

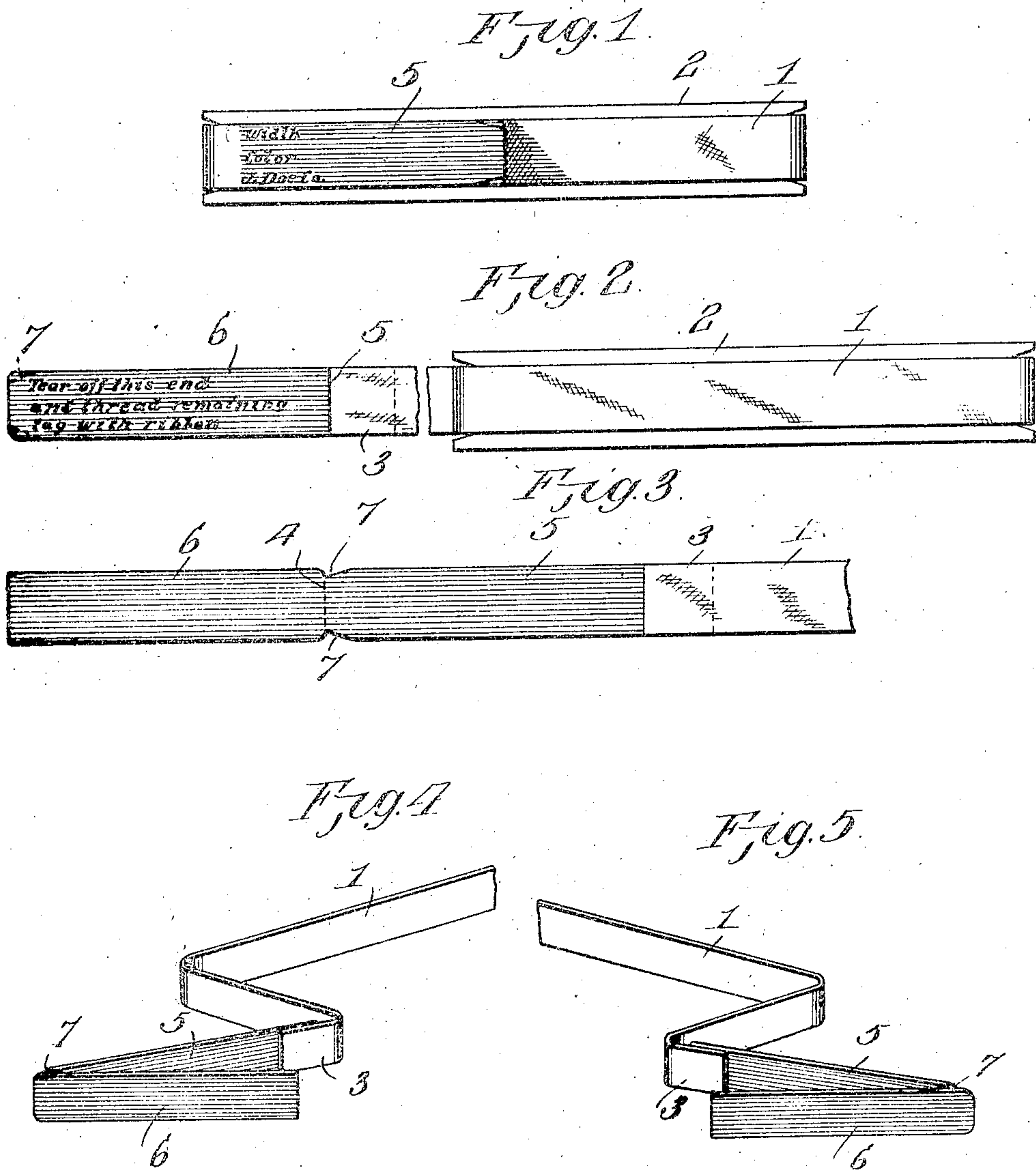
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G. PERRY.

THREADER AND PROTECTOR FOR INKED RIBBONS.

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# UNITED STATES PATENT OFFICE.

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## THREADER AND PROTECTOR FOR INKED RIBBONS.

No. 880,913.

Specification of Letters Patent.

Patented March 3, 1908.

Application filed October 24, 1907. Serial No. 398,991.

