

F. MOSSBERG.  
 REEL.  
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962,654.

Patented June 28, 1910.

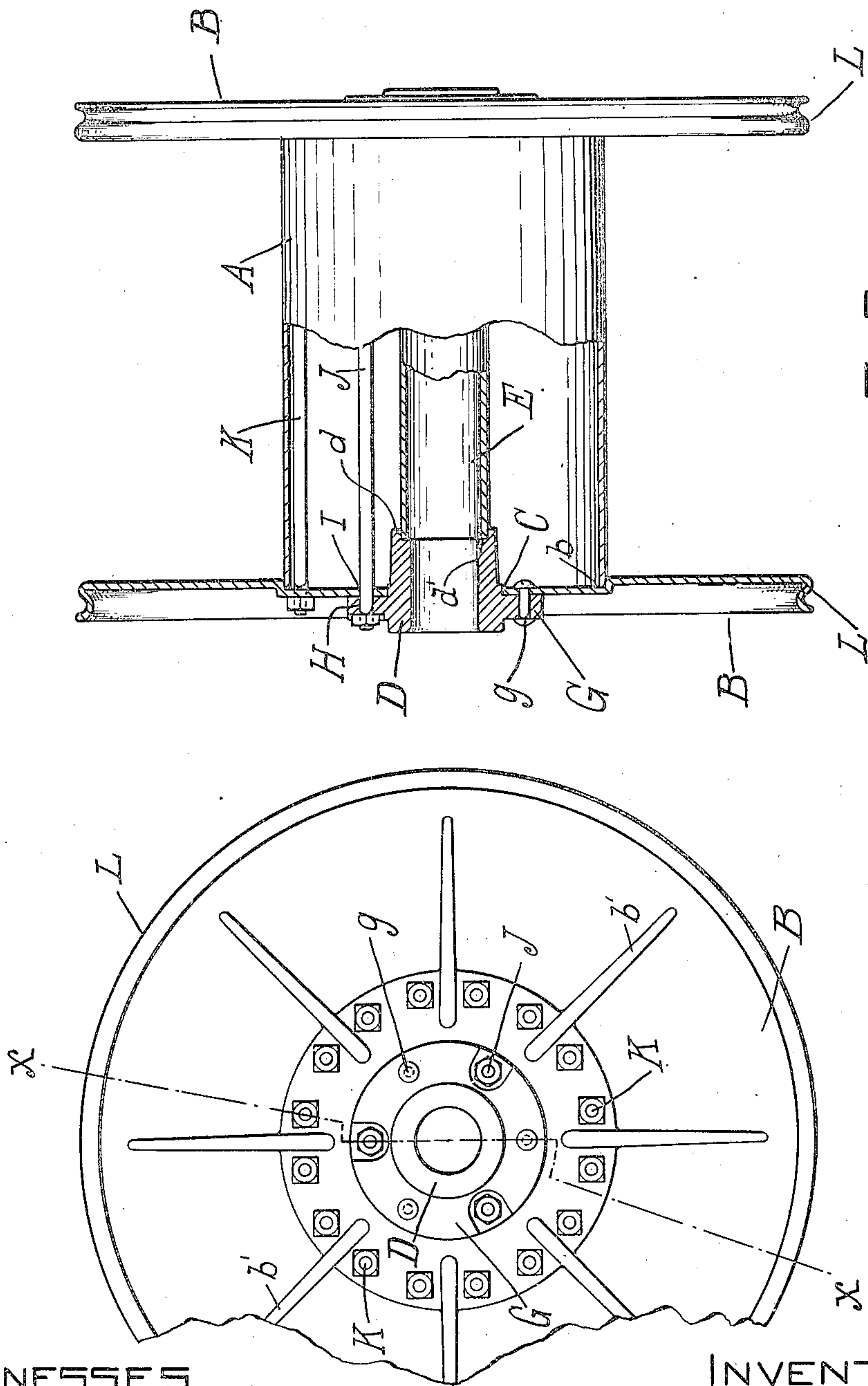


FIG. 2.

FIG. 1.

WITNESSES.

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# UNITED STATES PATENT OFFICE.

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REEL.

962,654.

Specification of Letters Patent. Patented June 28, 1910.

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*To all whom it may concern:*

Be it known that I, FRANK MOSSBERG, a citizen of the United States, residing at Attleboro, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Reels, of which the following is a specification.

My invention relates to metallic reels of pressed steel and like material which are intended to sustain cables and other heavy materials, wherein there is excessive strain upon the parts, particularly upon the heads.

It is the purpose of this invention to provide a reel capable of successfully resisting this strain, and particular novelty resides in the construction and combination of parts hereinafter set forth and made the subject matter of the appended claims.

In the drawings wherein like reference characters indicate like parts throughout the views,—Figure 1 is an end elevation partially broken away of a reel embodying my invention, and Fig. 2, a side elevation of the same partially in section, the section being taken on line  $x-x$  of Fig. 1.

My reel comprises the hollow metallic drum A and the pressed steel heads B at each end thereof. As the heads and parts of the reel adjacent thereto are similar, a detailed description of one end only of the structure is essential. Each head has the usual central circular recess  $b$  to receive the drum ends, and the radial ribs  $b'$ . The center of the recessed portion has a central aperture C which receives a cast iron hub D. This hub has an increased bore near its inner end, as at  $d$ , forming an internal shoulder  $d'$ , against which the end of a central metallic tube E abuts. Upon the exterior of the hub is an annular flange G against whose inner face the head B rests, and to which it is connected by a plurality of rivets  $g$ . Openings H and I are punched in the flange G and head B at points intermediate the rivets to receive bolts J. Near the drum the recessed portion of the head has a circularly disposed series of holes to receive bolts K. The heads B may if desired be provided with the peripheral flanges L.

It will be observed that the hub D forms not only an efficient and solid bearing for a shaft, but in conjunction with its flange forms a stable reinforcement for the reel

heads. It also receives the end thrust of the central tube E. The latter serves as a brace to prevent caving of the heads under the strains sustained by the ends of the hub while the reel is in use, especially in cabling machines. It also serves as a guide to the shaft while the reel is being mounted thereon, and assists in locating the opposite axial opening.

The position of the reel in operation is horizontal.

What I claim is,—

1. In a reel of the class described, the combination with the drum and heads, of hubs in the heads, external annular flanges upon the hubs in contact with the faces of the heads, an axial tube connecting the inner ends of the hubs, and bolts exterior of the tube connecting the flanges.

2. In a reel of the class described, the combination with the drum and heads, of hubs in the heads, external flanges upon the hubs resting against the heads, an axial tube connecting the inner ends of the hubs, bolts connecting the flanges through the heads, and rivets uniting the adjacent flanges and heads.

3. In a reel of the class described, the combination with the drum and heads, of hubs in the heads provided with internal shoulders, external flanges upon the hubs overlapping the heads, an axial tube having its ends within the hubs abutting against the shoulders, and means for connecting the flanges and heads.

4. In a reel of the class described, the combination with the heads provided with central circular recesses, of a drum seated in the recesses, a series of bolts adjacent the drum and connecting the heads, hubs in the heads concentric with the recesses provided with internal shoulders, integral flanges upon intermediate portions of the hubs in contact with the heads, an axial tube seated within the hubs and abutting against the shoulders, a second series of bolts within the first series connecting the opposite heads and flanges, and rivets also connecting each head with its adjacent flange.

In testimony whereof I have affixed my signature in presence of two witnesses.

FRANK MOSSBERG.

Witnesses:

WALTER LOUIS FROST,  
HORATIO E. BELLOWS.