

Feb. 23, 1926.

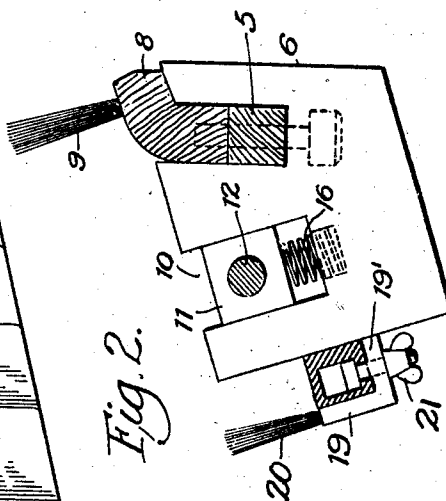
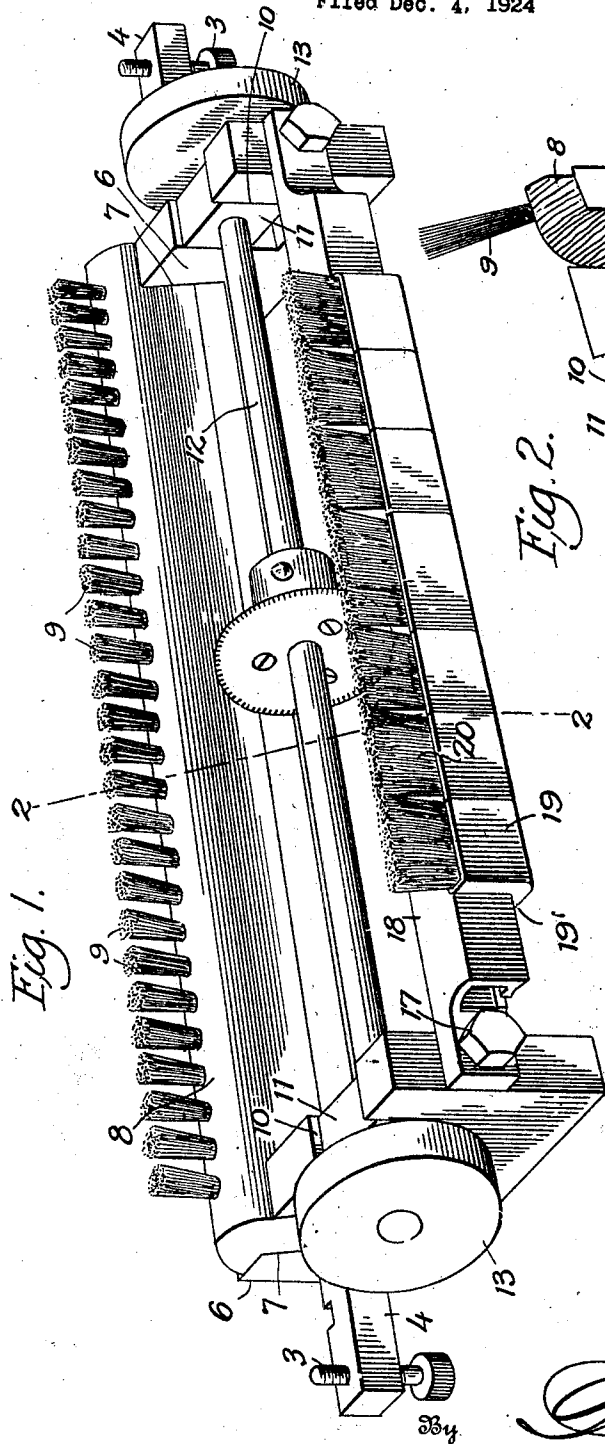
E. G. MYOVER

1,574,633

PRINTING PRESS ATTACHMENT

Filed Dec. 4, 1924

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 3.

