

Nov. 13, 1951

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2,574,575

PAPER STORAGE AND PAGE END INDICATING ATTACHMENT FOR TYPEWRITERS

Filed July 29, 1947

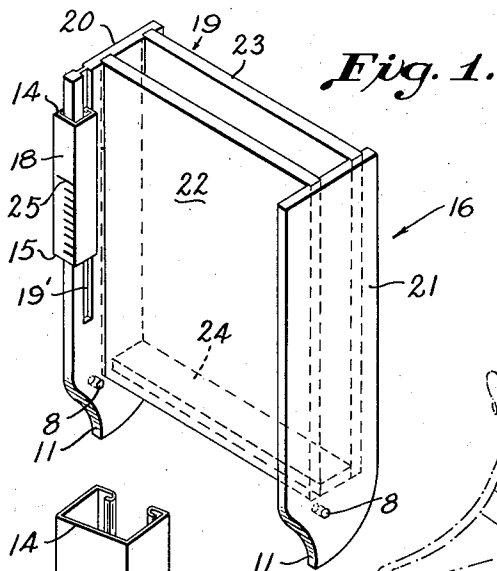


Fig. 1.

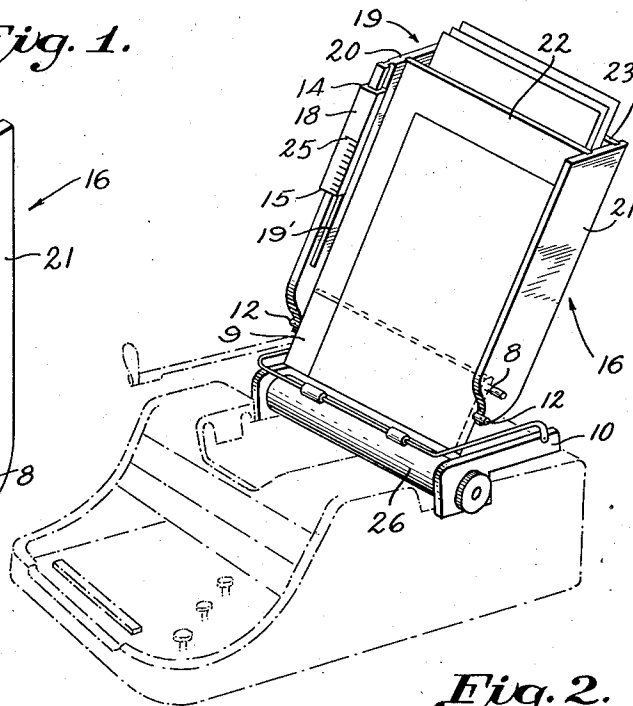


Fig. 2.

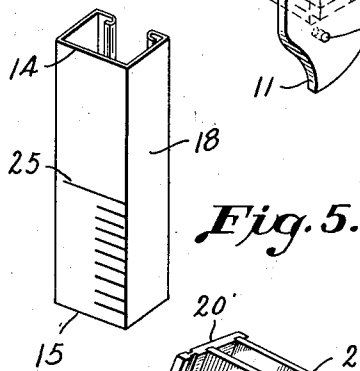


Fig. 5.

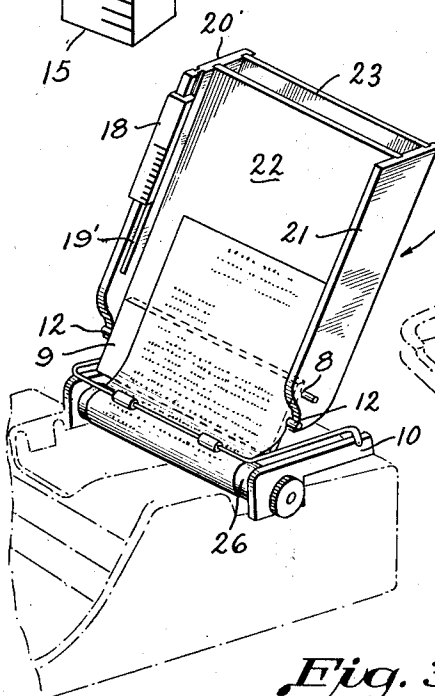


Fig. 3.

