No. 762,618. PATENTED JUNE 14, 1904.

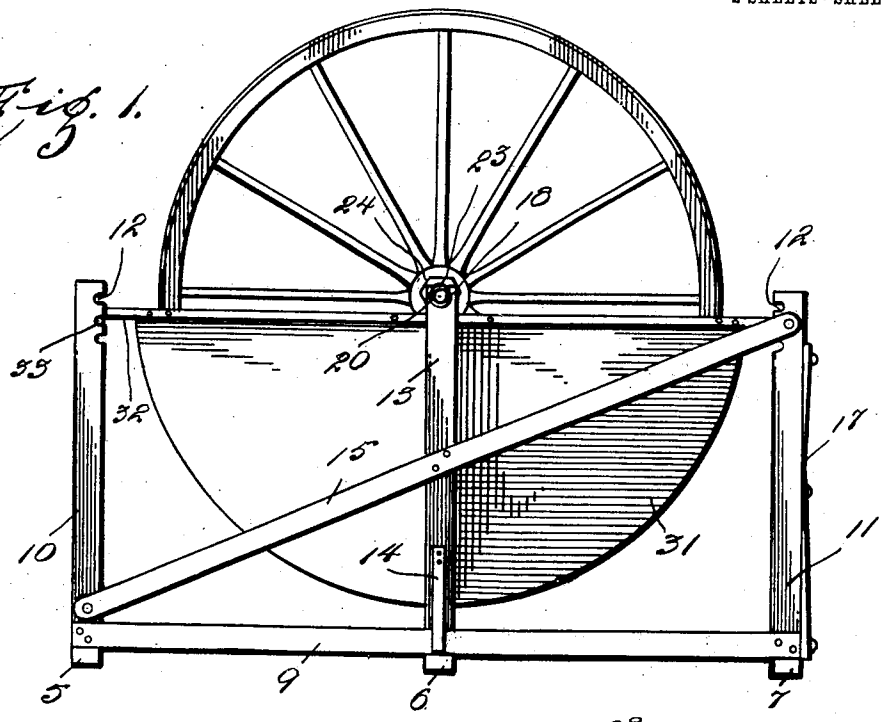
H. F. DIEDERICH.

WHEEL WASHER.

APPLICATION FILED NOV. 3, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.



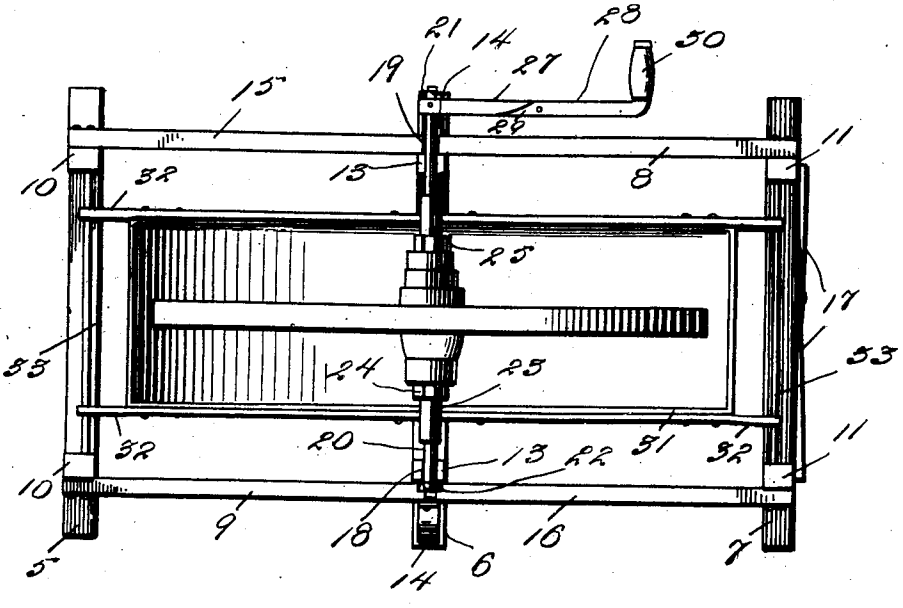


Fig. 2.

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No. 762,618. PATENTED JUNE 14, 1904.

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NO MODEL. 2 SHEETS—SHEET 2.

