, the combination with a platen and a paper-table

therefor at the introductory side thereof, and having a rolled rim, of a lateral paper-guide slidably mounted on the paper-table and movable across the face thereof, but supported clear of said face at the edge of the table remote from said platen, a rod within said rim, an extension of said guide including a member behind said table, and means for causing said guide to be locked by said extension by rotating said rod.

8. In a typewriting machine, the combination with a platen and a paper-table therefor at the introductory side of said platen, of a pair of lateral paper-guides slidably mounted on the paper-table, but held clear of the surface thereof except at the point adjacent the platen, an extension of each guide, a rolled rim for said table along the edge remote from said platen, means for supporting said extensions of said guides within said rolled rim, and means for simultaneously unlocking and locking said guides at that point.

9. In a typewriting machine, the combination with a platen and a paper-table at the introductory side of said platen, of a rolled rim forming the edge of said paper-table remote from said platen, a lateral guide slidable along said table and engaging said table only at a point concealed by said platen, a rod within said rolled edge, bushings supporting said rod and engaging the ends of said rolled edge, and means for locking said guide by said rod against sliding on said table.

10. In a typewriting machine, the combination with a platen and a paper-table at the introductory side thereof having a rolled rim at its edge remote from the platen, of a lateral guide slidably mounted on said paper-table, a rod within said rolled rim, an extension of said guide holding said guide clear of the table except at its edge which is adjacent the platen, a spring forming part of said guide lying within said rolled edge, and means for rotating said rod to cause said spring to frictionally engage said rolled edge.

11. In a typewriting machine, the combination with a platen and a paper-table at the introductory side thereof having a rolled rim at its edge remote from the platen, of a lateral guide slidably mounted on said paper-table, a rod within said rolled rim, an extension of said guide holding said guide clear of the table except at its edge which is adjacent the platen, a spring forming part of said guide lying within said rolled edge, a cam forming part of said rod, and an extension of said spring engaging said cam and adapted to be pressed thereby, when the rod is rotated, to cause the spring to engage the rolled edge.

12. In a typewriting machine, the combination with a platen and a paper-table extending rearwardly from the introductory side of the platen, the rear edge of said table being rolled to form a hollow rim, of a rod mounted in said rim, bushings on said rod fitting into the ends of said rim to engage the ends of said rim, to hold the rod from sliding, means on the rod coöperating with said bushings for so holding it, paper-guides overlying said table, and means connecting the paper-guides to the rod.

13. In a typewriting machine, the combination with a platen and a paper-table extending rearwardly from the introductory side of the platen, the rear edge of said table being rolled to form a hollow rim, of a rod mounted in said rim, bushings on said rod fitting into the ends of said rim to engage the ends of said rim, to hold the rod from sliding, means on the rod coöperating with said bushings for so holding it, paper-guides overlying said table, and means connecting the paper-guides to the rod, said guides extending over said table and supported free from the face thereof by said rod and resting on said table at their ends near the platen.

14. In a typewriting machine, the combination with a roller platen, of a paper-table at the introductory side thereof, the outer edge of said table being rolled to form a hollow rim, a rod mounted in said rim, means for holding said rod in said rim, comprising bushings, a guide for the lateral edges of a work-sheet, said guide overlying the table, and means to connect the guide to the rod, said connecting means comprising members partly encircling said rod and adapted to engage said hollow rim, and connecting devices attached to said members and guides for holding the latter out of contact with the paper-table except at the edge of said guide adjacent the platen.

15. In a typewriting machine, the combination with a platen and a paper-table at the introductory side of said platen, of a rolled rim for said table at the side remote from the platen, a paper-guide adjustable along said table, a rod within said rim, a spring forming part of said guide lying within said rolled rim and forming part of the supporting means for said guide, a rod extending through said rolled rim, and a cam on said rod adapted to rotate to expand said spring to fit said rolled rim and lock said guide in place.

16. In a typewriting machine, the combination with a roller platen and a paper-table at the introductory side of said platen, of a guide adjustable along said table, a rolled rim forming part of said table, said guide out of contact with the exterior of said rolled rim and having an extension extending within said rolled rim to form a

main support to hold the body of the guide clear of the rim and table, a steadying device engaging the back of the table and forming part of said guide, and a spring distinct from said steadying device and forming part of the guide adapted to forcibly engage said table to lock said guide against shifting.

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Witnesses:
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