

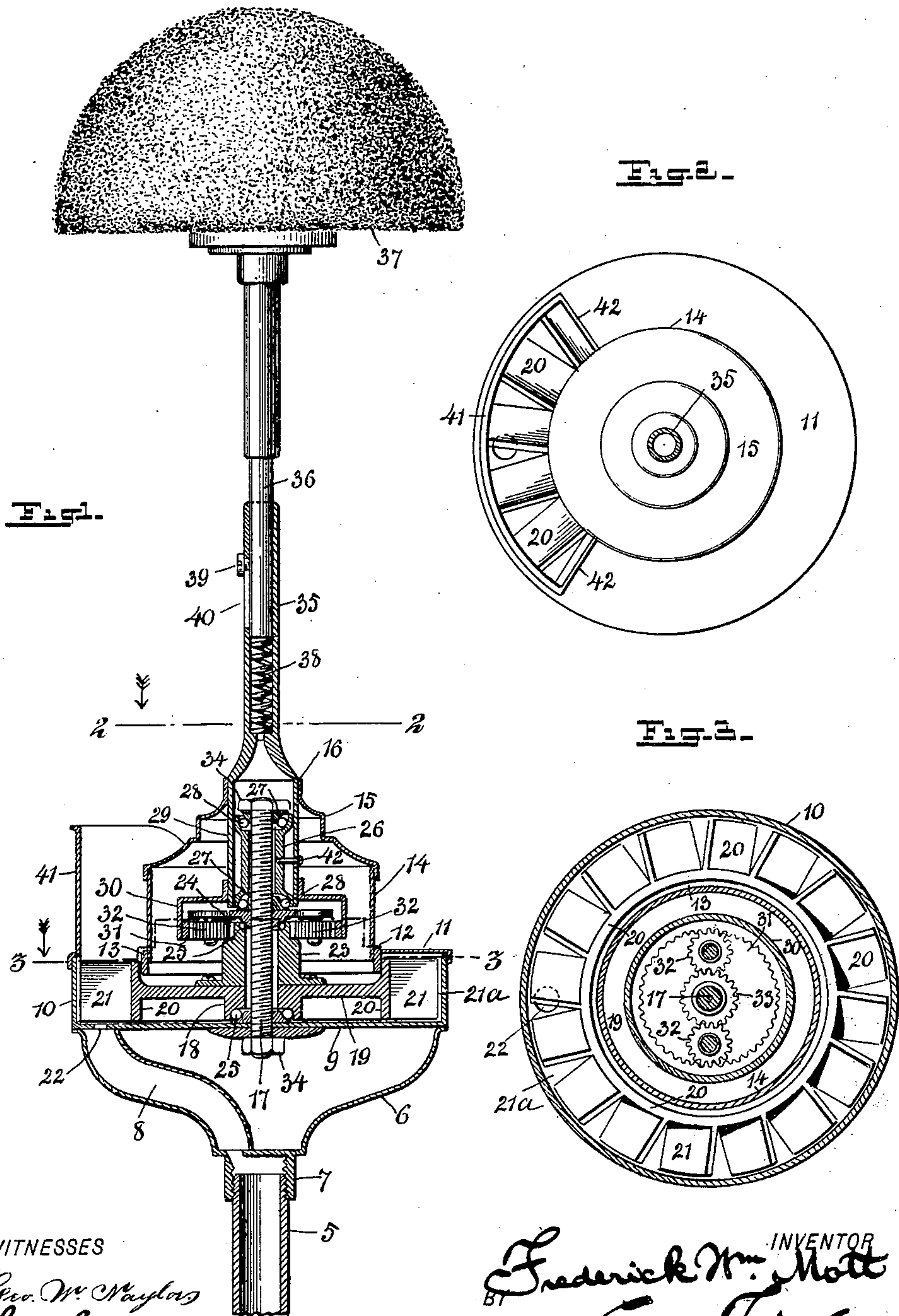
No. 678,967.

Patented July 23, 1901.

F. W. MOTT.  
DEVICE FOR WASHING CARRIAGES.

(Application filed Feb. 7, 1901.)

(No Model.)