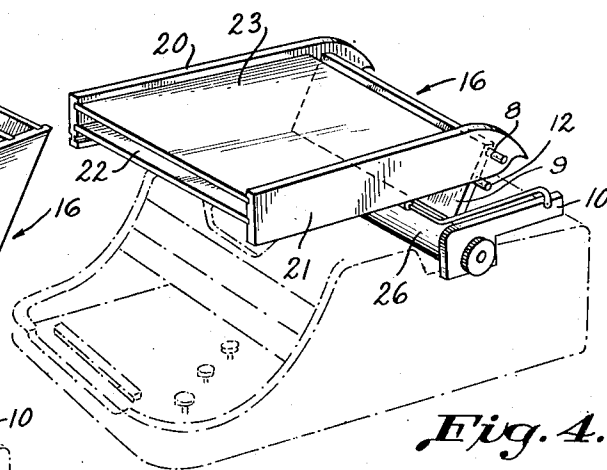


Fig. 4.

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2,574,575

PAPER STORAGE AND PAGE END INDICATING ATTACHMENT FOR TYPEWRITERS

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Application July 29, 1947, Serial No. 764,408

7 Claims. (Cl. 197—189)

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This invention relates to improvements in paper storage and page end indicating attachment for typewriters.

A general object of the invention is to provide a unit attachable to the horizontally sliding carriage of a typewriter to enable the operator of the typewriter to determine the number of typing lines remaining on a sheet of material being typed on in the typewriter.

Another general object of the invention is to provide an adjustable sliding gauge, mounted on the horizontally sliding carriage of a typewriter, in such a manner that the operator by adjusting the gauge when placing a sheet of material in the typewriter for typing on, may discern by glancing at the gauge, as the sheet of material being typed on emerges from the typewriter, how many lines of typing space remain on the sheet of material being typed on.

A further object of the invention is to provide, in conjunction with the gauge for determining the amount of space remaining on the sheet being typed on, a box like unit mounted on the horizontally sliding carriage of the typewriter, said box like unit supplying the track for the gauge to move on.

A further object of the invention is to provide, in conjunction with the sliding gauge for determining the amount of space remaining on the sheet of material being typed on, a box like unit mounted on the horizontally sliding carriage of the typewriter, said box like unit forming a convenient bin for the storage of paper and envelopes.

A further object of the invention is to provide, in conjunction with the gauge for determining the amount of space remaining on the sheet being typed on, a box like unit mounted on the horizontally sliding carriage of the typewriter, said box like unit forming a backrest for material emerging from the typewriter after being typed on, so that the gauge may be used to better advantage to determine the amount of space remaining on the sheet being typed on, and so the operator of the typewriter may see that portion of the sheet that has been typed on.

A further object of the invention is to provide, in conjunction with the gauge for determining the amount of space remaining on the sheet being typed on, a box like unit mounted on the horizontally sliding carriage of a typewriter, said box like unit being foldable over the top of the typewriter, in such a manner as to form a cover and desk space, and compact enough that a

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regular protective typewriter cover may be placed over the typewriter.

With the above and other objects in view, the invention consists of a simple box like unit to be attached to the horizontally sliding carriage of a typewriter, said box like unit having a front, back, bottom and two side sections, but open at the top, said side sections extending forward of the front section to allow room for a grooved track on which the sliding gauge moves, and said side sections extending below the bottom section to form arms for attachment to the ends of the horizontally sliding carriage of the typewriter; a gauge that is adjustable by hand to move on the grooved side piece of the box like unit; a backrest formed by the front side of the box like unit so that material emerging from the typewriter may move upwardly thereagainst; a bin for the storage of paper and envelopes, said bin being formed by the front, back, bottom, and side sections of the unit; and the entire unit being foldable so that it may be folded compactly over the top of the typewriter to form a cover and desk space.

Fig. 1 is a perspective view of the unit before it is attached to a typewriter. The vertical sliding gauge is in place on the left side of the unit.

