Sept. 19, 1933. J. M. OSTREY 1,927,612

DUPLEX STATIONERY GUIDE

Filed March 18, 1932 3 Sheets-Sheet 1

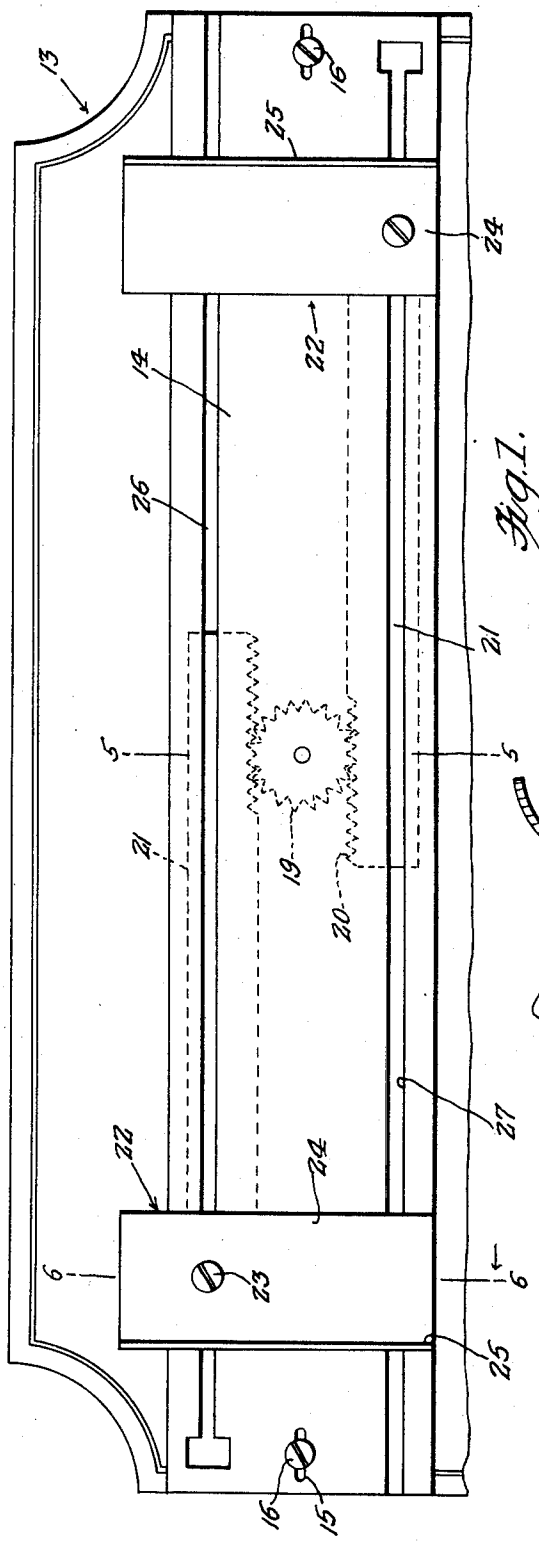


Fig. 1.

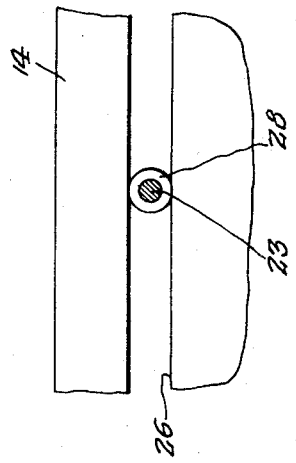


Fig. 7.

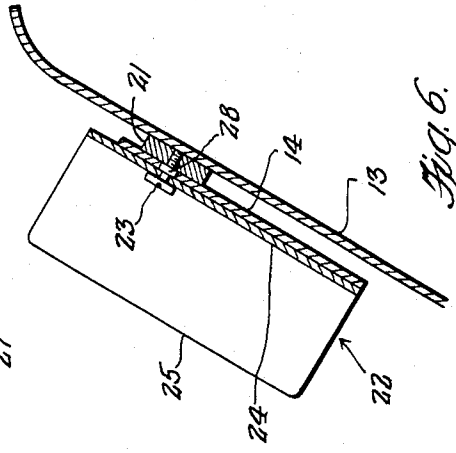


Fig. 6.

