April 10, 1928. 1,665,444

S. E. CHAPMAN

PAPER FEED AND CUTTING MECHANISM

Filed May 9, 1927 2 Sheets-Sheet 1

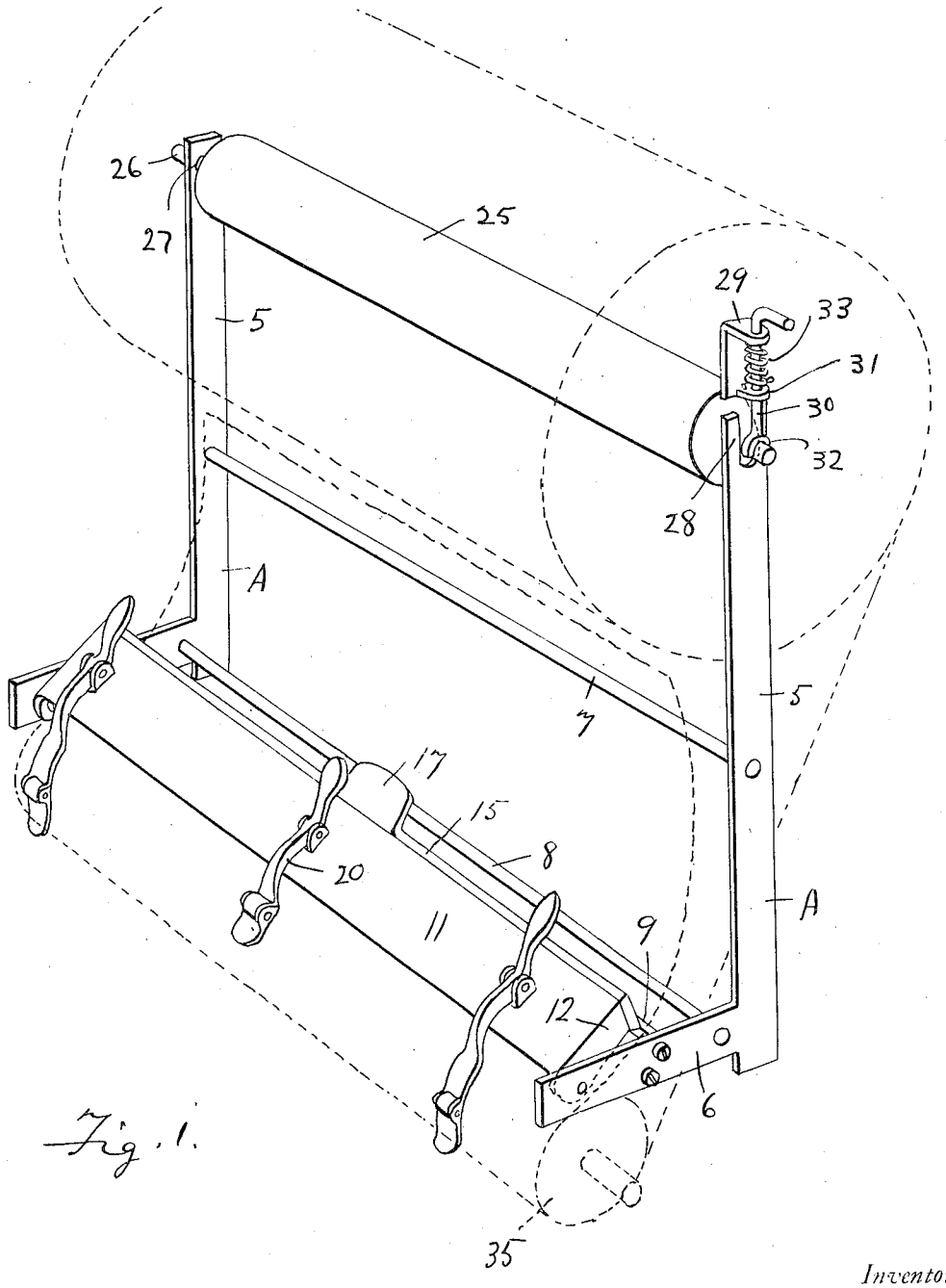


Fig. 1.