Fig. 2 is a perspective view of the unit in place on the horizontally sliding carriage of a typewriter, with paper in the storage bin section, and a sheet of paper in position to engage the typewriter roller. The vertical sliding gauge is set so that the top edge of the gauge is horizontally opposite the topmost edge of the paper being fed into the typewriter.

Fig. 3 is a perspective view of the unit in place on the horizontally sliding carriage of a typewriter after the greater portion of the paper being typed on has emerged from the roller, and moved up against the front section of the unit to a point where the topmost edge of the paper that has emerged is horizontally opposite the lowest marker on the vertically sliding gauge. At this point there are ten lines of typing space remaining on the sheet, as indicated by the ten horizontal lines or markers on the gauge. In the drawing shown the gauge has only ten horizontal lines or markers, but gauges of varying length may be used, thereby increasing or decreasing the scope of the gauge to determine the amount of space remaining on the sheet being typed. As the paper is typed on and emerges further from the roller, the topmost edge of the paper reaches the next to the bottom marker

when nine lines of typing space remain on the sheet. When the paper emerges after being typed on to a point where the topmost edge of the paper is horizontally opposite the topmost horizontal line or marker the operator of the typewriter is typing on the last line available on the sheet before the sheet frees itself from the roller.

Fig. 4 is a perspective view of the invention in place on the horizontally sliding carriage of a typewriter, and folded over the top of the typewriter to form a cover and desk space.

Fig. 5 is a perspective view of the vertical sliding gauge used to determine the number of typing lines remaining on a sheet of material being typed on in the typewriter.

Referring to the drawings the numeral 16 is used to designate the invention in general. The numeral 18 designates the vertical sliding gauge which is formed of metal, plastic or other semi-rigid material in such a manner as to engage frictionally the grooves 19' on the front portion of the side of the box like unit comprising the larger part of the invention and designated by numeral 19. The box like unit 19 is comprised of two side pieces designated by numerals 20 and 21, a front section designated by numeral 22, a back section designated by numeral 23, and a bottom section designated by numeral 24. One of the side sections, in this case 20, is grooved for gauge 18 to slide vertically thereon, the gauge being held in position to engage the grooves frictionally by spring tension and being yieldable so that it may be adjusted by hand to any vertical position in the grooves. Side sections 20 and 21 have holes, designated by numeral 8, for attachment of the unit by bolts or rivets to the ends of top piece 9 of the sliding carriage 10 of the typewriter, so that unit 16 may move back and forth horizontally with the horizontally sliding typewriter carriage 10. This does not mean that other methods of attaching unit 16 to sliding carriage 10 may not be used in conjunction with this invention and this invention takes this into consideration. Side pieces 20 and 21 are so formed that their lower ends, designated by numeral 11, are employed as stops against bolts, designated as numeral 12, inserted in the ends of top section 9 of the sliding carriage 10, so that the unit 16 moves back only far enough when in upright position so that front section 22 is flush with and at the same angle as top section 9 of the sliding carriage of the typewriter. When the unit 16 is folded over to make a desk top and cover, bolts 12 form stops to hold unit 16 in a horizontal position, as indicated in Fig. 4.

After the unit 16 has been fastened to the horizontally sliding carriage 10 the operator of the typewriter places the material to be typed on against front section 22 as indicated in Fig. 2 in position to start engaging the typewriter roller, and sets gauge 18 vertically so that the topmost edge of the sheet being inserted is opposite horizontally to the top edge, designated as numeral 14, of the gauge. As the material being inserted is engaged by the roller, is typed on, and emerges, it moves upward and backward against front section 22 of unit 16 in such a manner that the portion of material typed on is easily discernable by the operator. When the sheet of material has been typed on and emerges from the typewriter roller, designated by numeral 26, and is moved upward against front section 22 far enough the topmost edge of the sheet reaches a position hori-

izontally opposite the lowest marker or horizontal line, designated by numeral 15, of gauge 18. At this point the operator can see that there are as many lines of typing space remaining on the sheet of material being typed on as there are additional horizontal lines or markers on the gauge 18. This is illustrated by Fig. 3. The markers or horizontal lines on the gauge 18 are so spaced that each marker represents one line of typing space as the top edge of the material being typed on moves opposite them horizontally.

