

J. H. GATELY.
WINDING CORE.
APPLICATION FILED JULY 6, 1907.

911,006.

Patented Jan. 26, 1909.

Fig. 1.

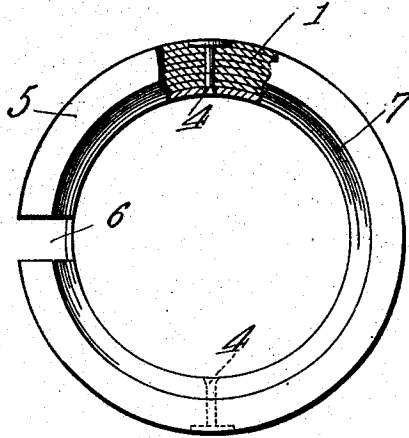
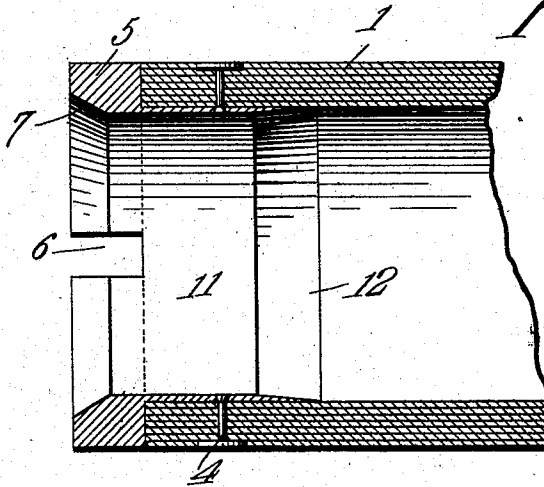


Fig. 2.



Witnesses

E. F. Bennett

Herbert D. Lawrence

Inventor
John H. Gately

By *Chas. Snow & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

JOHN HENRY GATELY, OF BELLOWS FALLS, VERMONT, ASSIGNOR OF ONE-HALF TO JOHN P. RILEY, OF BELLOWS FALLS, VERMONT.

WINDING-CORE.

No. 911,006.

Specification of Letters Patent.

Patented Jan. 26, 1909.

Application filed July 6, 1907. Serial No. 332,489.

To all whom it may concern:

Be it known that I, JOHN HENRY GATELY, a citizen of the United States, residing at Bellows Falls, in the county of Windham and State of Vermont, have invented a new and useful Winding-Core, of which the following is a specification.

This invention relates to winding cores and is more particularly designed as an improvement upon the construction disclosed in Patent No. 839,378, granted to me on Dec. 25, 1906, and also upon the construction disclosed in an application filed by me on Jan. 30, 1907, Serial No. 354,900.

The object of the invention is to further improve upon the construction of the reinforcing caps or sleeves so that the core, which is designed for use in connection with roll goods, can be readily placed in engagement with a chuck without danger of mutilating the end of the core.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claim.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings:—Figure 1 is an end elevation of a winding core embodying the present improvements, a portion thereof being shown in section: Fig. 2 is a longitudinal section through one end of the winding core.

Referring to the figures by characters of reference, 1 designates a core preferably formed of paper, and into one end of which extends a ring 11, the inner end of said ring having its inner surface flared or beveled as shown at 12 and coming down to an edge which bears against the inner surface of the core. The ring is secured within the core in any preferred manner, preferably by means of rivets 4, the heads of said rivets being flush with the inner surface of the ring and the core respectively. Formed integral with the ring and at the outer edge thereof is an annular enlargement 5, designed to bear against the end of the core and having its outer face flush with the outer surface of the core, while its inner face is flush with the inner surface of the ring. This enlargement is intersected by a notch or transverse groove 6, designed to be engaged by the chuck of the winding or unwinding mechanism. This

groove does not extend into the ring, which, instead, is left imperforate. The inner face of the enlargement is beveled annularly, as shown at 7, so that a chuck can be readily inserted into the ring.

Obviously, by constructing the core in the manner herein described, it becomes unnecessary to reduce, and thus weaken the ends of the paper core, and, when a shaft is inserted through the core, it will glance along the inclined portion 12 of the ring or sleeve, and therefore lessen the chances of loosening or driving the ring or sleeve from the core.

The device here described constitutes efficient means for preventing cores from being crushed at the ends, and also from being mutilated by the chuck ordinarily employed for winding or unwinding the material. Moreover, this device renders it unnecessary to notch the ends of the core, and it is also rendered unnecessary to reduce the thickness thereof. The parts can be very readily assembled, and the entire reinforced core produced at comparatively slight cost.

What is claimed is:

The combination with a winding core; of an imperforate ring extending into one end of the core, the inner end of the ring having its inner surface flared or beveled, an annular enlargement at the outer end of the ring and bearing against one end of the core, the inner surface of said enlargement being flared at its outer end, said flared portion extending over the end of the core, said enlargement having a notch intersecting the same and closed at its inner end by the end of the core, said inner end constituting a yielding bearing for an inserted key, and said enlargement being of the same thickness as the core, and securing devices extending through the core and ring and permanently attached thereto, the ends of said securing devices being flush with the adjoining faces of the plate and core, the inner and outer faces of the enlargement being flush with the corresponding faces of the core.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN HENRY GATELY.

Witnesses:

GEORGE KLOCK,
MAURICE DORSEY.