WITNESSES

Geo. W. Mayhew  
F. W. Sturck

INVENTOR  
Frederick W. Mott

BY Edgar Tater  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

FREDERICK WILLIAM MOTT, OF DUNTON, NEW YORK.

## DEVICE FOR WASHING CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 678,967, dated July 23, 1901.

Application filed February 7, 1901. Serial No. 46,315. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK WILLIAM MOTT, a citizen of the United States, residing at Dunton, in the county of Queens and State of New York, have invented certain new and useful Improvements in Devices for Washing Carriages, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for use in washing carriages, windows, and for other and similar purposes; and the object thereof is to provide an improved device of this class which is simple in construction and operation and by means of which a carriage, window, or other device or article may be quickly and easily cleaned and which is adapted to be held in the hand and to be moved about from point to point in the use thereof.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same reference characters in each of the views, and in which—

Figure 1 is a sectional side elevation of my improved carriage-washing device; Fig. 2, a section on the line 2 2, and Fig. 3 a section on the line 3 3 of Fig. 1.

In the practice of my invention I provide a tubular handle 5, with which is connected a yoke-shaped support 6, provided with a screw-threaded neck 7, and in one side of which is a tubular passage 8, and the sides of the yoke-shaped support 6 are connected by a transverse plate 9, having an annular flange or rim 10, over which is placed a cap 11, having a central circular opening 12, around which is placed a ring or band 13, with which is connected a cylindrical casing 14, closed by a conical cap 15, provided at the apex with a central opening 16.

Passing centrally through the plate 9 and through the cylindrical casing 14, partially through the conical cap 15 thereof, is a screw-threaded shaft 17, which passes loosely through the hub 18 of a water-wheel 19, the perimeter of which is provided with a flange or rim 20, having paddles 21 set at an angle to the shaft 17, and the flange or rim 20 of the

wheel 19 and the annular flange or rim 10 of the plate 9 form a race 21<sup>a</sup> for the water, which passes through the tubular handle 5, through the tubular passage 8, and through a port or opening 22 in the plate 9 into said race, where it is discharged onto the paddles 21.

Secured to the top surface of the wheel 19 is a hub 23, through which the shaft 17 loosely passes, and above said hub said shaft is provided with a collar 24, and between the said collar and the hub 23 and at the lower end of the hub 18 of the wheel 19 are placed ball-bearings 25.

Loosely mounted on the shaft 17, above the collar 24, is a sleeve 26, and said shaft is provided at each end of said sleeve with a collar 27, and between said sleeve and said collars are ball-bearings 28, and said sleeve is free to turn, as will be readily understood, on said shaft.

Passing loosely through the opening 16 in the conical cap 15 of the cylindrical casing 14 is a tube 29, the inner end of which incloses the inner end of the sleeve 26 and is provided with a cylindrical casing 30, having an internal gear 31, which operates in connection with two pinions 32, supported by arms on the collar 24, and these pinions 32 operate in connection with a circular gear 33 on the upper end of the hub 23, which is secured to the top of the wheel 19.

The shaft 17 is provided both at its upper and lower ends with a nut 34, by which the sleeve, hubs, collars, and bearings thereon are connected, and the tube 29 is provided with a tubular stem 35, in which is inserted the shafts 36 of a brush 37, and within the stem 35 of the tube 29 is placed a spring 38, on which the shaft 36 of the brush 37 bears, and said shaft 36 is provided with a headed pin or screw 39, which passes through a slot 40 in the tubular stem 35 of the tube 29, and by means of this construction the brush is free to move longitudinally in the stem 35 and is automatically projected by the spring 38, which forms a yielding bearing for the shaft of said brush.

Secured to one side of the plate 11, which covers the water-race 21<sup>a</sup>, is a segmental casing or shield 41, having radial end pieces 42



and which together with the cylindrical casing 14 form a discharge-spout for the water, the plate 11 being cut away or removed between the segmental casing or shield 41 and the cylindrical casing 14.

The operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

10 A water-supply pipe is connected with one end of the tubular handle 5 in the usual or any desired manner, and when the water is turned on it passes through said tubular handle and through the passage 8 into the water-race 21<sup>a</sup>, where it operates on the paddles 21 of the wheel 19 and said wheel is rapidly revolved to the right. In this operation the hub 23 revolves the pinions 32, which in turn revolve the tube 29, with which the brush 37 is connected, and said brush is also rapidly revolved.

The tube 29, with which the brush is connected, is secured to the sleeve 26 by a screw or other suitable device, as shown at 42, and the brush 37 may be of any desired construction or may consist of a mop or sponge, and the water passes from the race 21<sup>a</sup> through the discharge-spout formed by the casing 41 and is thrown onto the brush or onto the article or surface in connection with which it is held, and said article or surface may thus be quickly and easily washed and cleaned, it being understood that the water may be thrown onto said article or surface so as to rinse the same after the brush has been used.

This device is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended, and it will be apparent that changes in and modifications of the construction described may be made without departing from the spirit of my invention or sacrificing its advantages.

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

1. A device of the class described, comprising a tubular handle, a circular casing connected therewith and in communication therewith, a wheel provided with a flange or rim forming in connection with said casing, a water-race, said wheel being also provided with paddles which move in said race, a stationary shaft on which said wheel revolves, a supplemental casing connected with the water-race, a tube passing through said supplemental casing and geared in connection with the hub of said wheel, said tube being designed to serve as a brush-support, and being adapted to be turned by said wheel, and the wall of said race being open on the side adjacent to the brush, substantially as shown and described.

2. A device of the class described, comprising a tubular handle, a circular casing connected therewith, a water-wheel mounted in the said casing and forming in connection

therewith a water-race in communication with said handle, an annular plate or cover for said water-race open at one side, a cylindrical casing within said annular plate or cover, a tube passing into said cylindrical casing and geared in connection with the water-wheel, said tube being adapted to support a brush, substantially as shown and described.

3. A device of the class described, comprising a tubular handle, a circular casing connected therewith, a water-wheel mounted in said casing and forming in connection therewith a water-race, a shaft passing through said wheel, and a brush-support geared in connection with said wheel, substantially as shown and described.

4. A device of the class described, comprising a tubular handle, a casing connected therewith, a water-wheel mounted in said casing and forming in connection therewith a race which is in communication with said handle, said case being open at the side thereof opposite the handle, a cylindrical casing connected with said race, a stationary shaft passing through said water-wheel and through said cylindrical casing, and a tube passing into said cylindrical casing opposite the handle and geared in connection with the water-wheel, said tube being provided with a hollow stem adapted to receive the handle of a brush, substantially as shown and described.

5. A device of the class described, comprising a tubular handle, a circular casing connected therewith, a water-wheel mounted in said casing and forming in connection therewith a water-race which is in communication with said handle, said race being open on the side opposite the handle and provided with a segmental water-discharge spout, a supplemental cylindrical casing secured within said race, a shaft passing centrally through both the said casings and through said water-wheel, a tubular sleeve mounted on said shaft, a tube inclosing said sleeve and secured thereto and projecting from the supplemental casing, said tube being geared in connection with the hub of the water-wheel and being adapted to support a brush, substantially as shown and described.

6. A device of the class described, comprising a tubular handle, a circular casing connected therewith, a water-wheel mounted in said casing and forming in connection therewith a water-race which is in communication with said handle, a cylindrical casing secured within said race, a shaft mounted therein and passing through the water-wheel, a sleeve mounted on said shaft, a tube passing into said cylindrical casing and inclosing said sleeve and secured thereto, said tube being geared in connection with the water-wheel, and being adapted to support a brush, substantially as shown and described.

7. A device of the class described, comprising a circular casing, a water-wheel mounted therein, and forming in connection with said



casing a water-race, a stationary shaft passing through said wheel, and a tube into which said shaft passes, said tube being geared in connection with said water-wheel and being  
5 adapted to support a brush, substantially as shown and described.

In testimony that I claim the foregoing as

my invention I have signed my name, in presence of the subscribing witnesses, this 5th day of January, 1901.

FREDERICK WILLIAM MOTT.

Witnesses:

F. A. STEWART,

F. TELLER.