E. KOHL.

HANDLE SUPPORTING ATTACHMENT FOR WHEELS.

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1,171,853.

Patented Feb. 15, 1916.

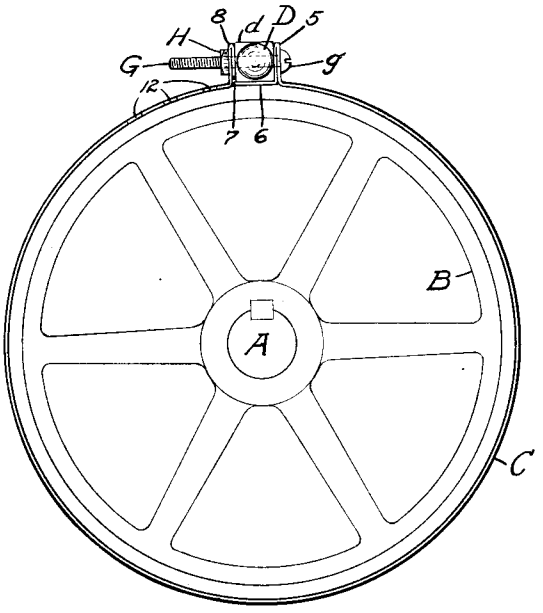


Fig. 1.

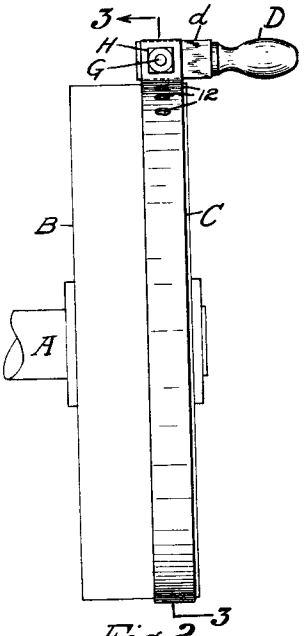


Fig. 2.

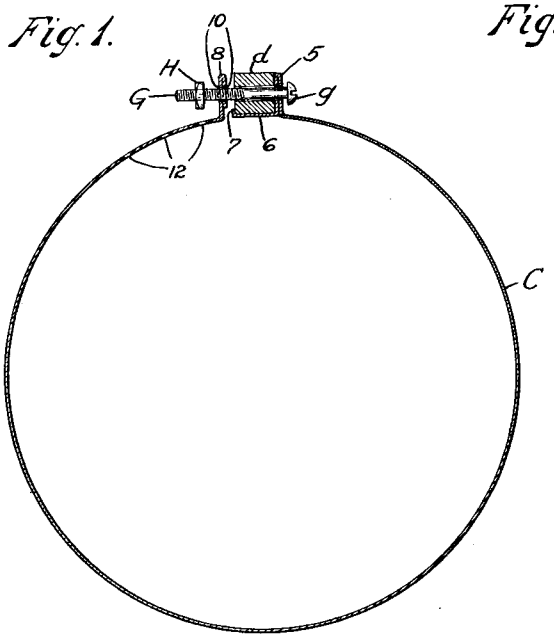


Fig. 3.

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HANDLE-SUPPORTING ATTACHMENT FOR WHEELS.

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To all whom it may concern:

Be it known that I, EDWARD KOHL, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Handle-Supporting Attachments for Wheels; and I 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 pertains to make and use the same.

This invention relates to improvements in handle-supporting attachments for wheels, and pertains more especially to a handle-supporting attachment which is adapted to be applied to a wheel to be rotated through the medium of the handle of said attachment at the peripheral surface of the wheel.

The primary object of this invention is to provide a handle-supporting attachment of the character indicated which is simple in construction and readily applied to the wheel to be rotated by hand.

With this object in view, and to the end of attaining any other advantage hereinafter appearing, this invention consists in certain features of construction, and combinations and relative arrangement of parts, hereinafter described in this specification, pointed out in the claims, and illustrated in the accompanying drawings.

In said drawings, Figure 1 is an end view of a shaft which is operatively provided with a pulley or wheel provided with my improved handle-supporting attachment. Fig. 2 is a left-hand side elevation relative to Fig. 1. Fig. 3 is a central section of my improved handle-supporting attachment.

