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INKED RIBBON WITH UNINKED END

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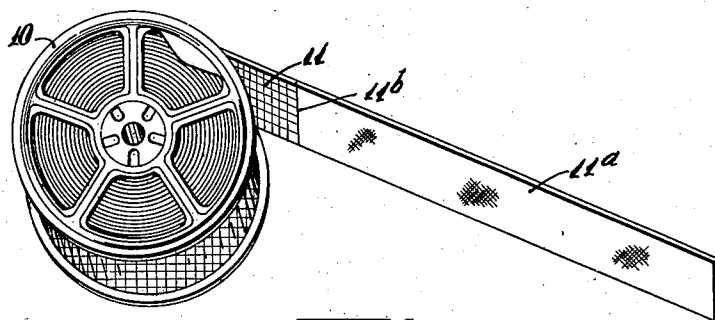


Fig. 1.

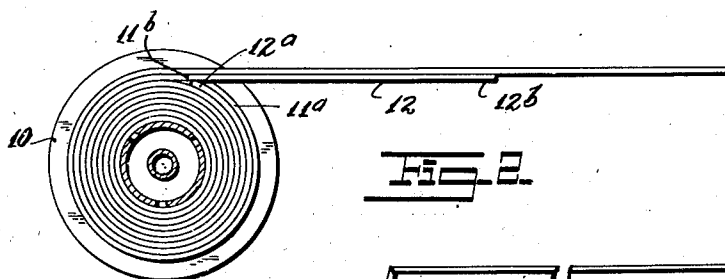


Fig. 2.

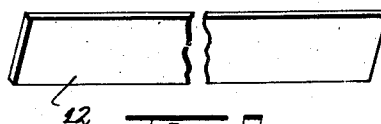


Fig. 3.



Fig. 4.

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INKED RIBBON WITH UNINKED END

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4 Claims. (Cl. 197—172)

This invention relates to new and useful improvements in an inked ribbon with an uninked portion.

The invention has for an object the construction of a one piece ribbon with an uninked outer end and adapted for use on typewriting machines, adding machines, and the like.

More particularly the invention proposes the arrangement of an inked ribbon wound upon a spool or core and provided with an uninked outer end.

The purpose of the uninked outer end is to afford a clean handling portion when the ribbon is set upon a machine. Prior to this invention ribbons have been made with uninked portions attached upon the ends. Such constructions are inferior to the instant invention in that they are more expensive to manufacture and the attachment of the uninked portions with inked portions very often interferes with the proper operation of the machine upon which it is engaged.

The invention also proposes to teach a method for manufacturing the inked ribbon with an uninked outer end so as to be adaptable for one color or multi-color ribbons of any desired lengths.

Another one of the objects of this invention is an arrangement associated with the uninked end of the ribbon and a spool upon which it is engaged, for preventing ink from the inked portion travelling through and partially inking or soiling the uninked portion.

Still further the invention proposes the provision of a foreign strip of ink proof material wound into the turns of the inked ribbon with the uninked end and arranged at the uninked end portion in such a manner so as to separate the inked from the uninked portions.

Still further the invention proposes another method for protecting the uninked portion from the inked portion which is characterized by the provision of ink proof material impregnated at a portion of the uninked portion of the ribbon so as to separate the inked from the uninked portions.

Still further the invention proposes the construction of an article as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention as wax, paper or similar material is associated.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a perspective view of a spool with an

inked ribbon having an uninked outer end according to this invention.

Fig. 2 is a horizontal sectional view of a ribbon constructed according to this invention similar to the ribbon shown in Fig. 1 except arranged according to another embodiment of this invention.

Fig. 3 is a perspective view of ink proof material used in Fig. 2.

Fig. 4 is a fragmentary elevational view of an inked ribbon with uninked end constructed according to another embodiment of this invention.

The inked ribbon with an outer uninked end according to this invention is shown associated upon a spool 10 generally used in typewriters and other similar types of machines.

