(No Model.)

E. S. BARNETT.

TYPE WRITING MACHINE ATTACHMENT.

No. 513,976. Patented Feb. 6, 1894.

Fig I

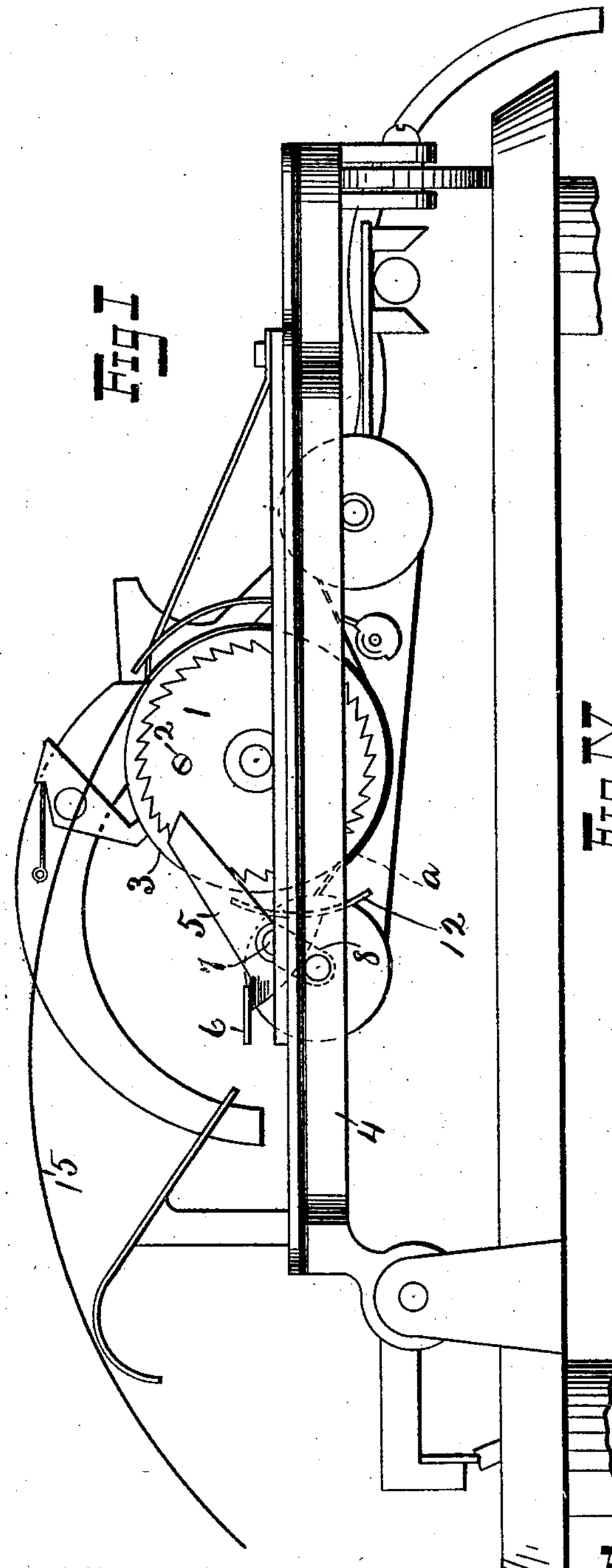

Fig II

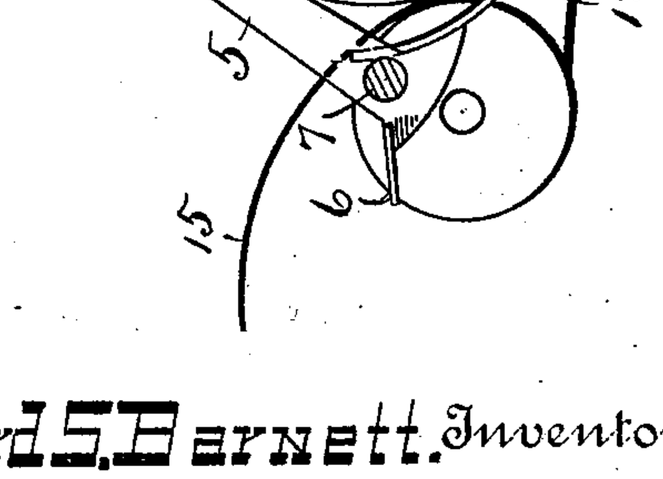

Fig III

Fig IV

Fig V

Witnesses
Carl. Koehler.
Frank. C. Ward.

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UNITED STATES PATENT OFFICE.

EDWARD S. BARNETT, OF KANSAS CITY, MISSOURI.

TYPE-WRITING-MACHINE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 513,976, dated February 6, 1894.

Original application filed December 30, 1892, Serial No. 456,739. Divided and this application filed August 21, 1893. Serial No. 483,596. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. BARNETT, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Type-Writer Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

This application is a division of an application for improvements in type writer attachments filed by me December 30, 1892, Serial No. 456,739.

