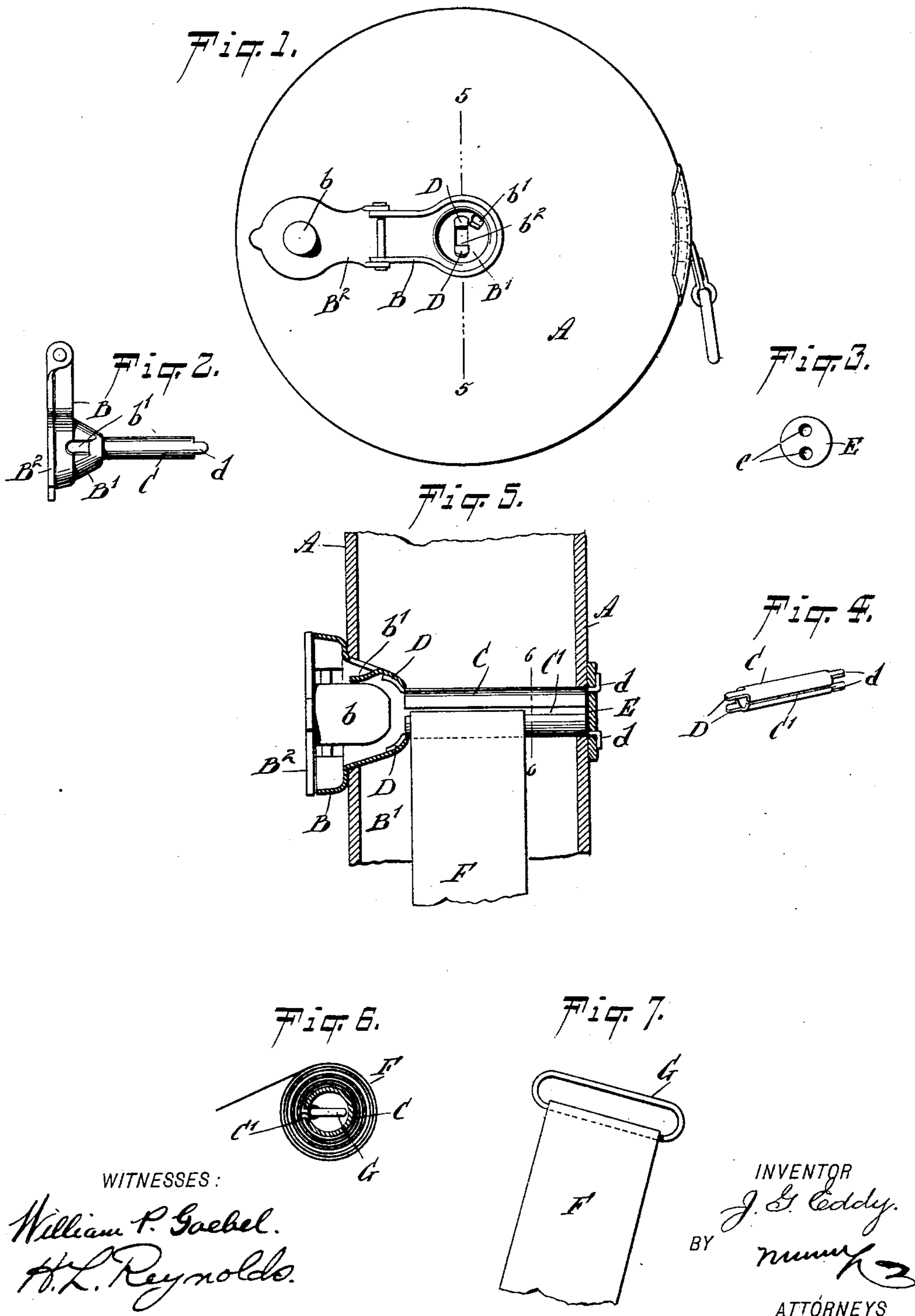


(No Model.)

J. G. EDDY.  
TAPE REEL.

No. 591,747.

Patented Oct. 12, 1897.