*To all whom it may concern:*

Be it known that I, GLADSTONE PERRY, a subject of the King of Great Britain, residing at Listowel, in the Province of Ontario and Dominion of Canada, have invented new and useful Improvements in Threaders and Protectors for Inked Ribbons, of which the following is a specification.

This invention relates to inked ribbons, and the object of the invention is to provide a combined threader and protector adapted for use in connection with any inked ribbon whether used on adding machines or typewriting machines or any other machine requiring the use of an inked ribbon.

As is well understood, the ordinary inked ribbon used on machines of the class above referred to is objectionable for two main reasons. First, it is practically impossible to thread the ribbon through the various guides of the machine and fix the ends thereof to the winding spools or reels without soiling the hands and oftentimes the clothing of the operator. Secondly, the ribbons now in common use have no tags on the ends thereof, thus making it a difficult and tedious matter to thread the ends into the catches contained on the spools or reels of the machine, this being particularly the case with narrow ribbons.

The object of the present invention is to overcome the defects herein noted by attaching to the ends of the inked ribbon what may be termed combined threaders and protectors or in other words, threaders for facilitating the application of the inked ribbon to the machine and protectors for preventing any ink from being transferred from the ribbon to the threader, while the ribbon is on the holder or spool upon which it is rolled.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts hereinafter fully described, illustrated and claimed.

In the accompanying drawings, Figure 1 is a plan view of an inked ribbon mounted on a spool or holder and having the device of this invention applied thereto. Fig. 2 is a similar view showing the outer end of the ribbon partially unwound from the holder. Fig. 3 is a plan view of one end of the ribbon showing the combined protector and threader. Figs. 4 and 5 are detail perspective views of the ribbon ends showing the manner of attaching the device of this invention thereto.

In the drawings 1 designates an inked ribbon which may be of any length or width and 2 designates the holder upon which the ribbon is placed; said holder may be either flat or cylindrical.

In carrying out the present invention, strips which are of any suitable material such as paper or cardboard are secured to the extremities of the inked body of the ribbon by cement, glue or in any other convenient manner, the adjoining extremities of the ribbon and strips being overlapped as shown at 3 in Figs. 4 and 5. Under the preferred embodiment of the invention, the strips are first prepared by dipping the same in a bath of hot paraffin or any other suitable preparation not affected by the ink and not adapted to absorb any portion of the ink contained on the ribbon. If necessary the extremities of the strips which overlap the ends of the inked ribbon may be left uncoated in order that they may more effectively adhere to the ribbon. Before dipping the strips, they may be printed with any suitable directions and information such as the color of the ribbon, the maker's name and any other data desired.

The strips may be of any suitable length and are preferably of the same width as the ribbon 1 and each strip is provided with a folding line intermediate its length which line is indicated at 4. This folding line may, if desired, be indented so as to more readily fold. The inner portion of said strip between the folding line 4 and the extremity of the ribbon and which is designated by the numeral 5 is termed the threader or threading tag, while the outer end portion 6 beyond the folding line 4 is a protector or protecting tag that is adapted to be folded inward against the inner surface of the threading tag 5 so as to lie between said threader and the inked ribbon thereby preventing any part of the ink of the ribbon from being transferred to the threader. Therefore, when the ribbon is unwound from its original holder and the protecting tag 6 is torn off on the line of the fold 4 the threader 5 is left perfectly clean and free from ink. Another advantageous feature of the invention resides in providing the device with oppositely arranged notches 7 substantially V-shaped so that when the outer section 6 of the strip is torn off the extremity of the threading portion of the strip will be somewhat pointed as will be readily understood by reference to Fig. 3. This will facilitate the threading of the ends of the rib-



bon through the guides and onto the spools or reels of the machine. The device is also a safe guard for the manufacture of the ribbon as the name of the manufacturer or brand of the ribbon may be represented on the strip in addition to the usual plan of printing the name of the manufacturer or brand of the ribbon or both on the box in which the ribbon is sold.

10 Having thus fully described the invention, what is claimed as new is:—

1. The combination with an inked ribbon, of a combined threader and protector attached to and projecting beyond the end of the ribbon and embodying a folding portion adapted to be folded between the remainder

of the protector and the body of the ribbon, substantially as described.

2. The combination with an inked ribbon, of a combined threader and protector there- 20 for consisting of a strip of relatively stiff material attached to and projecting beyond the extremity of the ribbon, said strip being provided with oppositely arranged notches and a fold line extending across the strip adja- 25 cent to said notches.

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

GLADSTONE PERRY.

Witnesses:

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