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DUPLEX STATIONERY GUIDE

Filed March 18, 1932 3 Sheets-Sheet 2

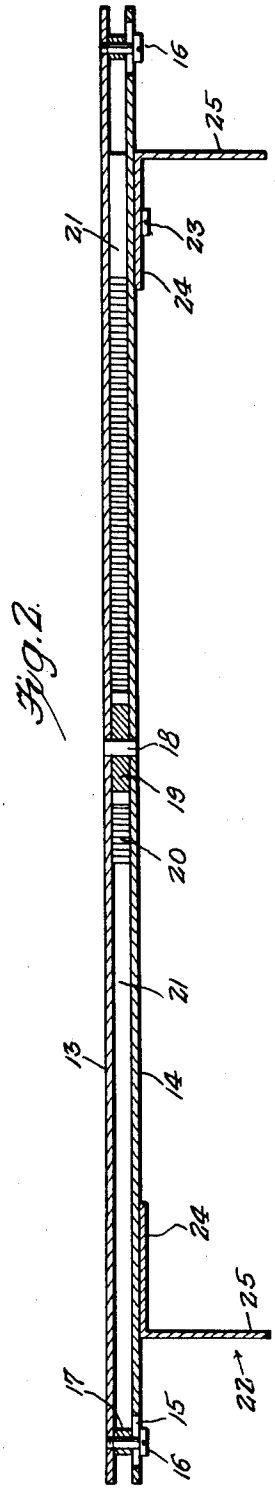


Fig. 2.

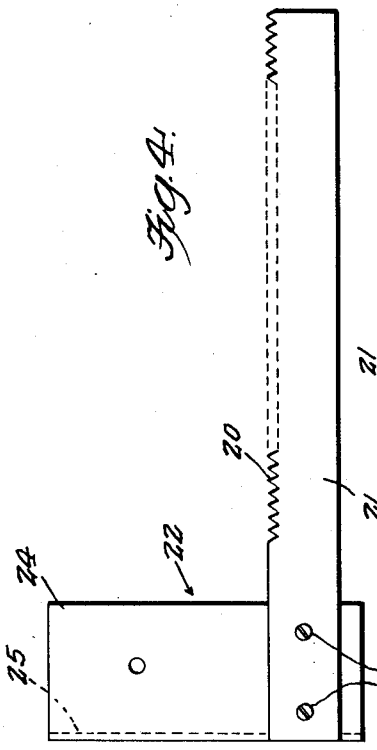


Fig. 4.

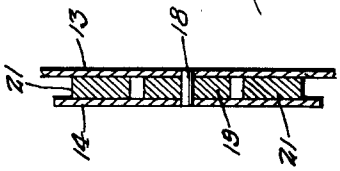


Fig. 5.

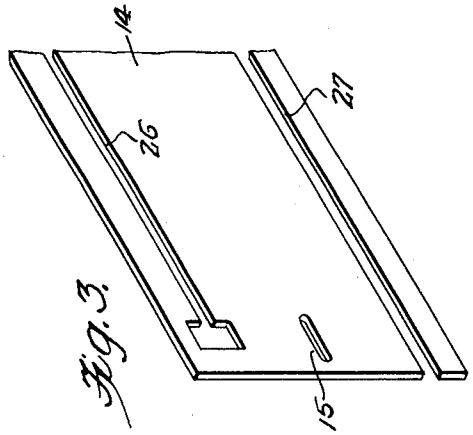


Fig. 3.

