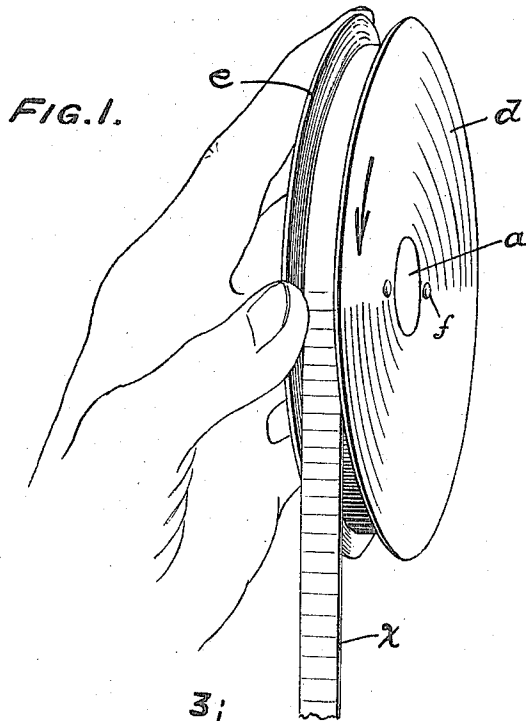
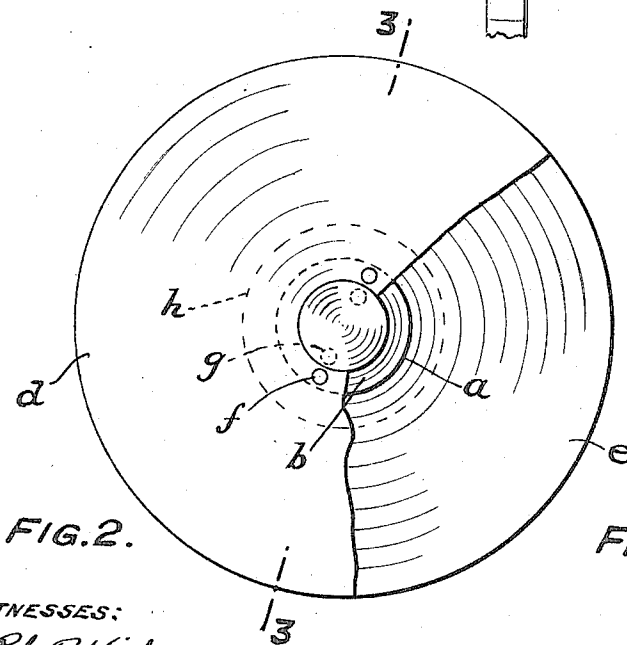
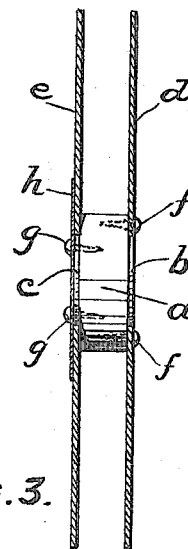


E. M. GOLDSMITH.
 RIBBON REEL.
 APPLICATION FILED JULY 22, 1914.

1,187,986.

Patented June 20, 1916.



WITNESSES:

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EDWIN M. GOLDSMITH, OF PHILADELPHIA, PENNSYLVANIA.

RIBBON-REEL.

1,187,986.

Specification of Letters Patent.

Patented June 20, 1916.

Application filed July 22, 1914. Serial No. 852,341.

To all whom it may concern:

Be it known that I, EDWIN M. GOLDSMITH, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Ribbon-Reels, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

The object of my invention is to provide a reel for ribbons that may be readily manipulated to effect or facilitate the winding upon, or unwinding from, the reel of the ribbon, and to construct the same so inexpensively that it will be practicable to give the same away with the ribbon as an inducement for the latter's purchase.

In the ordinary ribbon reels, the user, when either winding or unwinding the ribbon, takes hold of the loose end thereof and accomplishes the result by a circular movement of the hand accompanied by tension on the ribbon. This is a more or less tedious operation.

