April 4, 1950 S. M. RADZYNER 2,502,590

REGISTER

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Fig. 1.

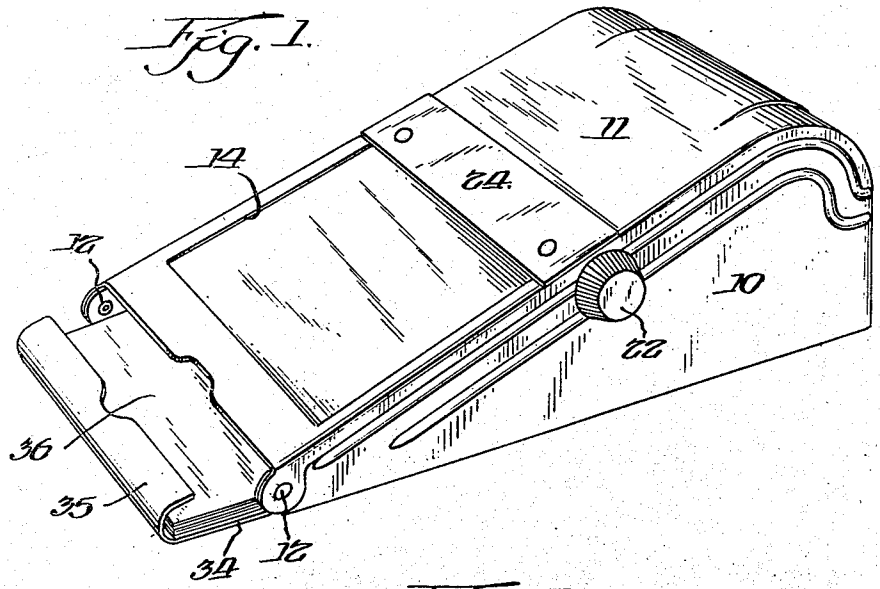


Fig. 5.

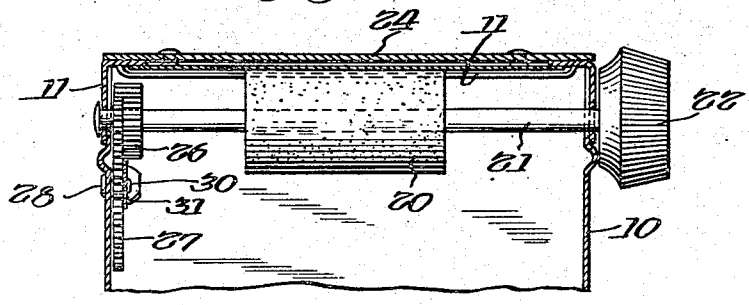
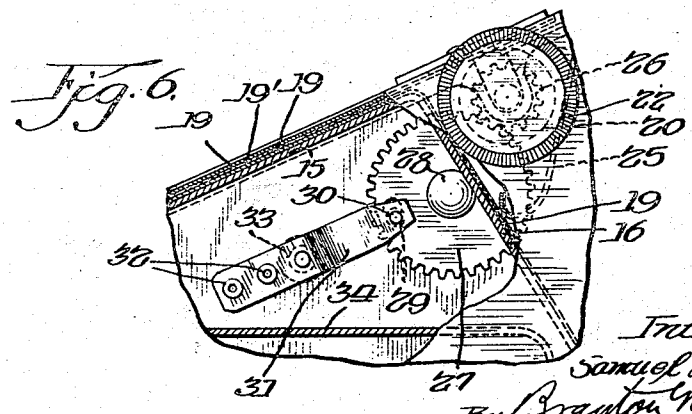


Fig. 6.