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DUPLEX STATIONERY GUIDE

Filed March 18, 1932 3 Sheets-Sheet 3

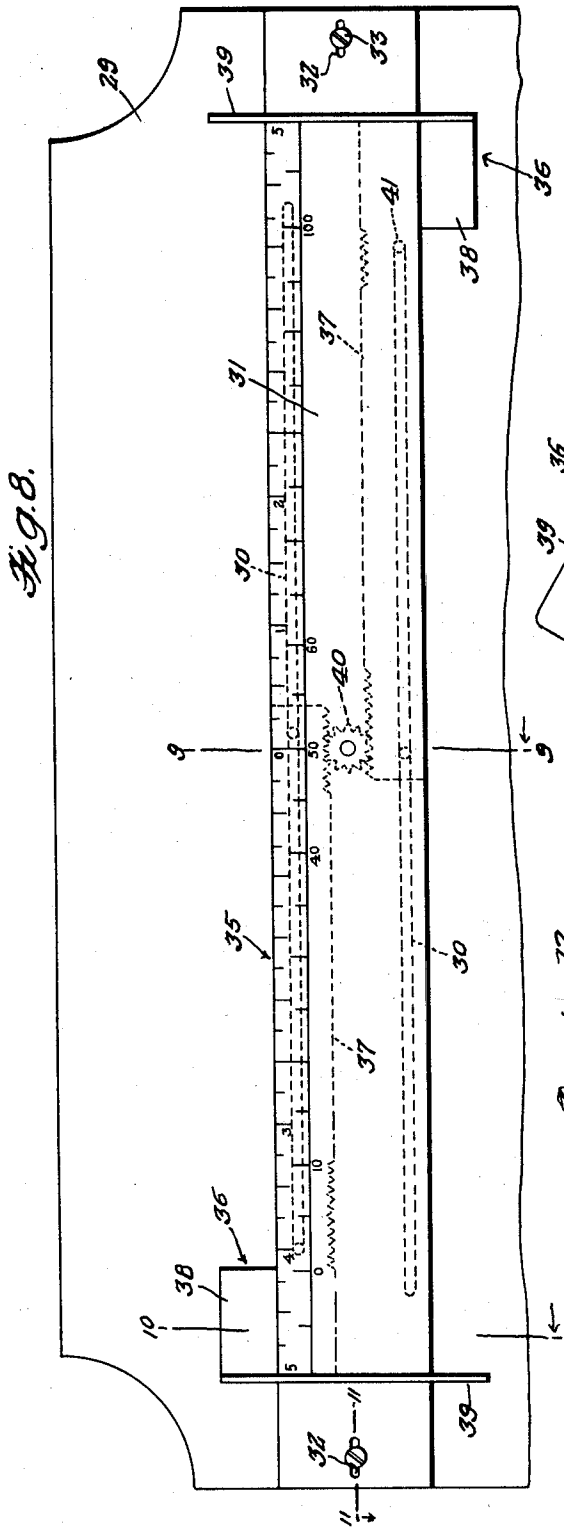


Fig. 8.

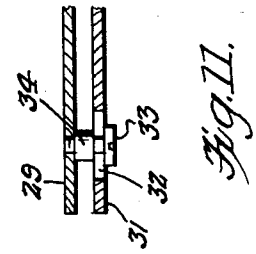


Fig. 11.

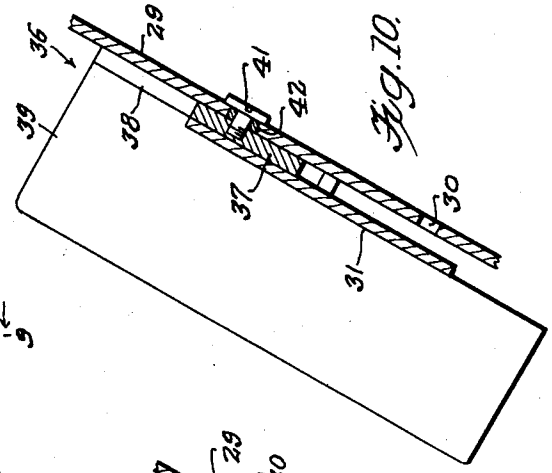


Fig. 10.

