No. 844,510. PATENTED FEB. 19, 1907.

G. D. FRASER.

WATER MOTOR.

APPLICATION FILED SEPT. 11, 1906.

Fig. 1

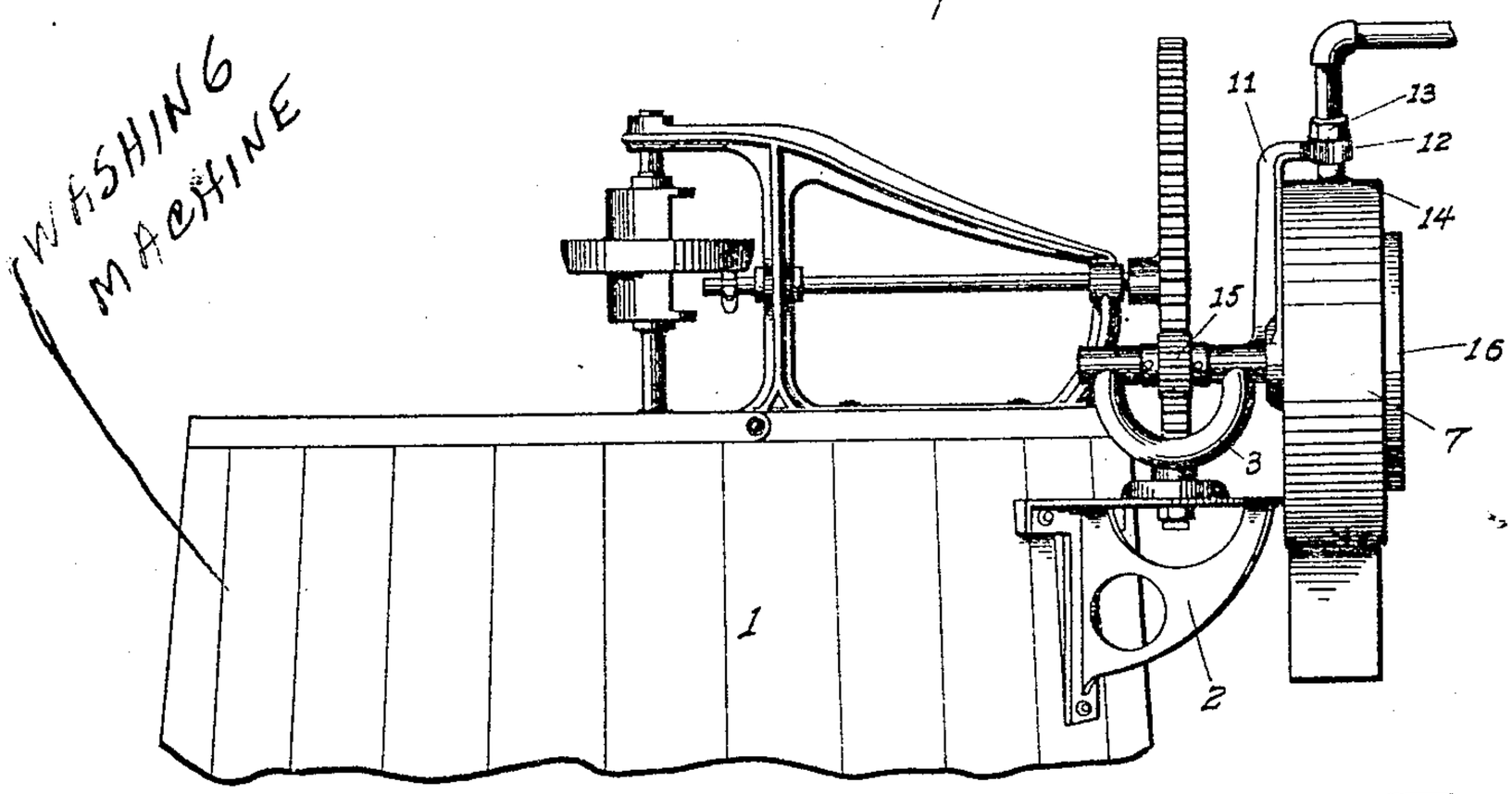


