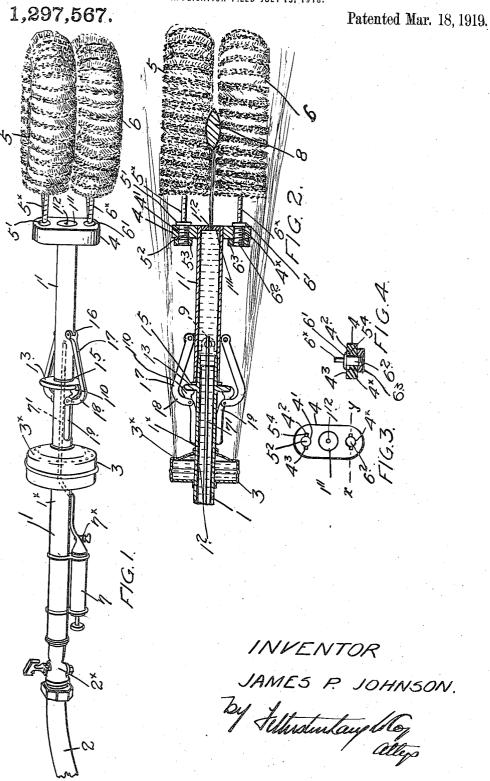
J. P. JOHNSON.
AUTOMOBILE WASHER.
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UNITED STATES PATENT OFFICE.

JAMES PIERSON JOHNSON, OF TORONTO, ONTARIO, CANADA.

AUTOMOBILE-WASHER

1,297,567.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, James Pierson Johnson, of the city of Toronto, in the county of York, in the Province of Ontario, Can-5 ada, have invented certain new and useful Improvements in Automobile-Washers, of which the following is the specification.

My invention relates to improvements in automobile washers and the object of the 10 invention is to devise a washer particularly adapted for cleaning the wheels, spokes and similar parts of an automobile and which will be simple and cheaply constructed and quickly operated and it consists essentially 15 of a tubular handle, to one end of which the water supply is connected, a cross head carried by the opposite end of the handle, a pair of brushes carried by the cross head, one at each end, and extending parallel with and to each side of the longitudinal axis of the handle and means for feeding a stream of water from the tubular handle to between the brushes and streams of water extending around the outside of the 25 brushes as hereinafter more particuraly explained by the following specification.

Figure 1, is a general perspective view

of my washer.
Fig. 2, is a longitudinal sectional view 30 through the major portion of my washer showing the brushes in full and a spoke portion inserted between the brushes.

Fig. 3 is a sectional plan view looking at

the cross head.

Fig. 4, is a sectional view on line x-y

In the drawings like characters of reference indicate corresponding parts in the

various figures.

1 indicates a tubular handle which is divided into two portions 1^x and 1'. 2 indicates a flexible water supply pipe which is connected to one end of the tubular handle 1 by a control cock 2^x. Intermediately of 45 the length of the handle portion 1^x are formed a series of perforations 1². 3 indicates an annular casing forming an annular chamber surrounding that portion of the tubular handle 1x containing the per-50 forations 12. The outer face of the casing 3 in proximity to its edge is slightly inclined inwardly toward the outer edge of the casing, such inclined portion being provided with perforations 3* adapted to throw 55 an annular series of streams of water di-

verging slightly outward as they pass toward the end of the handle. The handle portion 1x in proximity to its outer end is provided with an annular flange 13, the extreme end of the portion 1' at the outside of 60 the annular flange 13 being tapered inwardly. The opposing end of the handle portion 1' is provided with an internally tapered portion which fits around the exterior tapered portion at the end of the 65

handle portion 1^x.

15 indicates an annular washer fitting upon the annular flange 13 and against which the opposing end of the handle portion 1' bears. 1° indicate lugs extending 70 from the handle portion 1'. 1° indicate links pivoted to the lugs 1° and provided at their opposite ends with inturned ends 18 extending around the edge of the flange 13. 19 indicate levers pivotally mounted upon the 75 inturned ends of the links 18 and provided with jawed ends 1¹⁰ adapted to grip the edge of the annular flange 1³.

