June 4, 1929. J. LUMYUK 1,715,611

PAPER STRIPPER FOR MULTIGRAPHS

Filed April 17, 1928

Fig. 1.

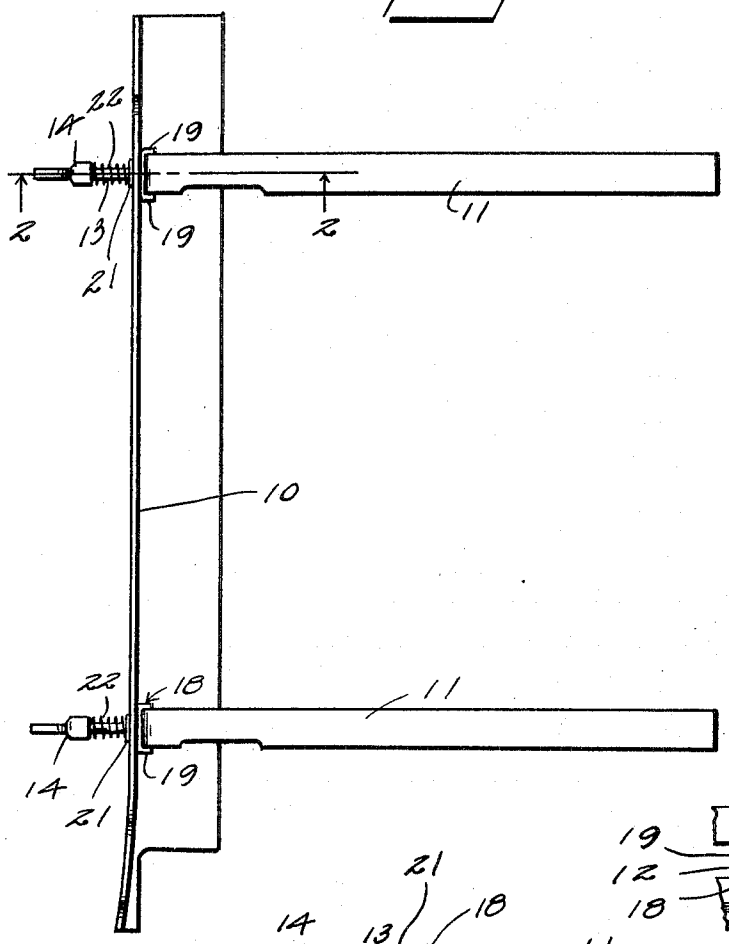


Fig. 2.

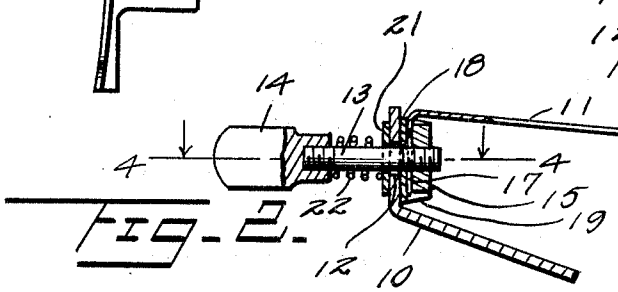


Fig. 3.

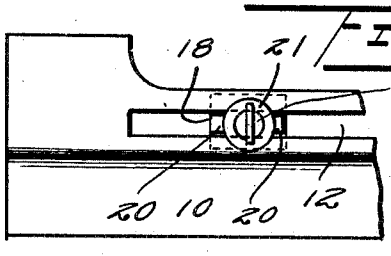


Fig. 5.

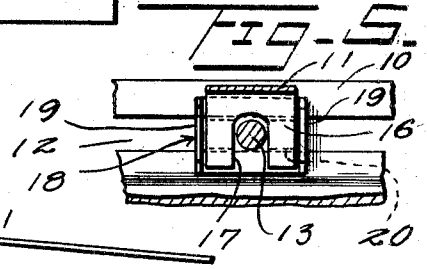
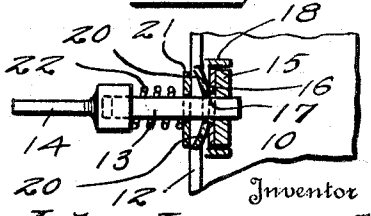


Fig. 4.



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UNITED STATES PATENT OFFICE.

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PAPER STRIPPER FOR MULTIGRAPHS.

Application filed April 17, 1928. Serial No. 270,739.

This invention relates to paper strippers for multigraphs and more particularly to a means for mounting these paper strippers, so that they may be readily shifted to adjusted positions without the use of tools or other accessories.