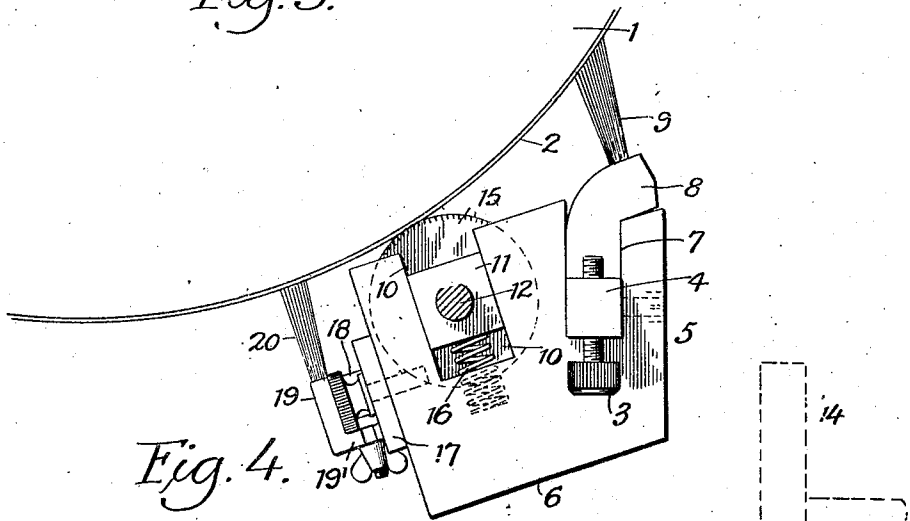


Fig. 4.

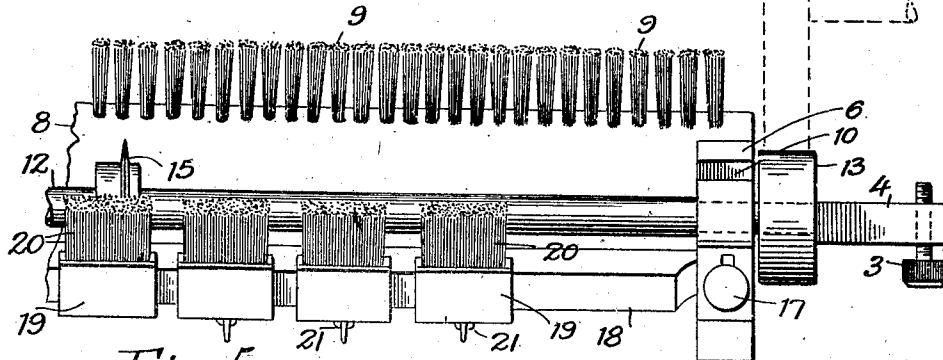
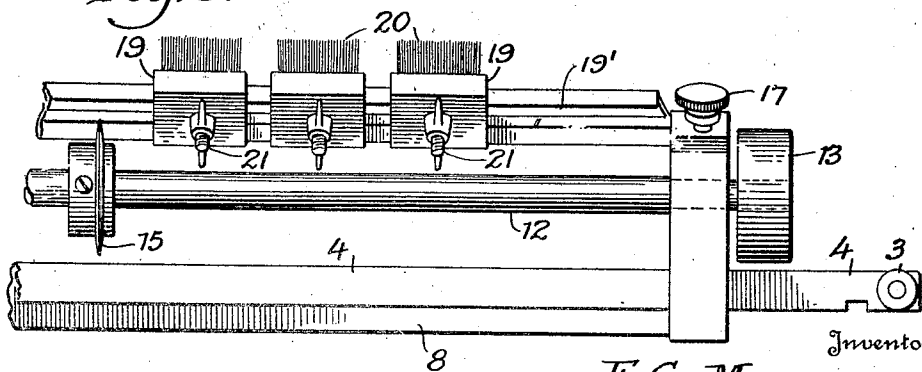


Fig. 5.



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UNITED STATES PATENT OFFICE.

ELIJAH GUY MYOVER, OF INDEPENDENCE, KANSAS.

PRINTING-PRESS ATTACHMENT.

Application filed December 4, 1924. Serial No. 753,884.

To all whom it may concern:

Be it known that I, ELIJAH GUY MYOVER, a resident of Independence, in the county of Montgomery and State of Kansas, a citizen of the United States, have invented certain new and useful Improvements in Printing-Press Attachments, of which the following is a specification.

My invention relates to improvements in printing-press attachments, and refers particularly to an attachment for perforating the paper while it is being printed, or in its passage from the paper feeding cylinder of a printing press, although the use of my attachment is not limited to a printing press, as the improvement might be used effectively and practically upon other classes of machines.

One object of my invention is the provision of an attachment which may be applied with ease and facility and which will perform the perforating operation in a perfect manner as the paper is fed from the roll, or being printed.

Another object of my invention is the provision of an attachment which will hold the paper in proper place against the surface of the roll to insure perfect and aligned perforation.

Another object of my invention is the provision of an attachment which can be instantly adjusted to suit conditions and which will make a single perforation, or by the use of a number of perforating members, make a series of lines of perforations.