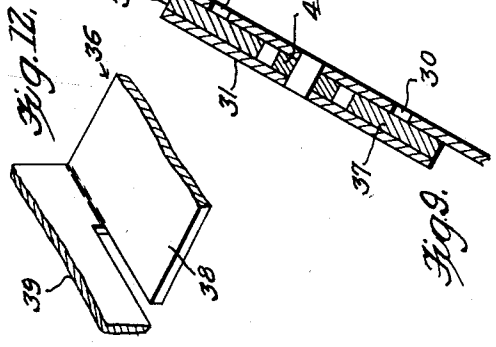


Fig. 9.

Fig. 12.

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UNITED STATES PATENT OFFICE

1,927,612

DUPLEX STATIONERY GUIDE

Joseph M. Ostrey, Calexico, Calif.

Application March 18, 1932. Serial No. 599,806

4 Claims. (Cl. 197—142)

This invention relates to an accessory or appurtenance such as may be conveniently entitled a duplex stationery guide, and it has more explicit reference to a device for use and association with present day typewriters, mimeograph machines and the like for accurately and uniformly guiding and feeding articles of stationery.

For the purpose of a simplified understanding of the invention attention is invited to the fact that the drawings and explanatory description herein utilized disclose an embodiment of the invention which is primarily adapted for use in connection with the customary paper backing plate to expedite feeding of writing paper, bill heads, envelopes and the like, the invention being especially adapted in its present form for use in connection with typewriters of the Underwood and Royal variety.

The purpose of the invention is to provide a simple, economical and practicable device which may be built into the machine at the time of original manufacture, or applied thereto as an attachment without alteration of stock parts, the invention serving as a double acting guide means for both edges of the papers whereby to permit it to be uniformly centered.

Briefly described the invention comprises a relatively fixed support, with or without an indicating scale, applicable to the paper backing plate, together with a pair of duplicate longitudinally spaced units having appropriate guide elements, and an operating connection between said units for adjusting the units simultaneously.

In the accompanying drawings in which like numerals designate like parts throughout the several views:

Figure 1 is a front elevation illustrating one style or form of the invention.

Figure 2 is a longitudinal or horizontal sectional view through the structure seen in Figure 1.

Figure 3 is a perspective view of the outer or cover plate of the attaching means.

Figure 4 is a rear elevational view of one of the movable guide units.

Figure 5 is a section taken approximately on the plane of the line 5—5 of Figure 1.

Figure 6 is a view taken approximately on the plane of the line 6—6 of Figure 1.

Figure 7 is an exaggerated detail view.

Figure 8 is a view similar to Figure 1 showing a different embodiment of the invention.

Figures 9 and 10 are sections on the lines 9—9 and 10—10 respectively of Figure 8.

Figure 11 is a detail section taken approximately on the plane of the line 11—11 of Figure 8, and

Figure 12 is a fragmentary perspective view of an end portion of one of the guide units.

Attention is first directed to Figures 1 to 7 inclusive of the drawings illustrating one form or embodiment of the invention. Essentially the means for attaching and supporting the mechanism for operating the guide unit should comprise a pair of spaced parallel plates one of which may be the front plate and the other the back plate. On typewriters of the Royal and Underwood style there is an inclined paper backing plate and in accordance with my idea I use this as one of the plates of the supporting means and as seen for example in Figure 1 the main or back plate is denoted by the numeral 13 and the companion auxiliary front plate distinguished by the numeral 14. The plate 14 may be comparatively narrow and provided with elongated slot 15 at opposite ends to accommodate the retaining bolt 16. As seen in Figure 2 the bolt goes through the slot and is threaded into a hole in the plate 13 and a spacing washer 17 surrounds the bolt.

Attached to the central portions of the plate is a pivot journal 18 for an idling pinion 19. The teeth of this pinion co-operate in the rack teeth 20 on the associate bar 21 of the relatively movable simultaneously adjusted guide unit 22. Each unit comprises a bar 21 detachably secured by suitable fastenings 23 to the slide flange 24 of the guide member or element. The remaining flange 25 constitutes the guide proper. The plate 14 is provided with upper and lower parallel slots 26, 27 which serve to provide the desired slidable mounting for the unit 22. It will be observed in this connection that the bolts 23 which extend through the slot carry anti-friction collars or rollers 28 (see Figures 6 and 7) which permit the units to ride freely in the slot. The rack bars are so arranged as to permit the teeth thereof to mesh with diametrically opposed sides of the pinion 19. Thus by securing the plate 14 to the plate 13 these plates provide a stationery carrier or mounting for the two guide units. The guide units are operatively connected with the rack and pinion means so that by operating one both units will be simultaneously adjusted for edging the paper, envelope or other article of stationery inserted in the typewriter. It is understood, of course, that instead of using rack and pinion mechanism the pinion may be friction roller frictionally engaging the bars 21, but the principle of operation is the same.

