No. 843,943. PATENTED FEB. 12, 1907.

H. L. HEGLAND.

ATTACHABLE FLANGE FOR WHEELS.

APPLICATION FILED MAR. 16, 1906.

Fig. 1.

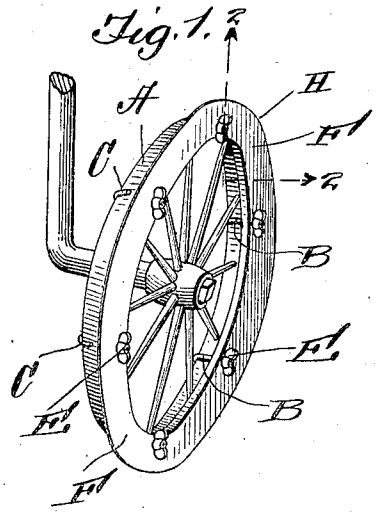


Fig. 2.

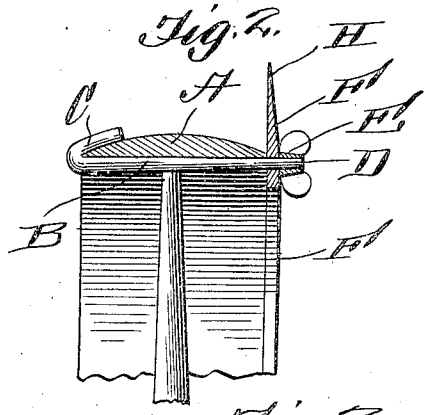
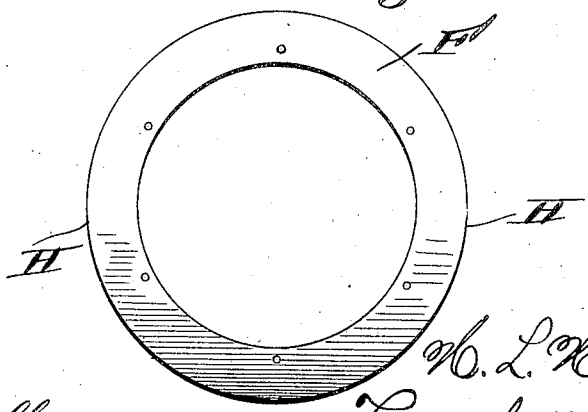


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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ATTACHABLE FLANGE FOR WHEELS.

No. 843,943. Specification of Letters Patent. Patented Feb. 12, 1907.

Application filed March 16, 1906. Serial No. 306,409.

To all whom it may concern:

Be it known that I, HARNY L. HEGLAND, a citizen of the United States, residing at Canton, in the county of Fillmore and State of Minnesota, have invented certain new and useful Improvements in Attachable Flanges for Wheels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in an attachable flange for wheels of plows, &c., whereby the wheel may be guided and prevented from lateral movement when being driven over a field.

My invention comprises, essentially, a bolt, one end of which is bent hook-shaped and adapted to fit over the edge of the rim of a wheel, while its other end receives a flange, which is held against an edge of the rim by means of a thumb-nut.

The invention consists, further, in various details of construction and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which—

Figure 1 is a perspective view showing the application of my device to a wheel. Fig. 2 is a cross-sectional view through the rim of a wheel, showing the manner in which my device is held thereto; and Fig. 3 is a detail view of the device removed from the rim of a wheel.

Reference now being had to the details of the drawings by letter, A designates the rim of a wheel of the usual construction.

B designates a rod having a hook-shaped end C, designed to engage over one edge of the rim of a wheel, and one end of said rod has threads D, adapted to receive the winged nut E. F designates a plate or disk having a cutting edge H and apertured to receive the shank portion of said rod B.

It will be noted that the outer circumference of the rim is convexed and the ring is held to the marginal edge of the rim in such a manner that when the weight of the apparatus rests upon the lower portion of the ring the wheel, being set at an inclination when in operation, may cause the ring to yield without interference from the rim, which would be the case if the outer circumference of the rim had an angle intermediate the same and the edge. By reason of the convexed circumference of the rim it will be noted that the ring could yield slightly under the weight coming upon the same without any wear upon either the ring or the rim.

When adjusting the device for use, the rod, which is first caught over the rim in the manner shown, is in readiness to receive the plate F, which is placed over the rod and held in a clamping relation against the edge of the rim, when the thumb-nut is tightened, thus securely holding the disk or plate F to the rim at right angles thereto and in such a position that it will cut into the ground as the wheel rotates, thus serving to prevent a lateral movement to the wheel while being drawn over the ground.

From the foregoing it will be observed that by the provision of the device shown a simple and efficient device is afforded which may be attached to wheeled plows or to vehicles of other kinds, the purpose of the invention being to hold the wheel from lateral movement while the plows or cultivators are being drawn through the ground. When the device is not in use, it may be easily and quickly removed from the rim of the wheel.

What I claim is—

In combination with an angled axle, a wheel mounted upon the angled end of the axle and positioned at an inclination, a rim to said wheel having its outer surface convexed and its inner surface flat, a ring tapering upon one face thereof, hooks engaging over one edge of the rim and having shank portions which pass through the ring, nuts for holding said ring against one edge of the rim, a portion of the convexed surface of the rim being adapted to bear against the face of the ring as the latter has a tendency to yield under the weight upon the wheel, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HARNY L. HEGLAND.

Witnesses:
A. L. TOLLEPEN,
J. C. WHITE.