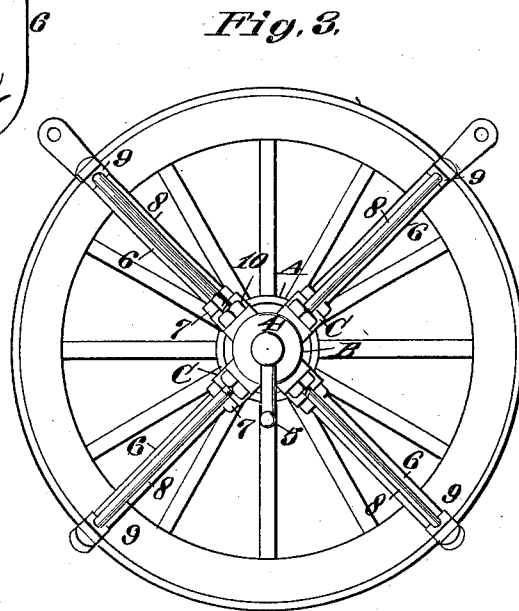
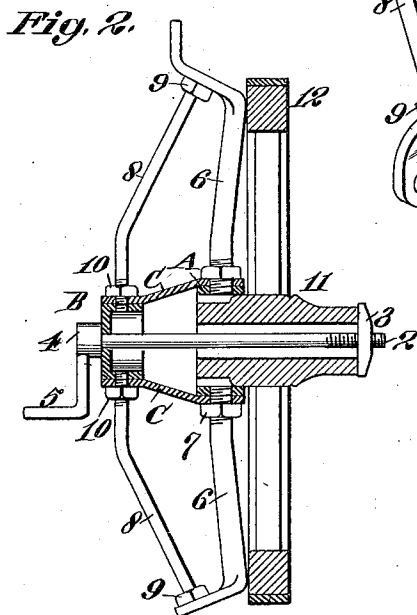
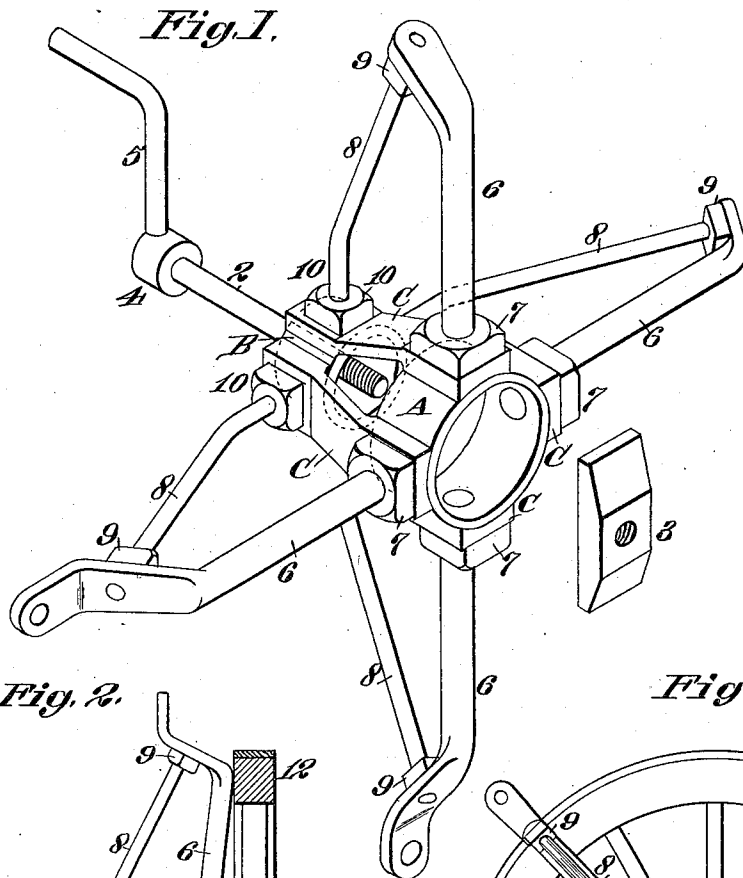


J. S. CREIGHTON.
WHEEL DISHING DEVICE.
APPLICATION FILED JAN. 21, 1911.

1,029,279.

Patented June 11, 1912.



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UNITED STATES PATENT OFFICE.

JAMES S. CREIGHTON, OF SMITHFLAT, CALIFORNIA.

WHEEL-DISHING DEVICE.

1,029,279.

Specification of Letters Patent.

Patented June 11, 1912.

Application filed January 21, 1911. Serial No. 603,833.

To all whom it may concern:

Be it known that I, JAMES SAMUEL CREIGHTON, citizen of the United States, residing at Smithflat, in the county of Eldorado and State of California, have invented new and useful Improvements in Wheel-Dishing Devices, of which the following is a specification.