The arrangement illustrated in Figures 8 to 12 inclusive is very much the same so far as principle of construction is concerned and by referring to these figures it will be observed that the main plate 29, which may be the ordinary backing plate of the existing typewriter is provided with upper and lower slots 30. The cover plate 31 has no slot in this instance except the end slot 32 which serves to accommodate the fastening 33 and spacing washers 34 (see Figure 11).

The upper face of the plate 31 is provided with a suitably calibrated scale 35 to expedite paper centering. The guide units instead of being made in two parts are made from single metal stampings and are distinguished by the numeral 36. Each unit includes a horizontal rack bar 37 having an upstanding end portion 38 carrying a forwardly and outwardly projecting guide forming flange 39 which moves longitudinally along the face of the plate 31. This is accomplished through the action of the unitary pinion 40. Generically considered it is obvious that the supporting means comprises inner and outer spaced plates with either one or the other of the plates slotted to accommodate the attaching devices for the guide unit. As seen in Figure 10 the attaching device comprises small bolt 41 having an anti-friction collar or roller 42 riding in the complemental slot of the plates 29. In both forms of the invention the guide units are adjusted in unison through the medium of an operating connection which is preferably in the form of rack and pinion ensemble. Both styles of the invention are well balanced, economical and simple, not likely to get out of order and calculated to fulfill the requirements of an invention of this class in a highly satisfactory manner. In the form of the invention illustrated in Figure 8 having the scale 35 the guides 29 function as indicators for cooperation with the scale digits.

It is thought that the description taken in connection with the drawings will enable a clear understanding of the invention to be had. Therefore, a more lengthy description is thought unnecessary.

While the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

Having thus described my invention, what I claim as new is:

1. In a double acting guide of the class described, a relatively fixed support comprising a pair of spaced parallel attaching plates, a pair of duplicate paper guide units having operating members interposed between said plates, and an operating connection between said members causing said units to be uniformly adjusted in unison.

2. In a double acting guide of the class described, a relatively fixed support comprising a pair of spaced parallel attaching plates, a pair of duplicate guide units having operating members interposed between said plates, and an operating connection between said members causing said units to be uniformly adjusted in unison, one of said plates having a fixed scale with which portions of the guide units slidably cooperate for the purpose specified.

3. In a duplex guide of the class described, a main plate, a companion auxiliary plate having its opposite end portions slotted, fastenings securing said slotted ends of the auxiliary plate to corresponding ends of the main plate, one of said plates being provided with upper and lower guide slots, a pair of duplicate simultaneously operable units, each unit including a guide element extending at right angles forwardly beyond the auxiliary plate and having a rack bar interposed between said plates, retention and guiding means carried by the respective rack bars and cooperable with the adjacent slots, and a centrally located freely rotatable pinion arranged between the toothed portions of the rack bars to join said bars together in affording simultaneous adjustment of said units.

4. A double acting guide for typewriters comprising a main back plate, an auxiliary front plate adjustably secured to the back plate in spaced parallelism and having its upper edge portion fashioned to provide a visible indicating scale, said back plate being provided with upper and lower guide slots, a pair of duplicate right and left guide units, each unit including a toothed rack bar having a right angularly disposed flange at one end constituting a guide element, the guide element being in movable contact with the front face of said front plate for cooperation with the scale, the respective rack bars being interposed between said plates and joined by anti-friction guiding and sliding means with the adjacent slots, together with a centrally located pinion arranged between and cooperable simultaneously with the teeth of the respective rack bars for simultaneous operation of said units.

JOSEPH M. OSTREY.