Fig. 2

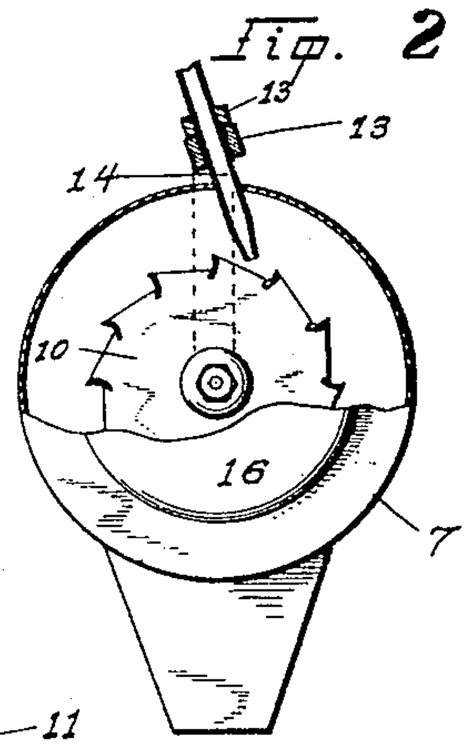


Fig. 3

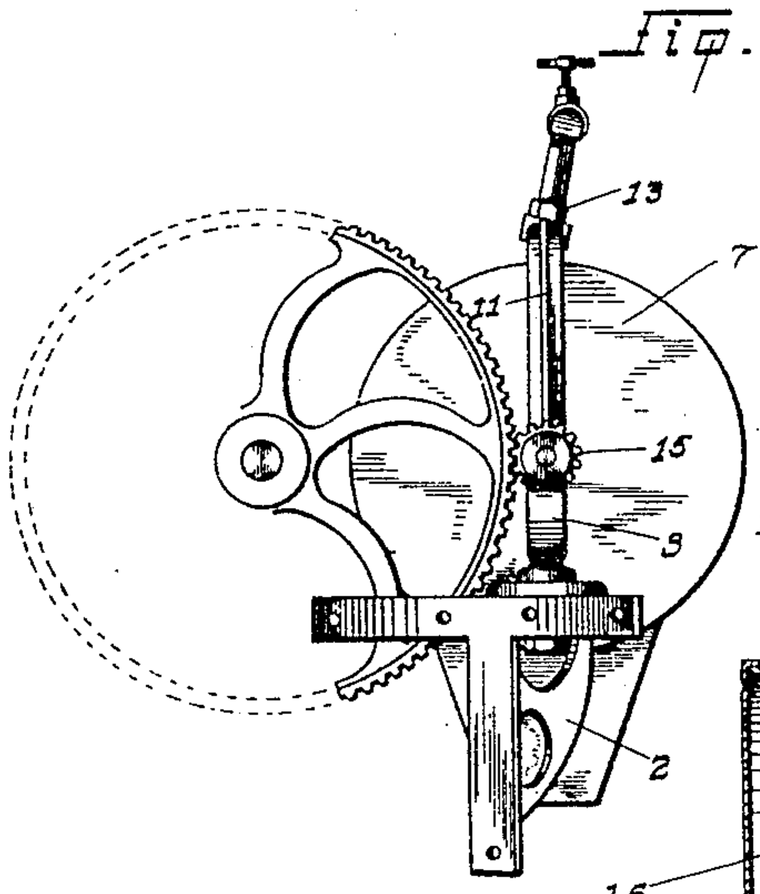
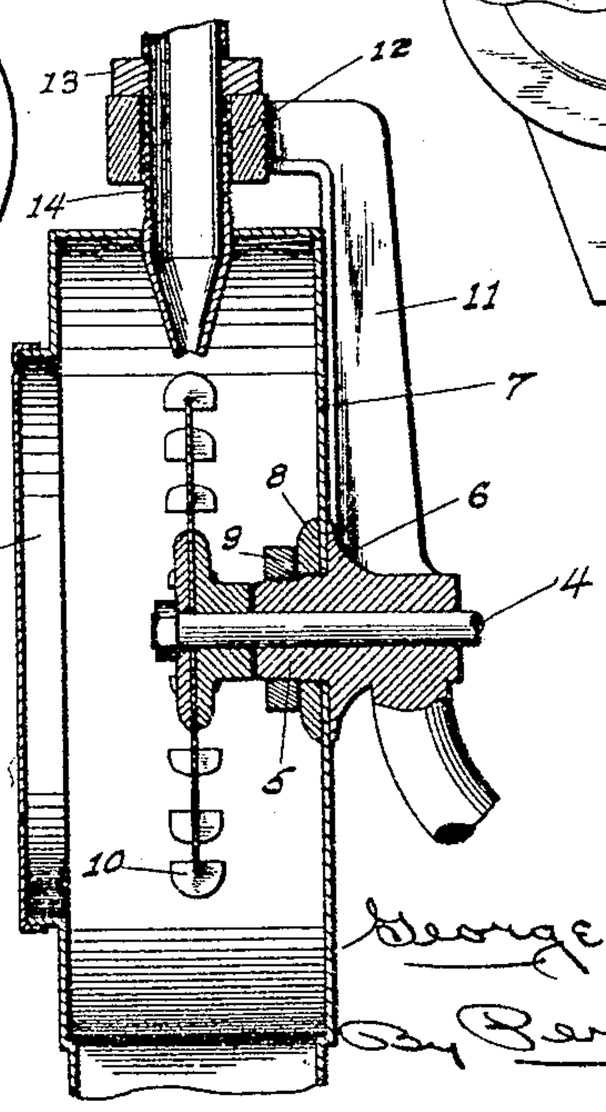


