Aug. 4, 1925. 1,548,661

C. A. COLCOMBET

DRUM FOR WINDING RIBBONS OR THE LIKE

Filed Dec. 21, 1923

Fig. 1.

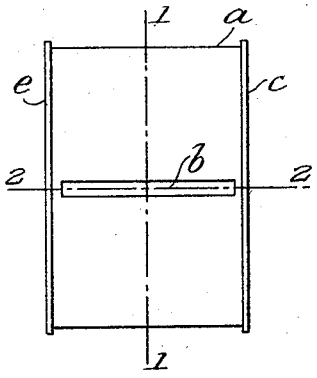


Fig. 2.

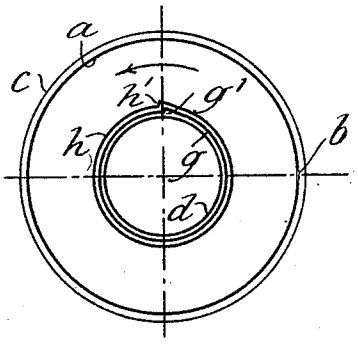
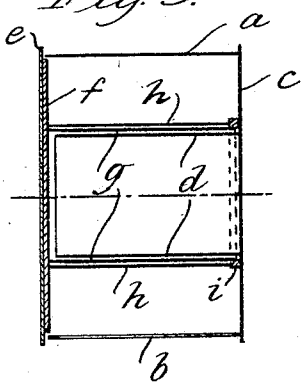


Fig. 3.



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Patented Aug. 4, 1925. 1,548,661

UNITED STATES PATENT OFFICE.

CHARLES A. COLCOMBET, OF ST. ETIENNE, FRANCE, ASSIGNOR TO COLCOMBET FRANCOIS ET CIE. SOCIÉTÉ ANONYME, OF ST. ETIENNE, FRANCE, A FRENCH COMPANY.

DRUM FOR WINDING RIBBONS OR THE LIKE.

Application filed December 21, 1923. Serial No. 682,077.

To all whom it may concern:

Be it known that I, CHARLES ALEXANDER COLCOMBET, a citizen of the French Republic, residing in St. Etienne, Loire, France, have invented certain new and useful Improvements in Drums for Winding Ribbons or the like, of which the following is a specification.

This invention relates to a drum to enclose the ribbon or the like, said drum having a slot through which the ribbon or other article enclosed in said drum may be withdrawn or wound back into said drum without the necessity of opening the drum.

The invention is illustrated, by way of example, in the accompanying drawing, in which—

Fig. 1 is an exterior front view of a drum embodying the invention and showing the opening in the casing through which the ribbon may pass.

Fig. 2 is a cross section along the line 1—1 in Fig. 1.

Fig. 3 is a central section along line 2—2 of Fig. 1.

The outer cylindrical cover *a*, formed in the ordinary way by rolling a sheet of cardboard or other material, is provided with a longitudinal slot *b* through which the ribbon may be wound or unwound. In order to impart to this drum a more distinctive and stylish appearance, the cover *a* may be made from a metallic sheet, which sheet may be engraved or otherwise ornamented. The cover *a* is suitably secured, as by glue, to a disc *c* of a diameter slightly larger than the diameter of the cover, so as to permit the easy manipulation of the disc by hand. To the same side of the disc *c* as that to which the cover *a* is secured is also secured, as by glue, a centrally disposed tube *d* which may be of cardboard and which forms a spindle.

To a second disc *e* of the same diameter as the disc *c* is secured, as by glue, a cardboard washer *f* which has the same diameter as the inside of the cover *a* and the thickness of which corresponds approximately to the distance of that and of the slot *b* which is nearest the disc from the adjacent end of the cover *a*. To the washer *f* is also secured, as by glue, a tube of cardboard *g* having its internal diameter of a size to fit over the central tube *d* of the cover *a*.

A tubular sleeve of cardboard *h* on which the ribbon or the like is to be wound, fits exactly over the tube *g* upon which it is capable of rotating. The elasticity of the material of which the tube *g* and sleeve *h* are formed makes the rotation of the latter on the former easy.

The ribbon or the like article is wound upon the sleeve *h* and the sleeve is then mounted on the tube *g* carried by the disc *e*, as above stated. The sleeve and tube are enclosed in the casing *a* by introducing the central tube *d* carried by the disc *c* within the tube *g*. A cardboard ring *i* is interposed between one end of the sleeve *h* and the disc *c* so as to hold that end of the sleeve *h* a distance away from the disc *c* which is substantially equivalent to the distance of the end of the slot *b* from said disc, the extremity of the ribbon being passed through slot *b*.

In order to unwind the ribbon its extremity which projects through the slot *b* is pulled, the effect of which is to cause the rotation of the sleeve *h* upon the tube *g*.

When it is desired to wind up the ribbon on the tube *h* without having to remove the ribbon from the drum, it is sufficient to take the drum between the hands and with one hand to rotate the disc *e* and with it the tube *g* in the direction of the arrow (Fig. 2). During this rotary motion of the tube *g* its beak *g'* will engage the beak *h'* of the tube *h* which will cause the rotation of the tube *h* during the whole of the rotation of the tube *g*. The ribbon will thus be wound around the tube *h*.

A drum embodying the invention, which may be constructed in any size, has the great advantage of protecting the ribbon or the like article enclosed therein from the light, dust and other causes of external deterioration.

Having thus described the nature of my said invention and the best means I know of carrying the same into practical effect, I claim:—

A winding drum for ribbon or the like, comprising a cover or casing having a longitudinal slot for the passage of ribbon or similar article, a disc secured to one end of the said cover and forming one end of the drum, a central tube carried by said disc and forming a spindle, a second disc constituting the other end of the drum, a tubu-

lar member secured to the second disc and fitting exactly on the central tube to rotate upon the latter, said tubular member having on its periphery a projecting beak or tooth, and a sleeve upon which the ribbon or like article to be enclosed in the drum is wound, said sleeve having an internal beak or tooth complemental to the beak or tooth of said tubular member, said internal beak or tooth adapted, when said sleeve is rotated in one direction, to ride over the beak or tooth of said tubular member, and, when said tubular member is rotated in the opposite direction, to be engaged by the beak or tooth of the latter to cause the rotation of said sleeve with said tubular member.

In testimony whereof I have signed my name to this specification.

CHARLES A. COLCOMBET. [L. S.]