Gauge 18 is so made that the space between the top edge 14 of the gauge and the top marker, designated as numeral 25, of the gauge is equal to the amount of space the typewriter roller 26 takes up from the material being typed on as the material goes over roller 26 and back up against back rest 22. With typewriters having a small roller 26 the space between 14 and 25 would naturally be smaller than with a typewriter having a larger roller 26.

It can be seen from the foregoing description of unit 16 that this invention has great utility for an operator of a typewriter. The invention enables the operator to leave room, at the bottom of the sheet being typed on, for a signature or ending, and acquaints the operator when nearing the bottom of the sheet being typed on before the sheet frees itself from the typewriter roller. The invention has great additional utility in that it forms a convenient bin for the storage of paper and envelopes for use in the typewriter, forms a backrest for the sheet of material emerging from the typewriter, so that the operator may see that portion of the sheet that has been typed on, and by folding compactly over the top of the typewriter forms a cover and desk space on the top of the typewriter.

What is claimed as the invention is:

1. The combination with a typewriter of a box-like storage bin for paper and envelopes mounted on the horizontally sliding carriage of the typewriter and an adjustable vertically sliding gauge mounted to operate frictionally on one side of said bin for the purpose of determining the amount of space remaining on a sheet of material being type on in the typewriter.

2. The combination with a typewriter of an adjustable sliding gauge for the purpose of determining the number of typing lines remaining on a sheet of material being typed on in the typewriter, and a box-like unit on which said gauge is mounted, said box-like unit having a storage space for paper and envelopes, and forming a back rest of sufficient height to enable the material emerging from the typewriter to move upwardly thereagainst so that the operator may use the sliding gauge to advantage in determining the amount of space remaining on the sheet emerging from the typewriter, and to also enable the operator to see clearly that portion of the material that has been typed on and emerged from the typewriter roller, the entire unit being mounted on the horizontally sliding carriage of the typewriter.

3. The combination with a typewriter of a box-like storage bin for paper and envelopes mounted on the horizontally sliding carriage of the typewriter, and an adjustable vertically sliding gauge mounted to operate frictionally on one side of said bin for the purpose of determining the amount of space remaining on a sheet of material being typed on in the typewriter, said storage bin forming a back rest for paper or material emerging from the typewriter to move up-

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wardly thereagainst, and being pivotally mounted on the horizontally sliding carriage of the typewriter so that it also forms a foldable cover and desk space over the top of the typewriter.

4. The combination with a typewriter of a box-like unit having an adjustable sliding gauge mounted on one side thereof, said gauge being for the purpose of determining for the operator of the typewriter how many lines of typing space remain on the sheet of material being typed on, said box-like unit having storage space for paper and envelopes and forming a back rest for material emerging from the typewriter after being typed on, and being pivotally mounted so that it may be folded over the top of the typewriter to form a cover or desk space, and the complete unit comprising the foregoing being mounted on the horizontally sliding carriage of a typewriter so that the complete unit moves back and forth horizontally with the horizontally sliding carriage of the typewriter.

5. The combination with a typewriter of a box-like storage bin for paper and envelopes, said bin being mounted on the horizontally sliding carriage of the typewriter and having an adjustable sliding gauge mounted thereon, said gauge being adjustable to move in a semi-vertical position on the bin for the purpose of determining for the operator of the typewriter how many

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typing lines remain on the sheet of material being typed on in the typewriter.

6. In combination with the movable carriage of a typewriter, a stationary receptacle carried thereby and having a face portion along which a typed sheet advances and a line and page end gauge and indicator adjustably carried by said receptacle in juxtaposition to the face portion thereof.

7. The combination with the movable carriage of a typewriter, of a stationary bin mounted thereon and having a plane face portion to engage and permit upward movement of a sheet emerging from the typewriter during operation of the latter, and a gauge adjustably movably associated with said bin to indicate the amount of space remaining on the sheet emerging from the typewriter.

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