My invention is particularly adapted to be used in connection with type writing machines. However, it is applicable to various other machines adapted to feed sheets of paper.

My invention has for its object the providing of paper feeding machines of the kind having feed rollers, such as certain classes of type writers and other machines through which sheets of paper are fed, with a ratchet mechanism connected with said feed roller and operated by the sheet of paper for the purpose of stopping the feeding mechanism when the sheet of paper has reached a certain position.

My invention consists further, in providing means for predetermining the position of said sheet when it shall operate to stop the feeding mechanism.

In the accompanying drawings, I have illustrated my invention as applied to type writing machines.

Figure I represents in side elevation, a view of my invention in connection with a Remington type writer. Fig. II represents a top view of my invention as applied to a Remington type writer. Fig. III represents the same construction shown in Fig. I, in side elevation, and shows the pawl held by the sheet of paper, disengaged from the ratchet wheel. Fig. IV represents in perspective, a view of the pawl used in connection with a Remington machine, and also illustrates an adjustable actuating arm.

Similar numerals of reference indicate similar parts.

1, indicates a vertical ratchet wheel secured by means of a screw 2, or by any other suitable means, to a platen or feed roller 3, which is mounted in the ordinary manner upon the carriage 4. A pawl, 5, formed preferably from a piece of sheet metal, and provided with a horizontally projecting thumb-piece 6, is pivoted preferably upon a horizontal screw 7, which engages in a threaded opening at one corner of the shifting carriage. This screw 7, is ordinarily used to support a link 8, which serves as a bearing for one end of a shaft 9, upon which the small feed roller 10, is secured. An inwardly projecting arm 11, upon the pawl 5, serves as a means of support for a presser arm 12.

In Fig. IV, I have shown a means of making the presser arm 12, adjustable upon the arm 11. The rectangular portion of the arm 11, is forced backward by the upper and lower edges being cut while the ends thereof are left intact. An opening is thus left through which the presser arm 12, which is preferably a piece of curved spring metal, can be slipped. The curve and the tension in the arm 12, serve to hold said arm in any position in which it may be placed, upward or downward upon the arm 11. Markings, as shown in Fig. IV, may be stamped or otherwise placed on any visible portion of the presser arm 12, so that the operator may quickly adjust the presser arm to suit any desired width of margin that it may be desired to leave at the foot of the sheet that is being used. Near the top of the pawl arm 5, is an inward projection 13, which serves to engage with the teeth of the ratchet wheel. An opening 14, is provided at the lower end of the pawl arm through which the screw 7, passes. As shown in Fig. II, the presser arm 12, is rigidly secured to the arm 11.

I will now proceed to describe this form of my invention:—The sheet of paper, which is indicated by the curved black line 15, is passed upon the platen or feed roller, and to the rear of the curved presser arm 12. The pressure of the sheet upon the arm 12, throws the lower end of said arm forward and rocks the pawl arm 5, backward and disengages the projection 13, from the teeth of the ratchet wheel. As the sheet of paper is fed through the machine by revolving the platen roller 3, the pawl 5, remains in the position shown in

Fig. III, until such time as the rear edge of the sheet 15, has passed beyond and out of contact with the presser arm 12. This position is indicated by the dotted line *a*, in Fig. I. The presser arm 12, being released by the sheet, permits the pawl 5, to drop by gravity into the position shown in Figs. I and II. The projection 13, being now engaged with one of the teeth of the ratchet wheel 1, prevents the revolving any further of the platen roller 3. If it is now desired to either remove the sheet or advance it any farther, the pawl may be disengaged from the teeth of the ratchet wheel by applying pressure upon the thumb piece 6, thus leaving the platen roller free to revolve. It will be evident, upon examination of Fig. IV, that considerable variation in the width of the margin at the lower edge of the sheet may be had by varying the position of the presser arm 12, relative to the arm 11.

Various modifications of construction may be made without departing from the spirit of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In paper feeding, the combination with a feed roller of the sheet of paper to be fed, a ratchet wheel connected with the feed roller, and a pawl actuated by the said sheet of paper and adapted to engage with the teeth of the ratchet wheel and suitable supporting mechanism, substantially as described.

2. In a type writer, the combination with the platen or feed roller, of a ratchet wheel secured thereto, the sheet of paper operated upon, and a pawl mechanism for engaging with the teeth of the ratchet wheel and actuated by the said sheet of paper, substantially as described.

3. In a type writer, the combination with the platen or feed roller, of a ratchet wheel connected therewith, the sheet of paper operated upon, a pawl mechanism for engaging with the teeth of the ratchet wheel and actuated by the said sheet of paper, and means for predetermining the position of the said sheet and time of stopping the rotation of the platen or feed roller, substantially as described.

4. In a type writer, the combination with the platen or feed roller, of a ratchet wheel secured thereto, a pawl engaging with the ratchet wheel, an arm connected with the pawl and actuated by the sheet of paper operated upon, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD S. BARNETT.

Witnesses:
FRANK. C. WARD,
WILL SMITH.