July 12, 1932. F. C. MEYER 1,867,322

REEL

Filed July 3, 1930

Fig. 1

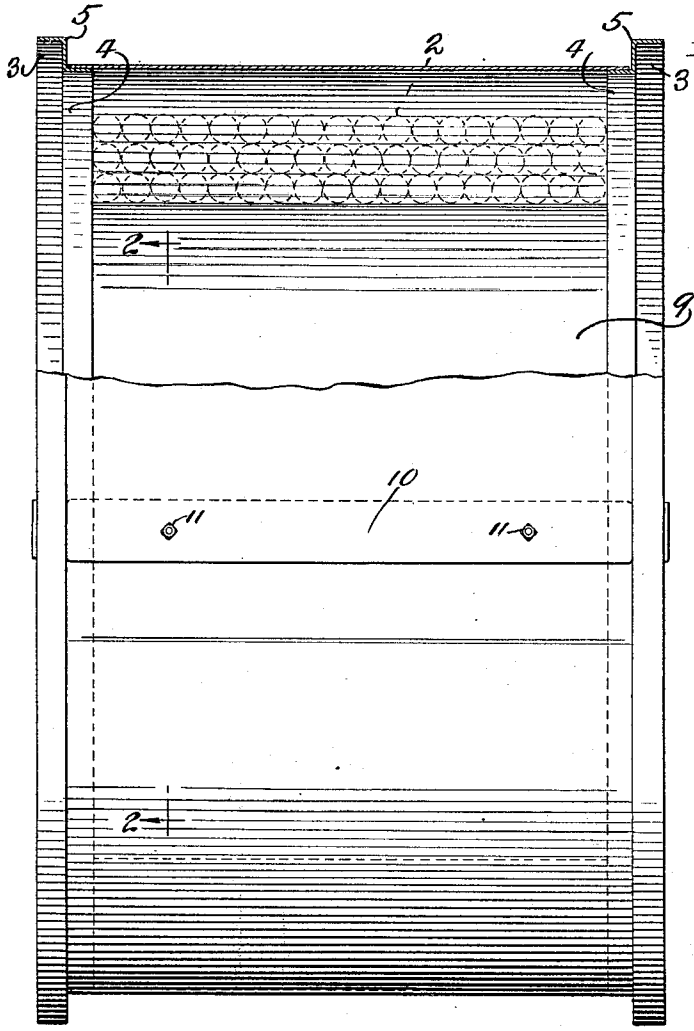


Fig. 2

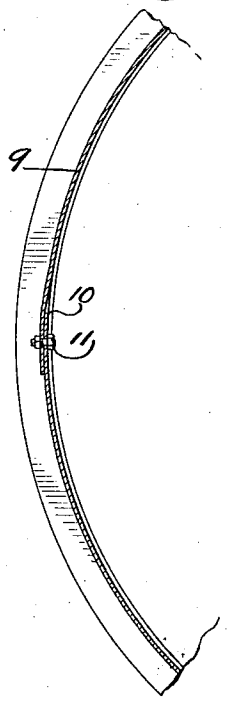
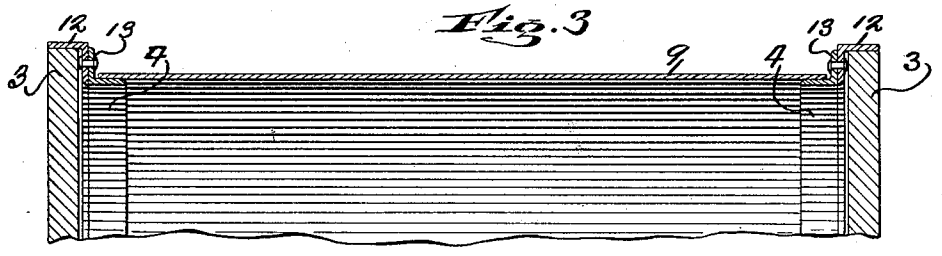


Fig. 3



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UNITED STATES PATENT OFFICE

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REEL

Application filed July 3, 1930. Serial No. 465,539.