Another object of my invention is the provision of a machine of the character stated which will be composed of few parts to insure simplicity, durability and strength; which will not occupy much space; which can be made at a very low price, and which generally will have all the requisites to insure a practical, desirable and efficient attachment for the purpose intended.

With these objects in view my invention consists of a perforating attachment embodying novel features of construction and combination of parts for service, substantially as described and claimed herein, and as shown in the accompanying drawings, in which:

Figure 1 represents a perspective view of a perforating attachment constructed in accordance with and embodying my improvements.

Figure 2 represents a sectional view on line 2—2 of Figure 1.

Figure 3 represents an end view of the attachment shown in position it assumes in connection with the paper feeding roll or impression cylinder of a printing press.

Figure 4 represents a view on an enlarged scale in front elevation of a portion of the attachment, and

Figure 5 represents a bottom plan view thereof.

Referring by numeral to the drawings, in which the same numerals of reference are used to denote the same parts in all the views:

The numeral 1 designates a portion of the paper feeding roll or impression cylinder of a printing press carrying the paper 2, which is to be perforated, although the attachment may be used in any situation where it would perform its functions in an efficient manner.

The attachment is applied to the machine at the desired location by means of the screws 3, on the arms 4, of the frame 5, which carries the extensions 6, formed at their inner ends with the inclined seats 7, for the inner brush carrying frame 8, having mounted rigidly therein the series of brushes 9, adapted to bear against the paper. The said extensions 6, are further provided with the intermediate angular bearings 10, for the angular boxes 11, in which is mounted the shaft 12, carrying at each end a roller 13, which receive rotation from a driving friction wheel 14, and said shaft has adjustably disposed thereon the toothed perforating wheel 15, which cuts a line of perforations on the paper, and is held against the paper by means of the springs 16, which are seated in bearing 10, and engage the boxes 11, as shown in Figure 3.

To the outer face of the extensions 6, is secured by fastenings 17, the under kerfed rail 18, in which fit the hooked lower ends 19', of the brush holding members 19, carrying the brushes 20, and said brush holding members are secured at any desired longitudinal place upon said rail by headed thumb adjusting fastenings 21, as most clearly found in Figure 2.

It will be noted that the attachment can be easily and cheaply applied and will prove a great time and labor saving device and will prove highly efficient and practical.

An important feature of my invention resides in the mounting in the frame the perforating means intermediate of the upper and lower set of brushes which cause the brushes
5 to bear firmly, smoothly and uniformly upon the roll to obtain the best possible results.

I claim:

1. In combination with a paper carrying roller, means for retaining the paper against
10 said roller, and means for forming a line of perforations in said paper while traveling, said means consisting of brushes bearing against the paper and an intermediate perforating device.

15 2. In combination with a paper carrying roller and the paper thereon, a frame arranged adjacent to said roller, a series of brushes bearing on said paper, and a perforating mechanism carried by said frame and
20 disposed between said brushes, said perforating mechanism being adjustable and resilient with reference to the paper holding brushes.

25 3. The attachment herein described, consisting of a frame adapted to be applied adjacent the paper feeding roller and its charge of paper, a brush holding head secured in said frame and carrying brushes, a rail secured to the frame, a series of brush
30 holding elements adjustably mounted on said rail, brushes in said elements, a shaft mounted in cushioned relation to said roller

and paper and between said brushes, and perforating means on said shaft.

4. In combination with a paper support- 35 ing means, a frame arranged parallel therewith, a series of brushes mounted in the frame, and a perforating means carried by the frame and arranged between said series of brushes, said perforating means being re- 40 siliently mounted in the frame.

5. In combination with a paper support- ing means, a frame arranged parallel therewith, a series of brushes mounted in the frame, and a perforating means carried by 45 the frame and arranged between said series of brushes, said perforating means being adjustable in its mounting.

6. In combination with a paper support- ing means, a frame, brushes carried by said 50 frame, a shaft bearing in said frame between the brushes, a roller carried by said shaft, a roller in frictional engagement with said roller to impart rotation to said shaft, and perforating means carried by said shaft. 55

7. In combination with a paper support- ing means, a frame, brush holding means carried by said frame, brushes carried by said holding means and an adjustable per- 60 forating means resiliently mounted between said brush holding means.

In testimony whereof I hereunto affix my signature.

ELIJAH GUY MYOVER.