This invention relates to a device for dishing wheels in the operation of applying cold tires.

It is the object of this invention to provide a means for dishing a wheel, preparatory to placing a tire thereon, which is simple in construction and practical in operation, and which is adapted for use on wheels of various sizes and diameters.

A further object is to provide a device of the above character which is adjustable and which is so constructed as to be readily knocked down when out of use and to economize space.

The invention consists of the parts and the combination and construction of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a perspective view of the invention. Fig. 2 is a vertical section showing the invention as applied. Fig. 3 is a front elevation of same.

In the drawings A represents a ring which forms the main support of the device, this ring being connected to a headed ring B by equi-spaced bars or plates C to form a cylindrical or tubular supporting member. While this supporting member is shown as constructed of separate parts, it is manifest that it may be formed of one piece and may be of any suitable shape, the essential feature being to provide a hollow or tubular member, one end of which is open to slide over a wheel hub, and the other end is shaped to form a bearing for a rod 2 which is loosely mounted therein. The rod 2 extends longitudinally through the tubular supporting member and projects some distance beyond the outer end of the ring A, this outwardly projecting end being threaded to receive a broad nut or plate 3 which is adapted to be screwed on and off the rod 2 as the latter is rotated, as later described. The inner end of the rod 2 is provided with a collar 4 which is designed to bear against

the outer face of the head B as shown in Fig. 2, a crank 5 being formed on the collar 4 by means of which the rod 2 is rotated.

A series of immovable arms 6, in this case four in number are mounted on the outer periphery of the ring A, and are disposed radially thereon at equi-distances apart. These arms 6 are formed of rods or pipe and are screw-threaded into the ring A to admit of ready removal or attachment, a lock nut 7 being provided on each arm 6 to prevent its being easily loosened. The outer ends of the arms 6 are flattened and bent backwardly and are perforated near their ends to loosely receive the end of a brace rod 8 which extends from the outer end of the arm 6 back to and is threaded in the ring B at its other end. A collar 9 is provided near the outer end of each rod 8 to form an abutment to bear against the inner surface of the flattened portion of the arm 6 adjacent the perforation therein, thus forming a bearing against which the outer end of the arm 6 rests. A lock nut 10 is placed on the inner end of each rod 8 adjacent the ring B to prevent the rod being easily displaced.

In the operation of this invention, the threaded outer end of the rod 2 is passed through the axial bore of a wheel hub 11 as shown in Fig. 2, and the nut plate 3 is screwed thereon to clamp the wheel between the plate 3 and the radial arms 6, these arms contacting the rim or felly 12 of the wheel. The inner portion of the hub 11 enters the ring A and is slidable therein. The rod 2 now being rotated by means of the crank 5, the nut plate 3 is caused to move inwardly thereon by reason of its threaded connection therewith, which action causes the wheel hub 11 to move inwardly in relation to the felly 12 which is held stationary by means of the arms 6 on the ring A. The result of this operation is to dish the wheel, that is to say, to throw the spokes out of vertical alinement and slightly contract the felly 12, which contraction is permitted by reason of the slight play between the several sections of which it is composed, as is well understood in the art. The felly being contracted to the desired extent, the tire is then set in place thereon, after which the hub 11 is returned to normal by loosening the nut 3, or by reversing the wheel on the rod 2, so as to draw the hub in an opposite direction.

In this manner the perimeter of the wheel felly may be drawn tight against the inner surface of the tire.

When it is desired to dismantle or knock-
5 down the device to economize space when
not in use, the arms 6 and the rods 8 are un-
screwed from their respective threaded
sockets and removed from the central sup-
10 porting member. This permits of the de-
vice being compactly packed for boxing and
shipping.

Having thus described my invention,
what I claim and desire to secure by Letters
Patent is—

15 A wheel dishing device, including two
rings axially in line, one of said rings closed
at its outer end and the other adapted to re-
ceive a wheel hub which is slidable therein,
radial arms removably fixed in the second
20 named ring and contacting with the wheel

felly when the hub is introduced into the
ring, said arms having outwardly turned
flattened ends, inclined brace rods having
their inner ends removably secured in the
first named ring and their outer ends abut- 25
ting against the flattened, outwardly turned
arms, a rod having a collar contacting with
the outer face of the closed ring, and a
screw threaded plate fitting against the
outer end of the wheel hub, through which 30
the rod is turnable to advance the hub with
relation to the felly.

In testimony whereof I have hereunto set
my hand in the presence of two subscribing
witnesses.

JAMES S. CREIGHTON.

Witnesses:

GUY E. WENTWORTH,
J. F. LIMPINSEL.

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