Referring to Figs. 1 and 2 of the drawings, A indicates a shaft which is operatively provided with a pulley or wheel B which is to be rotated by hand although sometimes if not generally rotated in some other manner. My improved handle-supporting attachment is shown detached in Fig. 3 and comprises a sheet-metal strap C adapted to extend circumferentially of and be clamped to the peripheral surface of a wheel, and in Figs. 1 and 2 said strap is shown mounted on and extending circumferentially of the peripheral surface of the wheel B. D indicates the handle of my improved attachment, and *d* the inner end-portion of said handle, and said inner end-portion of the handle is preferably quadrangular in cross-section. The handle is interposed between opposite end-portions of the strap C and arranged parallel with the axis of the wheel upon the application of the strap to a wheel as shown in Figs. 1 and 2, and said handle upon the application of my improved attachment to the wheel is arranged with opposite sides of the inner end-portion thereof approximately radial to said wheel. Preferably one end-portion of the strap C has an outwardly projecting arm 5 overlapping one side of the inner end-portion of the handle, and said arm is preferably made strong enough by forming the arm by folding together a portion of the strap in such a manner that said arm comprises two thicknesses of the metal composing the strap, and said end-portion of the strap extends, as at 6, from the inner end of said arm across the wheel-facing surface of the inner end-portion of the handle, as at 7, and the other end-portion of the strap terminates in an outwardly projecting arm 8 which is preferably formed by folding together a portion of the strap in such a manner that the last-mentioned arm comprises a double thickness of the metal composing the strap between the outer end of said last-mentioned arm and the terminal end 7 of the first-mentioned end-portion of the strap. Means for securing together the arms 5 and 8 and the handle D and for clamping or tightening the strap to the peripheral surface of the wheel B are provided and comprise a bolt which (see Fig. 3) has its shank G extending loosely through the arm 5 and loosely through the inner end-portion *d* of the handle and loosely through a bolt-hole 10 formed in the arm 8. Said bolt has a head *g* arranged at the outer side of the arm 5, and a nut H is screwed onto the shank of the bolt at the outer side of the arm 8. It will be observed that upon manipulating the nut H to tighten it against the arm 8, the arms 5 and 8 and the handle interposed between said arms are clamped or tightly secured together, and the strap C has such length relative to the diameter of the wheel to which it is to be applied that the strap upon clamping the arms 5 and 8 and the handle D together is clamped to the peripheral surface of said wheel.

I would here remark that the strap C is not only provided with a bolt-hole 10 in its portion which forms the arm 8 but is also provided adjacent said arm with additional bolt-holes 12 which are spaced equidistantly

longitudinally of the strap so that the strap may be applied to the bolt at any one of the last-mentioned holes and thereby enable the strap to be adjusted to a wheel smaller in diameter than the wheel illustrated.

Manipulation of the nut H to loosen it relative to the arm 8, when my improved handle-supporting attachment is operatively applied to a wheel as shown in Figs. 1 and 2, is all that is necessary to render said attachment free to be removed from the wheel, and obviously said arm is loose relative to the handle preparatory to the application of the attachment to a wheel. Upon reference to Fig. 3 it will be observed that the terminal end 7 of the strap holds the handle in place relative to the arm 5 preparatory to the application of the handle-supporting attachment to a wheel, and that the member 6 of the strap prevents rotation of the handle on the bolt.

What I claim is:—

1. The combination of a handle and a supporting attachment therefor comprising a strap adapted to extend circumferentially of and be clamped to the peripheral surface of a wheel, a handle adjacent the end-portions of said strap, and means whereby the handle and said end-portions of the strap are secured together and the strap clamped to the aforesaid surface.

2. The combination of a handle and a supporting attachment therefor comprising a strap adapted to extend circumferentially of and be clamped to the peripheral surface of a wheel, a handle interposed between the end-portions of said strap and arranged substantially parallel with the axis of said wheel upon the application of the strap to the wheel, and means removably securing the strap to the wheel.

3. The combination of a handle and a supporting attachment therefor comprising a sheet-metal strap adapted to extend circumferentially of and be clamped to the peripheral surface of a wheel, a handle interposed between the end-portions of said strap, a bolt extending loosely through the end-portions of the strap and loosely through the handle and having a head arranged at the outer side of one end-portion of the strap, a nut screwed onto the bolt at the outer side of the other end-portion of the strap, and means for preventing rotation of the handle on the bolt.

4. The combination of a handle and a supporting attachment therefor comprising the combination, with a handle adapted to be applied at the periphery and to be arranged substantially parallel with the axis of a wheel, of a sheet-metal strap adapted to extend circumferentially of and be clamped to the peripheral surface of said wheel, one end-portion of the strap having an outwardly projecting arm overlapping one side of the inner end-portion of the handle and the other end-portion of the strap terminating in an outwardly projecting arm arranged at the opposite side of said portion of the handle, and means whereby the handle and said arms of the end-portions of the strap may be secured together and the strap tightened on the peripheral surface of the aforesaid wheel.

5. The combination of a handle and a supporting attachment therefor comprising the combination, with a handle adapted to be applied at the periphery and to be arranged substantially parallel with the axis of a wheel, of a sheet-metal strap adapted to extend circumferentially of and be clamped to the peripheral surface of said wheel, one end-portion of the strap having an outwardly projecting arm overlapping one side of the inner end-portion of the handle and said end-portion of the strap extending from the inner end of said arm across the handle to and overlapping the opposite side of said portion of the handle, and the other end-portion of the strap terminating in an outwardly projecting arm arranged opposite the last-mentioned side of said portion of the handle, and means for rendering the strap tight relative to the peripheral surface of the aforesaid wheel when the strap is mounted on said wheel.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

EDWARD KOHL.

Witnesses:
B. C. Brown,
Lee B. Green.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."