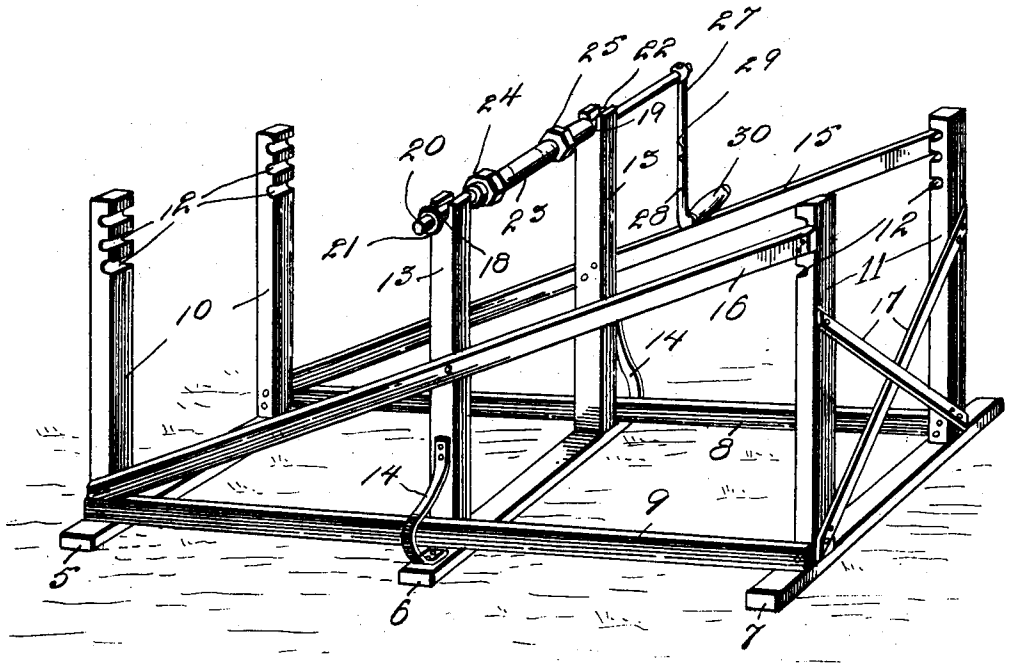


Fig. 3.

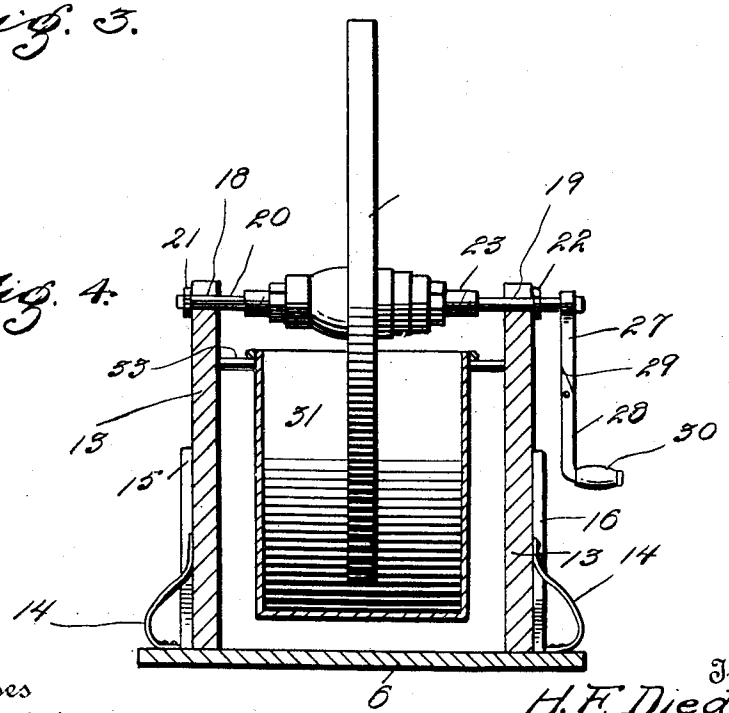


Fig. 4.

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No. 762,618. Patented June 14, 1904.

UNITED STATES PATENT OFFICE.

HENRY F. DIEDERICH, OF ALEXANDRIA, SOUTH DAKOTA.

WHEEL-WASHER.

SPECIFICATION forming part of Letters Patent No. 762,618, dated June 14, 1904.

Application filed November 3, 1903. Serial No. 179,702. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. DIEDERICH, a citizen of the United States, residing at Alexandria, in the county of Hanson, State of South Dakota, have invented certain new and useful Improvements in Wheel-Washers; 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.

This invention relates to appliances for washing wheels or oiling them; and it has for its object to provide a construction including means for holding and rotating the wheel to be treated and a tank for holding the liquid to be applied to the wheel, the tank being adjustable as to height, so that it may have proper relation to the wheel.