# UNITED STATES PATENT OFFICE.

JOHN G. EDDY, OF BROOKLYN, NEW YORK, ASSIGNOR TO G. M. EDDY & CO., OF SAME PLACE.

## TAPE-REEL.

SPECIFICATION forming part of Letters Patent No. 591,747, dated October 12, 1897.

Application filed May 29, 1897. Serial No. 638,719. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN G. EDDY, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Tape-Reel, of which the following is a full, clear, and exact description.

My invention relates to an improvement in the barrel or post of a tape-reel; and it consists, essentially, in forming the reel hollow and longitudinally slotted, by which means the end of the tape which has been folded may be inserted in the slot and secured to the barrel by placing a pin or staple within the fold of the tape.

It consists, further, in fastening the ends of the barrel to the crank-head by means of a slot in the crank-head and in projecting pins from one end of the barrel, which are inserted through said slot and bent down upon the crank-head.

It also consists in attaching in a similar manner a washer upon the opposite end of the barrel.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a tape-reel having my invention applied thereto. Fig. 2 is a side view of a crank having the barrel attached thereto. Fig. 3 is a plan view of the washer used to close the outer end of the barrel. Fig. 4 is a perspective view of the barrel. Fig. 5 is a cross-section through the improved reel. Fig. 6 is a transverse section of the barrel on the line 6 6 in Fig. 5, showing a portion of tape coiled thereon and the staple by which the tape is fastened; and Fig. 7 is a view of the end of the tape, showing the locking-staple.

In the drawings, A represents the casing, within which the tape is coiled. This casing is provided with a crank of the usual construction, consisting of the two parts B and B<sup>2</sup>, which are pivoted together, the latter having a knob or handle *b* projecting from one side and which when the crank is folded enters the conical head B' of the inner half of the crank. This knob or handle *b* is engaged by the usual spring *b'* to hold it in place when the crank is folded.

The apex of the conical head B' is provided with a slot *b*<sup>2</sup>, which should be a little less in width than the diameter of the barrel. The barrel C is formed of plate metal, which is bent into a tube with its edges slightly separated, forming a longitudinal slot C'. At its ends the barrel is provided with projecting teeth D and *d*, the former being preferably the larger. The teeth D should be of such a size as to closely fit within the opening *b*<sup>2</sup> in the crank-head. They are inserted within this opening and then forced outward into close contact with the inner surface of the head B', thus binding the barrel firmly to the crank-head. As the slot *b*<sup>2</sup> is narrower than the diameter of the tube or barrel, the side portions of the end of the barrel will engage firmly with the outer end of the head B'. This device forms a very simple and secure attachment. The tape F at one end is doubled, forming a loop, which is inserted within the slot C'. A staple G is then inserted within this loop while it is within the barrel. When the tape is pulled tight, it will bind the side of the staple G closely against the edges of the slot C' and prevent the tape from pulling out. Any form of pin which will be retained within the barrel may be used instead of the staple G, as shown.

The outer end of the barrel is closed by a washer E, which has two perforations *e*, adapted to receive the teeth *d*, which are then bent over upon the washer, securely holding it in place. The ends of the barrel being supported by the washer E and the crank-head B', the barrel is rendered very firm and strong. The tapes may be more quickly and securely fastened to the barrel in this manner than by the methods usually employed, and the construction is also very simple and cheap.

It is understood that the particular form of crank shown forms no part of my present invention, which resides in the barrel and the means employed for securing it to the crank-head and for securing the tape to the barrel. The form of barrel herein shown and described may be employed in connection with any form of crank.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—



A tape-reel, having a hollow, longitudinally-slotted barrel having projecting teeth at each end, and adapted to receive a fold of the tape within the slot, a pin or staple within the barrel and adapted to enter a fold in the tape, a  
5 crank-arm having a slot receiving the teeth upon one end of the barrel, and a washer

having perforations receiving the teeth upon the other end of the barrel, substantially as described.

JOHN G. EDDY.

Witnesses:

JONATHAN HALL,  
JOHN M. BARRY.