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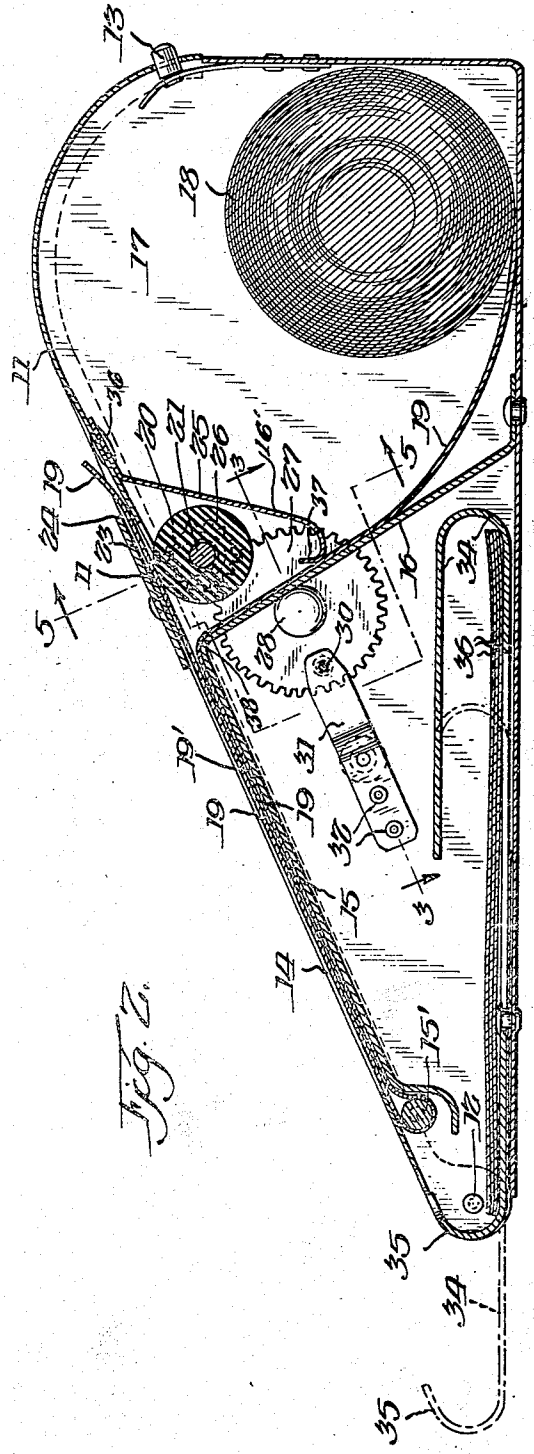


Fig. 2.

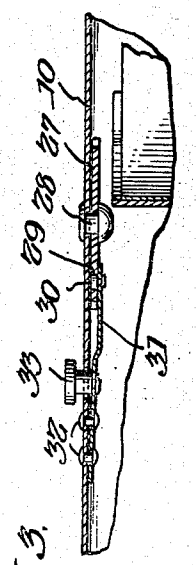


Fig. 3.

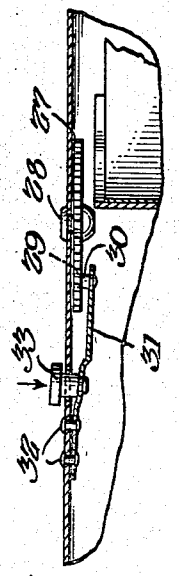


Fig. 4.

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UNITED STATES PATENT OFFICE

2,502,590

REGISTER

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Application October 12, 1945, Serial No. 621,917

3 Claims. (Cl. 282—6)

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The invention relates to improvements in registers and has for its object the provision of an improved device of the character indicated which is of simple construction and highly efficient in use.

Other objects will appear hereinafter.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification and in which—

Figure 1 is a perspective view of a register embodying the invention;

Fig. 2, an enlarged longitudinal section of the same;

Fig. 3, a partial section taken substantially on line 3—3 of Fig. 2;

Fig. 4, a section similar to Fig. 3 but showing the parts in a different relation;

Fig. 5, a section taken substantially on line 5—5 of Fig. 2; and

Fig. 6, a detail interior view of a stop and latch arrangement employed in the construction.

The embodiment of the invention illustrated in the drawings comprises a suitable casing 10, preferably of sheet metal, and provided with an upwardly and rearwardly open sloping top. An upwardly swinging cover member 11 is provided for said casing, being pivoted at 12 to swing upwardly to expose the interior thereof. A releasable latch 13 serves to hold the cover in closed position.