Inventor

Samuel E. Chapman

By Clarence A. O'Brien

Attorney

April 10, 1928. 1,665,444

S. E. CHAPMAN

PAPER FEED AND CUTTING MECHANISM

Filed May 9, 1927 2 Sheets-Sheet 2

Fig. 2.

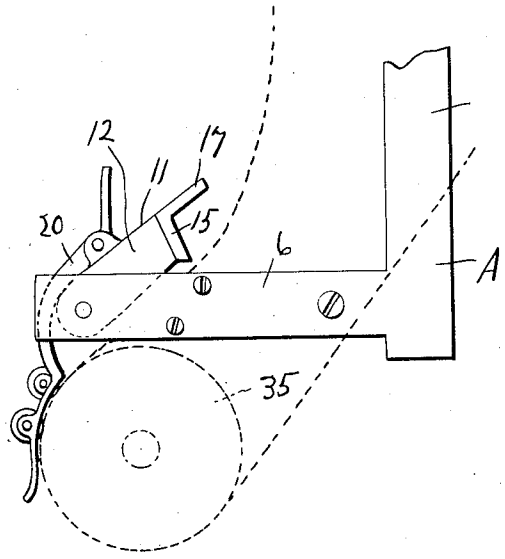
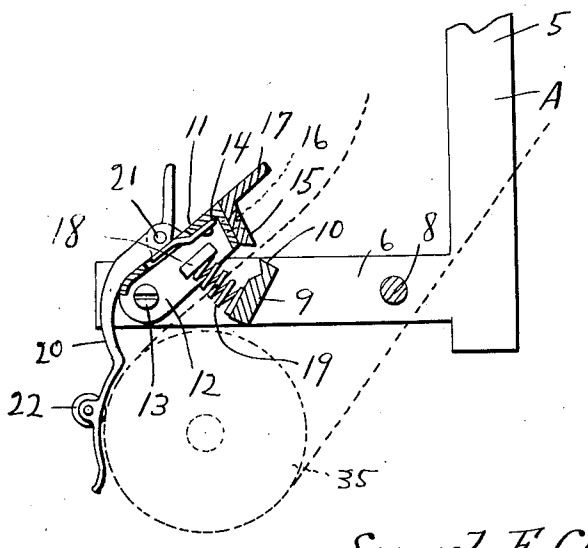


Fig. 3.



Inventor

Samuel E. Chapman

By Clarence A. O'Brien

Attorney

Patented Apr. 10, 1928. 1,665,444

UNITED STATES PATENT OFFICE.

SAMUEL E. CHAPMAN, OF ONTARIO, OREGON.

PAPER FEED AND CUTTING MECHANISM.

Application filed May 9, 1927. Serial No. 190,123.

The present invention relates to means for manipulating the record paper as it is supplied to and is printed upon by typewriting machines and automatic telegraphic machines and the like, when said paper is in the form of a continuous strip stored on rolls, or in a single roll.

The important object of the invention is to provide a simple and effective cutting means associated with the platen and platen carriage of the machine and adapted to readily permit the paper to be severed into lengths as it is printed.

Another object is to provide a mechanism of this nature which may be mounted and arranged so that the cutting means thereof will not interfere with the functioning of the typewriter or the like.

A still further very important object of the invention lies in the provision of a mechanism of this nature which is thoroughly efficient and reliable in its operation and which may be manufactured at a relatively low cost.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a perspective view of the device embodying the features of my invention,

Figure 2 is a fragmentary side elevation thereof, and

Figure 3 is a fragmentary vertical transverse section therethrough.

