F. MOSSBERG.

REEL.

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962,452. Patented June 28, 1910.

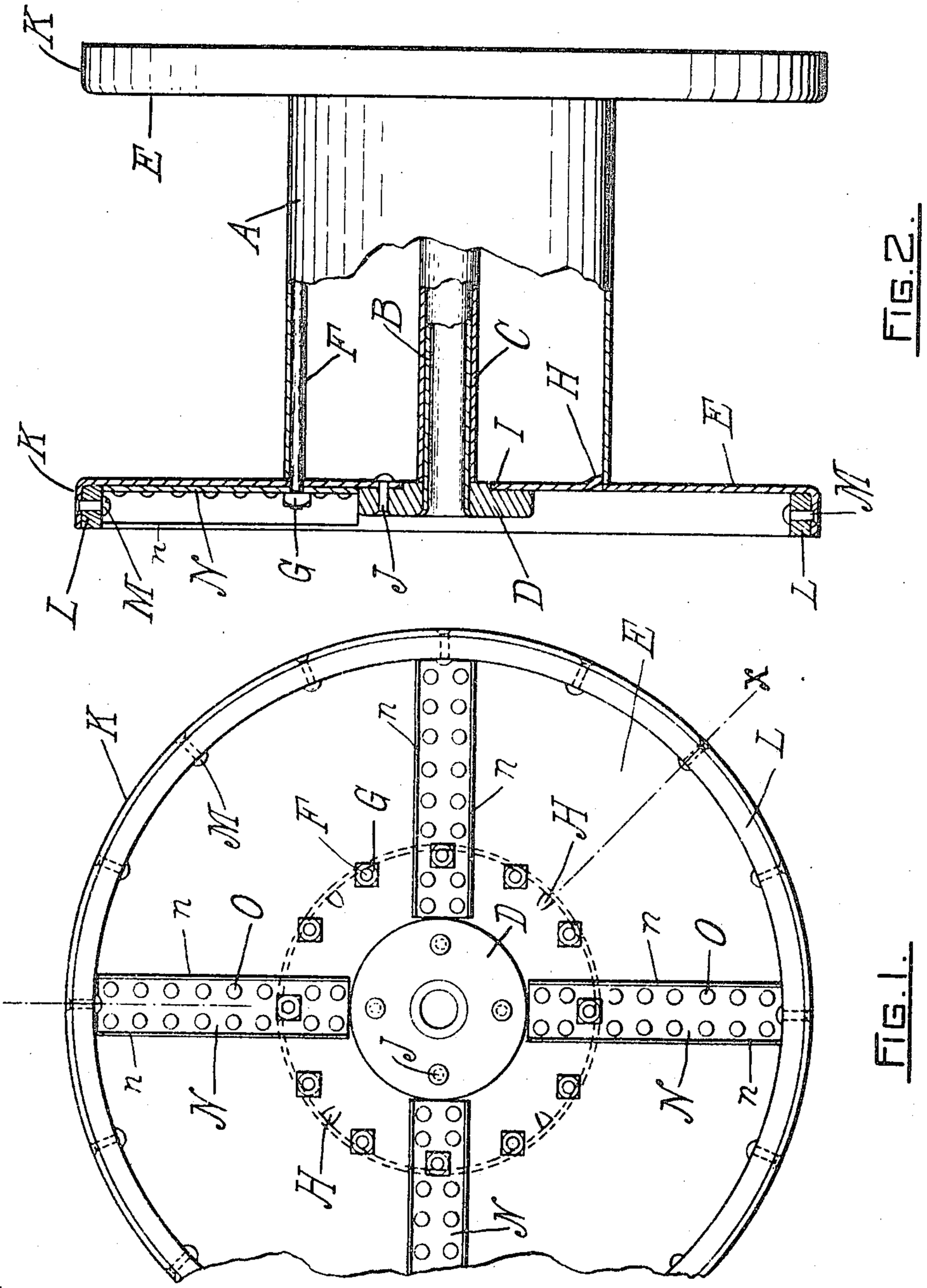

FIG. 2.

FIG. 1.

WITNESSES.

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REEL.

962,452. Specification of Letters Patent. Patented June 28, 1910.

Application filed June 14, 1909. Serial No. 501,921.

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, particularly those constructed of pressed steel. It has been found that in this class of reels, particularly in those of larger dimensions required to carry wire, cable, or other heavy masses sometimes amounting to several thousand pounds in weight, the margins and body portions of the heads bend or buckle when rolled upon the floor.

It is the purpose of the present invention to provide a reel which shall be capable of sustaining great loads; also to construct a reel in such a manner as to permit the use of comparatively thin stock in its manufacture whereby the portability of the reel will be facilitated and the expense of manufacture lessened.

To the above ends primarily my invention consists in the novel construction and combination of parts hereinafter set forth and illustrated in the accompanying drawings wherein,—

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 central longitudinal section on the line *x*—*x* of Fig. 1.

Like reference characters indicate like parts throughout the views.

My present invention is shown in conjunction with a reel comprising a steel drum A, an axial wrought iron tube B and sleeve C, hubs D, steel heads E, bolts F, and nuts G.

As both ends of the reel are similar a detailed description of one end only will be given.

In this instance integral pins H upon the head E abut against the drum A, and the head is retained in an annular seat I in the rear face of the hub D by rivets J passing through the hub. The sleeve C abuts against the hub D, and the end of tube B is inclosed by the hub and welded or otherwise connected thereto. The margin of the head is bent over outwardly to form a peripheral flange K. A ring or hoop L is bent up from a bar of iron and made to fit within the flange where it is retained by rivets M passing through the flange. Radially arranged upon the outer face of the head are a plurality of channel plates N whose angularly disposed lateral flanges *n* tend to enhance the resistance against radial strains. The ends of the plates abut against the hub and the reinforcing ring L, and are fixed to the head by rivets O.

The form of reel shown combines all the advantages above set forth, but it will be understood that reels may be designed which will embody some of the advantages without embodying all, and that such reels would be within the invention, the various features of which are not limited in their scope to constructions in which all said features are present.

What I claim is,—

1. In a reel of the class described, the combination with the drum and heads provided with outturned peripheral flanges, of rings fixed to the inner faces of the flanges, plates radially arranged upon the heads abutting against the rings and means whereby the reel may be rotatably mounted.

2. In a reel of the class described, the combination with the heads provided with peripheral outturned flanges, of rings fixed to the flanges, channel plates radially arranged upon the heads abutting against the rings, and means whereby the reel may be rotatably mounted.

3. In a reel of the class described, the combination with an axial tube, of hubs upon the ends of the tube, heads upon the hubs provided with peripheral flanges, rings upon the flanges, and radially disposed plates upon the heads abutting against the hub and rings.

4. In a reel of the class described, the combination with an axial tube, of hubs upon the ends of the tube provided with annular seats in their rear faces, a sleeve upon the tube abutting against the hubs, heads fixed in the annular seats, a drum intermediate the heads, and bolts within the drum connecting the heads.

5. In a reel of the class described, the combination with an axial tube, of hubs

upon the ends of the tube, a sleeve upon the tube abutting against the hubs, heads fixed to the hubs within the area of the hubs and provided with flanges, radially disposed plates upon the heads, rings within the flanges, a drum between the heads, and bolts within the drum connecting the heads.

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

FRANK MOSSBERG.

Witnesses:
WALTER LOUIS FROST,
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