A further and more specific object of the invention is to produce a spring clamping device for holding the paper strippers and multigraphing machines in adjusted positions, so that these paper strippers may be readily shifted to a new position.

These and other objects I attain by the construction shown in the accompanying drawing, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a plan view of the paper shield and strippers of a multigraph machine in which the strippers are mounted in accordance with my invention:

Figure 2 is a vertical sectional view on the line 2—2 of Figure 1;

Figure 3 is a front elevation of the mounting;

Figure 4 is a section on the line 4—4 of Figure 2;

Figure 5 is a detail sectional view showing the manner of engaging the stripper with the nut and retainer.

Referring now more particularly to the drawing, the numeral 10 generally designates the paper shield of a multigraph machine and 11 the strippers carried thereby. These paper guide bars have longitudinally extending slots 12 through which the securing elements for the paper strippers are directed, so that these strippers may be adjusted transversely to align with the margin of the sheets which are to be removed thereby.

In accordance with my invention, I employ a securing element in the form of a short shaft 13 having at its outer end a head 14 in the form of a butterfly nut threaded upon the shaft. The inner end of the shaft is threaded for engagement with a nut 15 which may be the nut ordinarily employed for holding the stripper in position. The stripper in its normal construction has an angular end portion 16, which is slotted, as at 17, for the passage of the securing element and is arranged between the outer face of the nut and the inner face of a combined lock nut and shield 18 in the form of a plate having rearwardly directed flanges 19 engaging the ends of the nut and outwardly extending tangs 20 engaging in the slot 12 to prevent displacement of the shield and nut.

Upon the shaft 13 at the outer face of the bar is arranged a washer 21 and surrounding the shaft between this washer and the head 14 is a spring 22 which constantly urges the washer 21 into engagement with the bar 10, so that the bar is clamped between the element 16 and the washer while the downturned end portion 16 of the stripper is clamped between the nut and the rear face of the element 16. It will be obvious that the stripper may be readily adjusted by simply shifting the same longitudinally in the slot and will be held in any desired adjusted position in which it may be left.

If, for any reason, it is desired that the stripper be removed as, for example, for replacement, this may be very readily accomplished by simply forcing inwardly upon the shaft 13 against the action of the spring 22 when the stripper will be released and may be very readily withdrawn.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

1. In a stripper mounting for multigraphs, a paper shield having longitudinally extending slots, a shaft directed through each slot and having at its outer end a head and at its inner end a nut confronting the inner face of the bar, the stripper having a slotted angular end portion straddling the shaft between the nut and the bar, and a spring upon the shaft between the bar and head of the shaft constantly urging the shaft outwardly.

2. In a stripper mounting for multigraphs, a paper shield having longitudinally extending slots, a shaft directed through each slot and having at its outer end a head and at its inner end a nut confronting the inner face of the bar, the stripper having a slotted angular end portion straddling the shaft between the nut and the bar, a spring upon the shaft between the bar and head of the shaft constantly urging the shaft outwardly,

and plates applied to the shaft between the angular end portion of the stripper and the bar and having rearwardly directed portions engaging the end faces of the nuts.

3. In a stripper mounting for multigraphs, a paper shield having longitudinally extending slots, a shaft directed through each slot and having at its outer end a head and at its inner end a nut confronting the inner face of the bar, the stripper having a slotted angular end portion straddling the shaft between the nut and the bar, a spring upon the shaft between the bar and head of the shaft constantly urging the shaft outwardly, plates applied to the shaft between the angular end portion of the stripper and the bar and having rearwardly directed portions engaging the end faces of the nuts, and forwardly extending portions operating in the slot of the paper shield.

4. In a stripper mounting for multigraphs, a paper shield having longitudinally extending slot, a shaft directed through each slot and having at its outer end a head and at its inner end a nut confronting the inner face of the bar, the stripper having a slotted angular end portion straddling the shaft between the nut and the bar, a spring upon the shaft between the bar and head of the shaft constantly urging the shaft outwardly, and a washer abutting the front face of the bar and against which the inner end of the spring engages.

5. In a stripper mounting for multigraphs, a paper shield having longitudinally extending slots, a shaft directed through each slot and having at its outer end a head and ats its inner end a nut confronting the inner face of the bar, the stripper having a slotted angular end portion straddling the shaft between the nut and the bar, a spring upon the shaft between the bar and head of the shaft constantly urging the shaft outwardly, plates applied to the shaft between the angular end portion of the stripper and the bar and having rearwardly directed portions engaging the end faces of the nuts, and a washer abutting the front face of the bar and against which the inner end of the spring engages.

In testimony whereof I hereunto affix my signature.

JOHN LUMYUK.