Referring to the drawings in detail it will be seen that the letter A denotes a pair of L-shaped members, the longer arms 5 of which normally extend vertically and the shorter arms 6 of which extend horizontally. These L-shaped members A are connected together by rods 7 and 8, the former being disposed between the arms 5 and the latter between the arms 6. These L-shaped members A may be mounted on the carriage of a typewriter or the like in any suitable manner. A stationary cutter bar 9 is mounted between the shorter arms 6 intermediate their ends and has a cutting edge 10. A rockable member 11 is of oblong construction and at its ends has right angularly disposed flanges 12 which are pivoted as at 13 to the ends of the shorter arms 6. At one longitudinal edge this rockable member 11 is formed with a flange 14 on which is mounted the movable blade 15 by means of screws 16 or in any other suitable manner. This movable blade has a finger operating extension 17 intermediate its ends. Lugs 18 project inwardly from the flanges 12 and springs 19 are disposed between the lugs 18 and stationary cutter member 9 for normally holding the movable cutter 15 spaced therefrom. Platen fingers 20 are pivoted as at 21 on the member 11 and have rollers 22 to engage paper passing around the platen. A paper supply roll is mounted on a roller 25. This roller 25 has a shaft 26 one end of which projects through an opening 27 in the upper end of one arm 5 while the other end seats in a notch 28 at the upper end of the other arm 5. Said other arm 5 has its upper end extended outwardly and laterally as at 29 so that a rod 30 is projected therethrough and also through an ear 31 on said other arm 5. The lower end of this rod is formed with an arcuate portion 32 that engages the adjacent end of the shaft 26 and holds it in the notch 28 through the medium of a spring 33.

From the above detailed description it may be seen that a roll of paper may be mounted on the roller 25 and trained over the platen illustrated at 35 and then up through the space between cutters 9 and 15. After a desired amount of the paper has been printed upon in the usual well known manner, the operator may push down on the finger extension 17 and sever said paper from the remaining portions of the roll.

It is thought that the construction, utility, and advantages of this invention will now be quite apparent to those skilled in this art without a more detailed description thereof. The present embodiment of the invention has been disclosed in detail merely by way of example since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description. It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

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

1. A device of the class described com-

prising a pair of L-shaped side members each including a vertical long arm and a horizontal short arm, a roller journalled between the upper extremities of the long arms, a rockable member mounted between the ends of the short arms, a cutter mounted on the rockable member, a stationary cutter mounted between the shorts arms, and a spring between the rockable member and the stationary cutter for normally holding the other cutter spaced therefrom, fingers rockably mounted on the rockable member for engaging the platen of a typewriter or the like.

2. A device of the class described comprising a pair of L-shaped side members each including a vertical long arm and a horizontal short arm, one of the long arms being formed with an aperture and the other with a notch, a roller having a shaft projecting into the opening and the notch, spring means for holding the shaft in the notch, a stationary cutter between the short arms, a rockable elongated member having at its ends right angularly extending flanges pivotally mounted to the short arms, and a longitudinally extending flange, a movable cutter fixedly attached to the longitudinal flange and having an operating finger, lugs projecting inwardly from the end flanges, and spring means impinging against the lugs and the fixed cutter for normally holding the movable cutter spaced therefrom.

3. A device of the class described comprising a pair of L-shaped side members each including a vertical long arm and a horizontal short arm, one of the long arms being formed with an aperture and the other with a notch, a roller having a shaft projecting into the opening and the notch, spring means for holding the shaft in the notch, a stationary cutter between the short arms, a rockable elongated member having at its ends right angularly extending flanges pivotally mounted to the short arms, and a longitudinally extending flange, a movable cutter fixedly attached to the longitudinal flange and having an operating finger, lugs projecting inwardly from the end flanges, springs impinging against the lugs and the fixed cutter for normally holding the movable cutter spaced therefrom, and platen fingers pivotally mounted on the rockable member.

In testimony whereof I affix my signature.

SAMUEL E. CHAPMAN.