

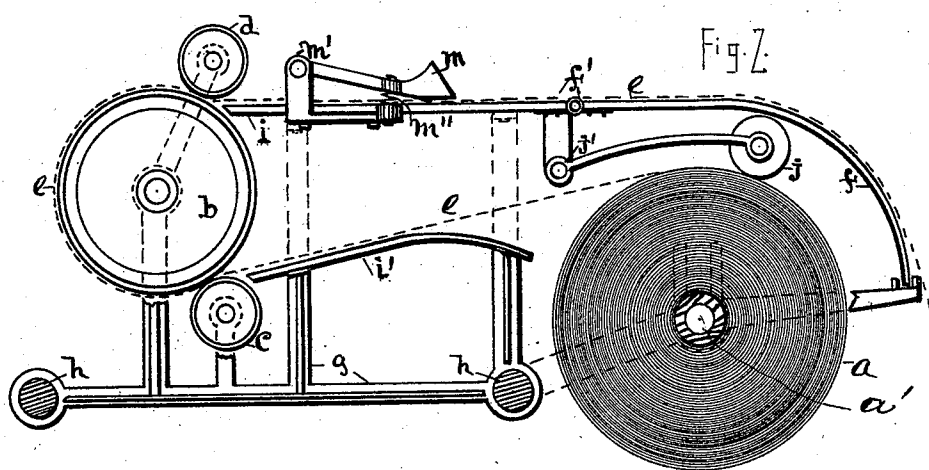
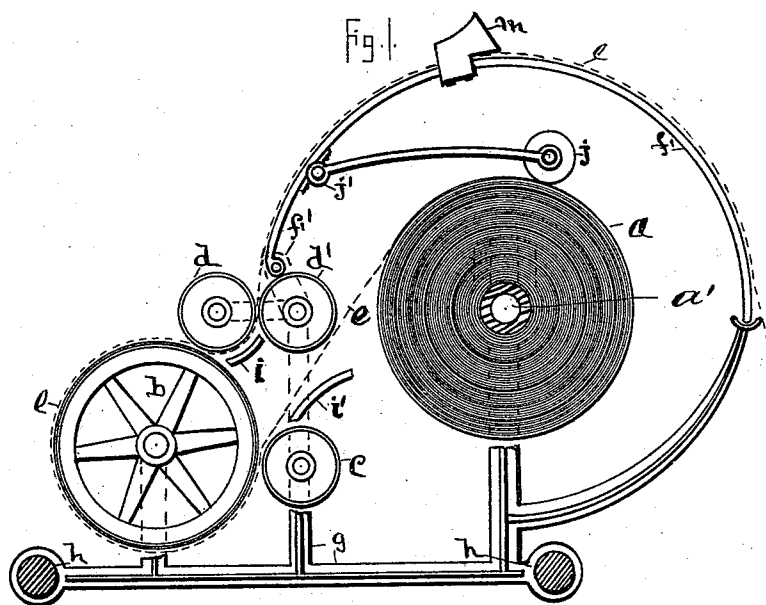
(No Model.)

G. L. CRITTENDEN.

ATTACHMENT FOR ROLLS OF PAPER TO TYPE WRITING MACHINES.

No. 530,929.

Patented Dec. 18, 1894.



Samuel J. Barker
H. W. Prumple

WITNESSES.

George Lucius Crittenden

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UNITED STATES PATENT OFFICE.

GEORGE LUCIUS CRITTENDEN, OF ITHACA, NEW YORK.

ATTACHMENT FOR ROLLS OF PAPER TO TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 530,929, dated December 18, 1894.

Application filed December 27, 1892. Serial No. 456,365. (No model.)

To all whom it may concern:

Be it known that I, GEORGE LUCIUS CRITTENDEN, a citizen of the United States of America, and a resident of Ithaca, Tompkins county, New York, have invented an Improved Attachment for Rolls of Paper to the Platen-Carriages of Type-Writing Machines, of which the following is a specification, reference being had to the accompanying drawings.

The rolls of paper are especially designed to be printed with blanks for telegraphic, telephonic, and like messages, thus enabling them to be rapidly written on from the ample supply of blanks thus furnished; but the paper may be without any forms, adapted to any kind of type machine writing; and my invention will be apparent as I describe and claim my improvement.

Figure 1, is an end elevation of a portion of a platen carriage of a typewriting machine with the roll of paper attached to it. Fig. 2, is a side view of the same structure; its parts being somewhat differently adjusted.

In the figures *a* is a roll of paper; *b*, the platen of the platen carriage; *c*, the guide roller for the paper beneath the platen; *d*, a guide roller above the platen.

The dotted line *e* indicates the travel of the paper as it is unwound from the roll *a*. It passes over the guide plate *i'*, between the guide roller *c* and the platen *b*, around the platen and between it and the guide roller *d*, thence upon the table *f*. The table *f* is hinged at *f'*, to enable it to be lifted upward, to facilitate the insertion of a new roll of paper; the paper being wound on the shaft *a'* which is mounted on suitable supports. A knife bar *m*, just above the table *f*, crosses the paper on the table, by which the paper is cut

off in lengths suited to the message or other typewritten matter on the paper. A retarding roller *j* bears on the roll *a* as shown, and is hinged to any convenient support, that it may bear on the paper as it is used, and be lifted out of the way when a new roll of paper is to be inserted.

The guide roller *d'* may or may not be used.

The guide plate *i*, Fig. 1, may be either dispensed with, or as shown, in Fig. 2, made a part of the table *f*.

The knife *m* may be stationary, as in Fig. 1, or hinged as at *m'* in Fig. 2; and in either case, may be adjusted closely to the left hand edge of the table. When hinged the springs *m''* are useful to keep the knife clear of the paper.

When a number of telephonic or telegraphic messages are rapidly received, they can go over the table and fall behind it, until cut off.

The shape of the supporting studs *g* is of little consequence; as is the shape of the platen carriage, which moves on the rods *h*.

To be adapted to the various varieties of typewriting machines the several parts must be somewhat changed, as can be done without essentially changing my invention.

What I claim is—

In the described attachment for rolls of paper to typewriting machines; the combination of the roll *a*, the plate *i'*, roller *c*, platen *b*, guide roller *d*, hinged table *f*, retarding roller *j*, and cutting knife *m*; the several parts being mounted, arranged, and operating, as set forth.

GEORGE LUCIUS CRITTENDEN.

Witnesses:

SAMUEL J. PARKER,
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