The object of my invention is to enable the ribbon to be wound or unwound by manipulating the reel itself in a simple and convenient manner, and also to enable the ribbon to be unwound by a straight pull upon the loose end thereof.

In the drawings, which show a preferred embodiment of my invention—Figure 1 is a perspective view of the reel held in operative position; Fig. 2 is a side view of the reel partly broken away; Fig. 3 is a section on the line 3—3 of Fig. 2.

The hub *a* of the reel is cut away circumferentially at its opposite ends to form reduced necks *b*, *c*. Upon these necks are slipped the heads *d*, *e*, the length of each neck being about equal to the thickness of the heads, whose outer faces are hence substantially flush with the end faces of the necks. The hub *a* may be conveniently made of wood and the heads *d* and *e* of pasteboard.

The head *d* is secured to the hub *a* by nails or tacks *f*, which engage the body of the hub near its periphery and outside the periphery of the neck. To the neck *c* is secured a disk *h*, which is preferably of metal and comparatively thin and of a diameter greater than that of the neck *c* and preferably greater than that of the body of the hub. This disk is secured to the hub by

means of screws, nails or tacks *g*, which extend through the disk and the neck of the hub. The disk *h* does not fit so tightly against the head *e* as to prevent the free turning of the latter on the neck *c*. While the head *e* is thus the rotatable member of the hub, it is rotatable only in a relative sense, the same being held fixed and the other members of the reel being rotatable when the same is operated in the contemplated way. If we assume that a ribbon or tape *x* is wound upon the reel, it will be understood that if the user grasps the head *e* in one hand, as shown in Fig. 1, the ribbon may be unwound by grasping the loose end of the ribbon with the other hand and pulling it out straight until the desired length of ribbon is unwound, the hub *a*, head *d* and disk *h* revolving in the direction of the arrow, Fig. 1, as the ribbon is unwound; or, if desired, the user may take hold of the head *d* and by rotating it effect the unwinding of the ribbon. To rewind the ribbon, the user, with one hand, again holds the head *e* in a fixed position and turns the head *d* in the direction opposite to its direction of rotation in the unwinding operation. If desired, more or less tension may be imposed on the ribbon, in the winding operation, by one or two fingers of the hand which holds the head *e*.

I am aware that it is known to rotate a reel upon a fixed axis and also to provide a bobbin having a head which is normally held in fixed relation to the remainder of the bobbin but which is removable to allow the yarn spun thereon to be readily removed without unwinding; but my invention contemplates neither the rotation of the wheel as a whole, nor the maintenance at any time of the head *e* in fixed relation to the remainder of the reel, nor the removal of such head from its hub, but provides for its free rotatability relative to the hub at all times. Further, the specific construction whereby the fixed head and rotatable head are provided enables the reel to be constructed so inexpensively that it may be sold with the ribbon thereon as cheaply as a ribbon wound on the ordinary plain reel, thus promoting the sale of the ribbon.

The invention finds its most useful application as applied to a reel whose diameter is great relatively to its axial length and which is thus adapted to hold a considerable length or comparatively narrow ribbon. It

will be observed, also, that the axial dimension of the wheel is greater than that of an ordinary plain reel only by the thickness of the disk *c*, which is absolutely negligible.

5 There are therefore no projecting parts and the reels may be economically packed for shipment or storage.

Having now fully described my invention, what I claim and desire to protect by
10 Letters Patent is:

A reel comprising a hub and similar reduced necks at opposite ends thereof, similar heads having central orifices by means of which they are assembled on the respective
15 necks, a disk of greater diameter than the hub applied to and overlying the end face

of one of the necks and affording with said neck and hub a bearing in which one of the heads turns, the last named head being of a thickness not exceeding the length of the
20 corresponding neck, retaining devices spaced from the center of the hub and securing the disk fixedly to said neck, and retaining devices extending through the other head adjacent to the central orifice and into the hub. 25

In testimony of which invention, I have hereunto set my hand, at Philadelphia, on this 21st day of July, 1914.

EDWIN M. GOLDSMITH.

Witnesses:

MAX N. AARON,
J. C. WILLIAMS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."