When it is designed to engage the handle portion 1' with the handle portion 1' the 80 tapered ends thereof are passed one over the other and the levers turned into a position substantially at right angles to the tubular handle in engagement with the edge of the flange 13. They are then thrown 85 inwardly against the handle portion 1' thereby drawing the handle portion 1' and 1* together into a tight position against the washer 15. The outer end of the handle portion 1' is provided with a closure 111 90 provided with a central perforation 1¹² through which a stream of water is designed

4 indicates a cross head carried by the outer end of the handle portion 1', the arms 95 of the cross head being provided with orifices 4x and 4', each provided with diametrically opposing recesses 42 and 43. 5 and 6 indicate brushes provided with shanks 5× The outer ends of the shanks are 100 provided with annular shoulders 5' and 6' from which extend threaded stems 52 and 62 which pass freely through the orifices 4× and 4′, the shoulders 5′ and 6′ bearing against the outer face of the cross head 105 and the opposite ends of the stems projecting beyond the opposite face of the cross head. 53 and 63 indicate nuts which are screwed on to the projecting ends of the stems 5² and 6². By this means the stems 110

are secured rigidly in position, any turning movement being prevented by a projection 54 extending from each of the stems 52 and 62 so as to fit into one of the recesses 42 or 5 43. The opposite recess is provided so that the brushes 5 and 6 may be interchanged in such a way that the opposite outer faces of the brushes may be brought into an adjacent position when the face that is in use

10 has become worn.

7 indicates a soap pump, which is secured by any suitable means to the handle portion 1x, the nozzle of the pump being provided with a closing cock 7* and an extension tube 7' 15 passing into the interior of the tubular handle 1 and passing longitudinally thereof as indicated by dotted lines in Fig. 1 and full lines in Fig. 2. By this means the soap, when fed to my device, is carried through 20 the casing 3 and is not fed so as to mingle with the water until well past this casing so that only clear water passes through the perforations 3× of the casing, the soapy water being fed through the perforation 1¹² di-25 rectly on to the spoke being cleaned.

In Fig. 2, I have indicated a spoke at 8. If it is only desired to use the exterior perforations a closing plug 9 may be provided as indicated by dotted lines in Fig. 2, fitting 30 into the end of the tubular handle portion 1x. Also if desired the tubular portion 1' may be disengaged from the tubular portion 1x by throwing out the levers 19 and the tubular member corresponding to the tubular 35 member 1' provided with a single brush may be inserted in place when it is desired to clean the ordinary parts of an automobile.

When using my device for cleaning the spokes the spoke is inserted between the 40 brushes 5 and 6 as clearly indicated in Fig. 2, the stream of water provided with the necessary amount of soap being directed against the spoke, the brushes being moved back and forth during this operation. Of

45 course, immediately/after the soap is supplied to the interior of the handle the cock 7× is closed so as to prevent the pressure of water passing back into the pump.

Although I have shown brush members it

50 will, of course, be understood that other cleaning devices might be employed, such as mops arranged in pairs and held in a similar manner.

From this description it will be seen that 55 I have devised a very simple device par-ticularly adapted for cleaning spokes and

other similar members where it is convenient to clean both sides of such members at the same time and such as will be cheap to construct, easily operated and can be readily 60 adapted for cleaning any part of an auto-

What I claim as my invention is:

1. An automobile washer comprising a tubular handle member, to one end of which a 65 water supply is adapted to be connected, a cross head carried by the opposite end, and cleaning members extending from each end of the cross head in a direction parallel to and at each side of the longitudinal axis of 70 the tubular member with a space between permitting the embracing of parts to be cleaned.

2. An automobile washer comprising a tubular handle member, to one end of which a 75 water supply is adapted to be connected, a cross head carried by the opposite end, cleaning members extending from each end of the cross head in a direction parallel to and at each side of the longitudinal axis of the tu- 80 bular member, and a closure for the outer end of the tubular handle having a perforation adapted to feed a stream of water be-

tween the cleaning members.

3. An automobile washer comprising a tu- 85 bular handle member, to one end of which a water supply is adapted to be connected, a cross head carried by the opposite end, cleaning members extending from each end of the cross head in a direction parallel to and at 90 each side of the longitudinal axis of the tubular member, a closure for the outer end of the tubular handle having a perforation adapted to feed a stream of water between the cleaning members, and means for feed- 95 ing an annular series of streams around the outside of the cleaning members.

4. An automobile washer comprising a tubular handle member, to one end of which a water supply is adapted to be connected, a 106 cross head carried by the opposite end, cleaning members extending from each end of the cross head in a direction parallel to and at each side of the longitudinal axis of the tubular member, and means for feeding an 105 annular series of streams around the outside

of the cleaning members.

JAMES PIERSON JOHNSON.

Witnesses:

M. Egan, N. CARTER.