This spool 10 is adapted to be engaged upon a receiving mandrel, spindle or shaft of the typewriter or adding-machine or other machine as is generally known in the art and for this reason further specific details thereof will not be given. An inked ribbon 11 is wound upon the spool 10 and is provided with an uninked outer end 11^a. The inner end of the ribbon is attached upon the spool in a conventional manner generally known and for this reason not described in detail in this specification.

The line 11^b is the junction between the inked and uninked portions of the ribbon. The ribbon may be supplied with ink in any conventional manner but the uninked portion 11^a must be protected from the application of the ink to remain uninked. It is a feature of the invention that the inked and uninked portions are integral, contrasted with prior arrangements where uninked portions were attached upon the ends of an inked ribbon. It is a feature of this invention when the ribbon illustrated in Fig. 1 is engaged upon a machine the uninked outer end may be handled any number of times without the fingers becoming dirty with ink as would happen if the entire ribbon were inked.

In Figs. 2 and 3 another embodiment of the invention has been disclosed wherein provision is made for protecting the uninked end from the ink of the inked portion of the ribbon. More particularly an ink proof strip of material 12 such as wax paper, or similar material is associated with the ribbon in a peculiar manner to function as a protection. More specifically, the protecting strip 12 is wound between the turns of the ribbon and extends partially over the inked and uninked portions so that there is at least a full turn of the protector 12 to separate the inked end from the uninked portion of the ribbon.

This is clearly illustrated in Fig. 2 where the

inner end of the protecting strip is indicated by reference numeral 12^a and the outer end is indicated by reference numeral 12^b. The dividing line between the inked and uninked portions of the ribbon is indicated by reference numeral 11^b.

When the ribbon, of the form of the invention illustrated in Figs. 2 and 3 is applied in position upon a typewriter adding machine or the like, the end thereof is partially unwound and the ink proof material 12 removed. Then the ribbon is applied in the ordinary fashion. A feature of this invention lies in the fact that the uninked portion will be perfectly clean since it was separated from the inked portion.

In Fig. 4 another embodiment of the invention has been disclosed wherein an inked ribbon 11 is illustrated provided with an uninked portion 11^a which is separated from the inked portion by an ink proof material 14 impregnated into the uninked portion of the ribbon. This ink proof material 14 may be shellac or some compound of shellac or other materials which would prevent the passage of ink and protect the uninked portion from the inked portion. The ink proof material 14 is arranged upon the end of the uninked portion 11^a immediately adjacent the ink portion 11 and extends for a suitable distance so as to extend at least one turn around the inked portion when the ribbon is on a spool and so thoroughly separate the inked from the uninked portions.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I

claim as new, and desire to secure by United States Letters Patent is:—

1. A ribbon for typewriters, adding machines and the like, comprising a strip of ribbon material having a portion impregnated with ink and having a second portion at one end free of ink, a part of the uninked portion adjacent to the inked portion being covered with an ink proof material for a distance at least as long as the circumference of said inked portion when the latter is rolled upon a typewriter reel.

2. A ribbon for typewriters, adding machines and the like, comprising a strip of ribbon material having a portion impregnated with ink and having a second portion at one end free of ink, said latter portion being substantially equal to twice the circumference of said ribbon when rolled, the inner half of said second portion being covered with an ink proof material.

3. A ribbon for typewriters, adding machines and the like, comprising a strip of ribbon material impregnated with ink from the inner end to a short distance from the outer end and ink proof means upon the inner portion of the uninked portion to cover the inked portion whereby the outer end of the uninked portion will be held away from the inked portion and protected from receiving ink when the ribbon is rolled.

4. A ribbon for typewriters, adding machines and the like, comprising a strip of ribbon material having the greater portion impregnated with ink and having the lesser portion at one end free of ink, said lesser portion being at least as long as twice the circumference of the inked portion when rolled and said lesser portion having an inner portion and an outer portion equal in length, the said inner portion being impregnated with ink proof material to protect the outer portion from ink.

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