A further object of the invention is to provide a construction which will be simple, cheap, and durable.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation showing the present apparatus with a wheel in place ready for washing. Fig. 2 is a top plan view of the structure shown in Fig. 1. Fig. 3 is a perspective view of the frame with the tank removed. Fig. 4 is a transverse vertical section through the apparatus in a plane including the wheel-supporting shaft.

Referring now to the drawings, there is shown a construction embodying the parallel sills 5, 6, and 7, of equal lengths and upon which at the ends thereof are secured the longitudinal sills 8 and 9, these longitudinal and transverse sills forming what may be termed the "base" of the frame of the apparatus. Upon the sills 5 and 7 are erected the pairs of uprights 10 and 11, which latter touch the inner faces of the sills 8 and 9. In the upper portions of the inner transverse faces of the uprights 10 and 11 are formed the notches 12, the inner transverse faces meaning the faces of the uprights 10 that are toward the uprights 11 and the faces of the uprights 11 that are toward the uprights 10, the object of these notches being presently explained.

Upon the transverse sills 6 and against the inner faces of the sills 8 and 9 are erected the intermediate uprights 13, which latter are held against swaying longitudinally of the sill 6 by means of the braces 14, that are attached to the uprights and to the outer ends of the sill 6 outside of the sills 8 and 9. The several uprights are parallel, and the uprights at each side are connected by the diagonal braces 15 and 16, respectively, which are bolted to the upper ends of the uprights 11, to the intermediate portions of the uprights 13, and to the lower ends of the uprights 10. The uprights 11 are braced by the diagonal braces 17, which are attached thereto and to the ends of the sill 7.

The upper ends of the uprights 13 are notched, as shown at 18 and 19, to form bearings for a shaft 20, having flanges 21 and 22, which by contact with the uprights 13 hold the shaft against longitudinal displacement in the bearing, this shaft being designed to receive and support a wheel to be washed or otherwise treated. The central portion 23 of the shaft 20 is slightly enlarged and is screw-threaded, and on it are screwed the nuts 24 and 25, which are adjusted to clamp against the ends of the hub of the wheel which is disposed upon this central enlarged portion. Such a wheel is illustrated at 26. To rotate the shaft 20 and the wheel thereon, a crank is provided comprising a member 27, fixed upon one end of the shaft 20, and a second member 28, which is pivoted to the member 27, so that it may be brought into alinement therewith, the member 27 having a laterally-projecting finger 29, which by engagement with the member 27 holds the member 28 against pivotal movement in one direction from said alinement. The member 28 has a handle 30 attached thereto at right angles, by means of which the shaft may be rotated.

In connection with the frame and shaft described there is employed a semicircular tank 31, which is disposed between the uprights at opposite sides of the frame and from the ends of which project the handles or supports 32, the length of the tank from end to end of the handles being such that when the tank is in place these handles or supports will rest upon a supporting-bar 33, which is engaged in the

notches 12 of the end uprights, the body portion of the tank lying with its ends in close proximity to the supporting-bars. As illustrated, when the tank is in place and wheel upon the shaft 20 the shaft may be rotated, and the spokes will successively enter the tank and then emerge, it being understood that when the wheel is to be washed water is placed in the tank, or if it is desired to oil the wheel or treat it with any other liquid such liquid is substituted for the water. By reason of the various notches in the end uprights the tank may be adjusted to different elevations to satisfy different specific conditions.

In practice modifications of the specific construction shown may be made, and any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

1. In an apparatus of the class described, the combination with a frame including uprights adapted for engagement of supports at different elevations, of supports engaged with the uprights, a trough held upon the supports, and means supported by the frame for holding the wheel rotatably part way in the trough.

2. In an apparatus of the class described, the combination with a frame including uprights having each a vertical series of sockets, of supporting-bars removably engaged in sockets of mutually adjacent uprights, a trough having terminal projections resting upon the bars, additional uprights, and a wheel-holding shaft rotatably mounted in said uprights and extending over the trough.

3. In an apparatus of the class described, the combination with a frame including end pairs of uprights and an intermediate pair of uprights, the end pairs of uprights having each a vertical series of sockets, of a supporting-bar removably engaged with a pair of sockets of each pair of end uprights, a trough having terminal projections resting upon the supporting-bars, a shaft rotatably mounted upon the intermediate uprights and a crank for the shaft, said shaft having means for clamping a wheel thereon to rotate therewith.

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

HENRY F. DIEDERICH.

Witnesses:
M. E. CONLAN,
H. J. MOHR.