This invention relates to reels, more particularly to reels for holding and protecting heavy material such as lead covered cables, and is particularly directed to providing an improved form of lagging for such reels.

Reels as at present constructed are usually provided with wooden lags which extend lengthwise of the reel and are spiked or secured to the end flanges of the reel for the purpose of covering and protecting the contents of the reel. In shipment, however, the lagging may become loose or be knocked off entirely so as to expose the material underneath to injury or if the lagging merely becomes loose cinders and gravel work between the lags to injure the cable beneath. A great deal of labor and expense are involved due to destruction of the reel flanges by the spikes by which the lagging is spiked to the reel flanges, necessitating repairs, drawing the spikes, culling the lags and stacking the lags for re-use. All of the drawbacks above pointed out are overcome by the present invention.

In the drawing:

Fig. 1 shows a reel embodying my invention in part sectional elevation;

Fig. 2 is a section on the line 2—2 of Fig. 1; and

Fig. 3 is a modification.

Referring to the drawing in detail: The reel comprises the usual body portion on which the cable or other material 2 is wound, while 3 designates the end flanges of the reel and 4 flanges of smaller diameter than the flanges 3 and lying inside the end flanges 3.

In accordance with the present invention I apply to the end flanges 3 a Z-flange 5 of metal, each flange completely surrounding the flange 3 of the reel and extending downwardly along the inner face of the flange and then inwardly of the reel so as to overlie and surround the flange 4. The Z-flange is secured permanently in place. I then apply a metal strip or lagging 9 about the reel between the end flanges 3, this strip overlying and resting upon that portion of each of the Z-flanges which surrounds the reel flanges 4. The ends of the lagging overlap as shown at 10, the overlapped ends being fastened together by bolts 11 or otherwise. This provides a construction in which the Z-flanges 5 are permanently positioned on the reel, it being unnecessary to remove these flanges for the purpose of removing the contents of the reel. These Z-flanges also function as tires when the reel is rolled over a surface, thereby protecting the end flanges 3 against injury.

It will be apparent also that the lagging strip 9 being of metal will not be damaged easily and inasmuch as it is in one piece may be readily removed and placed in position again so that the use of spikes and the like is avoided. It will be appreciated also that my construction also protects the inner flanges 4.

In the modification shown in Fig. 3 each of the Z-flanges 5 has been substituted by two sets of angles, one designated 12 immediately overlying the outer flanges 3 of the reel with the web lying along the inner face of the flange 3, the other designated 13 bolted to the angles 12 and immediately overlying the inner flanges 4 of the reel.

In this form of my invention I retain the metal strip or lagging 9, the same being wrapped about the reel and lying upon the base of the angles 13 much in the same fashion as in Fig. 1.

I have explained that the reel is of wood but it is to be understood that my invention may be employed to good advantage with metal reels if desired, without sacrificing its advantages.

What I claim is:—

1. In combination, a reel provided with end flanges, a metal flange surrounding each of said reel flanges, the base of each of said last mentioned flanges extending inwardly of the reel away from the reel end flanges, a metal lagging lying between the reel end flanges and resting upon said inwardly extending flange bases, and means for holding the metal lagging in place.

2. In combination, a reel provided with end flanges, a metal Z-flange surrounding each end flange, reel flanges intermediate said end flanges and adjacent thereto, each of said Z-flanges extending downwardly along the inner face of the end flanges and then inwardly away from said end flanges so as to

surround the said intermediate flanges, a metal lagging strip lying between the reel end flanges and surrounding and contacting with that portion of the Z-flanges overlying the intermediate reel flanges, and means for securing the lagging strip in place.

3. In combination with a reel provided with end flanges and intermediate flanges of smaller diameter adjacent thereto of an angle flange surrounding each end flange, the web of each angle flange extending along the inner face of each of said end flanges, an angle flange surrounding each of said intermediate reel flanges, the web of each of the last mentioned flanges lying along each of the webs of the first mentioned angle flanges, means for securing the first and second mentioned flanges to each other, and metal lagging overlying the bases of the second mentioned angle flanges.

This specification signed this 30th day of June, 1930.

FRED C. MEYER.