Fig. 4



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UNITED STATES PATENT OFFICE.

GEORGE D. FRASER, OF SUTTER CREEK, CALIFORNIA.

WATER-MOTOR.

No. 844,510. Specification of Letters Patent. Patented Feb. 19, 1907.

Application filed September 11, 1906. Serial No. 334,138.

To all whom it may concern:

Be it known that I, GEORGE D. FRASER, a citizen of the United States, and a resident of Sutter Creek, in the county of Amador and State of California, have invented certain new and useful Improvements in Water-Motors; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and the characters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in water-motors, my object being to form a compact, perfect operating, and more effective motor than is now in use, also one that can be more substantially constructed with less time and trouble, all as will appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a side elevation of the device. Fig. 2 is an end elevation of the same, partly broken out. Fig. 3 is an end elevation in full. Fig. 4 is a vertical section of the motor.

1 designates a washing-machine or other device. Secured thereto is a bracket-shelf 2, to the upper side of which is bolted or otherwise fastened a bifurcated shaft-journal 3, in which is journaled the shaft 4 of the motor.

5 is a threaded shoulder forming a component part of the journal-box 3 and provided with a flange 6. The casing 7 of the motor fits over said shoulder 5 and against said flange 6, and 8 is a washer fitting over said shoulder 5 and against the casing 7 and secured in that position by means of a nut 9, mounted on said threaded shoulder 5.

10 is the wheel of the motor, secured to the shaft 4 and bearing against the shoulder 5.

11 is an arm extending upward from the journal-box 3 and provided with an inclined orifice 12, into which may be screwed the nozzle 14, and the same may be secured therein by means of a boss 13 on the upper side of said nozzle secured and forming a component part of the said nozzle.

15 is a pinion-wheel mounted on the shaft 4 between the furcations of the journal-box 3 and adapted to connect the motor with any machine—such as a washing-machine, emery-wheel, sewing-machine, &c.

16 is a removable cap whereby the interior of the motor may be reached.

The main features in this my improved device are the compactness of the same, occasioned by the bifurcated journal-box 3, having means whereby the casing may be closely secured thereto, and the arm 11, having the inclined orifice adapted to receive the nozzle, permitting of a straight nozzle being used.

Realizing that many parts of this motor are old, I have purposely confined myself to the specific detail of the construction of the new features thereof. Many small changes in this detail or construction may, however, be resorted to at will without departing from the spirit of my invention.

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

1. In a device of the character described a bifurcated journal-box, a motor-casing securely attached thereto, and an arm forming a component part thereof and extending upward and being provided with an inclined orifice adapted to receive a water-nozzle, and means for securely holding said nozzle in said orifice, as set forth.

2. In a device of the character described a bifurcated journal-box, a threaded shoulder thereon, a flange on said shoulder, a motor-casing mounted on said shoulder and bearing against said flange, a washer mounted on said shoulder and bearing against the inner side of said casing, a nut mounted on the threads of said shoulder and bearing against said washer, and a shaft journaled in said journal-box and through said shoulder, and a motor-wheel secured to said shaft within said casing and bearing against said shoulder, as set forth.

3. In a device of the character described a bifurcated journal-box, a motor-casing securely attached thereto, an arm forming a component thereof and extending upward and being provided with an inclined interiorly-threaded orifice, a nozzle screwed into said orifice and provided with a boss bearing against the sides of said orifice, as set forth.

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

GEORGE D. FRASER.

Witnesses:
W. L. ROSE,
D. BESTA.