The cover 11 is provided with a writing opening 14 as shown, and a writing table 15 is arranged immediately below said opening and provided with an upper smooth writing surface. Said writing table preferably constitutes part of a partition 16, dividing the casing 10 to provide a rear receptacle 17 adapted and arranged to contain a roll 18 of paper, as best indicated in Fig. 2. The partition 16 is further provided with a friction spring 16' carried by the cover 11 and attached thereto by a suitable rivet 36. The lower, or free end 37 of the spring 16' is adapted to frictionally and yieldably hold the strip 19 so that the eased bend at the juncture 38 of the said partition 16 and the writing table 15 will serve to hold the roll end of the said strip 19 in taut condition, as shown in Fig. 2. The arrangement is such that strip 19 of paper from the roll 18 may be readily extended over the top of the writing table 15 around a guide roller 15' at its lower end, and thence back over said writing table again. A carbon sheet 19' is interposed as indicated, between the two portions of the strip 19 which are thus arranged over said writing table 15, so that any writing on the uppermost of said strip portions will be simultaneously reproduced on the lower of said strip portions by the action of the carbon sheet, as will be readily understood. The end of the strip 19 is extended between a feed roller 20 on a feed shaft 21 and the underside of cover 11, so by manipulation of said feed shaft the said strip 19 may be readily fed over the table 15. The feed shaft 21 is provided with a knurled feed wheel 22 to facilitate such manipulations. Thus strip 19 may be readily fed over said writing table and through an opening 23 in the cover 11, a tear plate 24 being arranged as shown to facilitate the tearing off of the length of strip 19 thus fed from said casing. A guide member 25 is arranged as indicated to prevent tangling of the strip 19 with the feed roller 20 or feed shaft 21, as will be readily understood.

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The feed shaft 21 is provided with a pinion 26 meshing with a stop gear 27 mounted on a stud shaft 28 on the corresponding side of the casing 10. This stop gear 27 is provided with a notch 29 adapted and arranged to receive a pin 30 on the end of a spring-held latch 31 secured to the corresponding casing side by rivets 32. A plunger 33 is arranged as shown on the latch 31 and protruding through an opening in the side of the casing 11 and whereby pin 30 may be readily released from the notch 29, as indicated in Fig. 4, by simply pressing the plunger 33 inwardly. The arrangement is such that feeding operation of the roller 20 to cause the discharge of a length of the strip 19 long enough to include both of the memorandum written thereon, will, at the same time, cause one complete revolution of the stop gear 27. Thus, after a memorandum has been written upon the upper or outer exposed portion of the strip 19, and reproduced on the underlying portion thereof, the stop gear 27 may be released by pressing inwardly on the plunger 33 and the feed shaft 21 manipulated to withdraw just the right length of the strip 19 to include both of said memoranda, whereupon the stop pin 30 will automatically re-engage the notch 29, thus stopping further feeding action after the proper length of strip has thus been fed. In this way all memoranda written upon the exposed surface of the strip 19 will be at once reproduced on the underlying part and the portion of said strip containing both of said memoranda accurately fed from the casing as and when desired. A storage tray 34 is arranged, as indicated, in the lower forward portion of the casing 10 and provided with a lip 35 closing the opening in said casing in which it slides, said tray being provided for the reception of the carbon copies of said memoranda produced as outlined above.

While I have illustrated and described the preferred form of construction for carrying the invention into effect, this is capable of modification and variation without departing from the spirit of the invention. I therefore do not wish to be limited to the precise details disclosed, but desire to avail myself of such variations and modifications as fall within the scope of the appended claims.

I claim:

1. A register comprising a casmg; a partition arranged to divide the interior of said casing into a front compartment, and a rear compartment; a writing table projected into said front compartment; a downwardly and forwardly depending leaf spring in said rear compartment; an upwardly turned free end on said leaf spring arranged in frictionally and yieldably held position, relative to said partition; a curved juncture portion connecting said partition with said writing table; a guide roller transversely arranged at the forward end of said front compartment in upper circumferential alignment with the surface of said table for reversing the direction of movement and bending a portion of a paper in ribbon form back against itself; there being an opening in said casing communicating with said bent portion when in operation.

2. The construction specified in claim 1 in which a manually operable roller and a tear plate are arranged in transverse circumferential alignment rearwardly of said writing table to frictionally engage said bent portion of said ribbon.

3. The construction specified in claim 1, in which a frictional roller is arranged in the upper forward portion of said rear compartment between said partition and said leaf spring.

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