

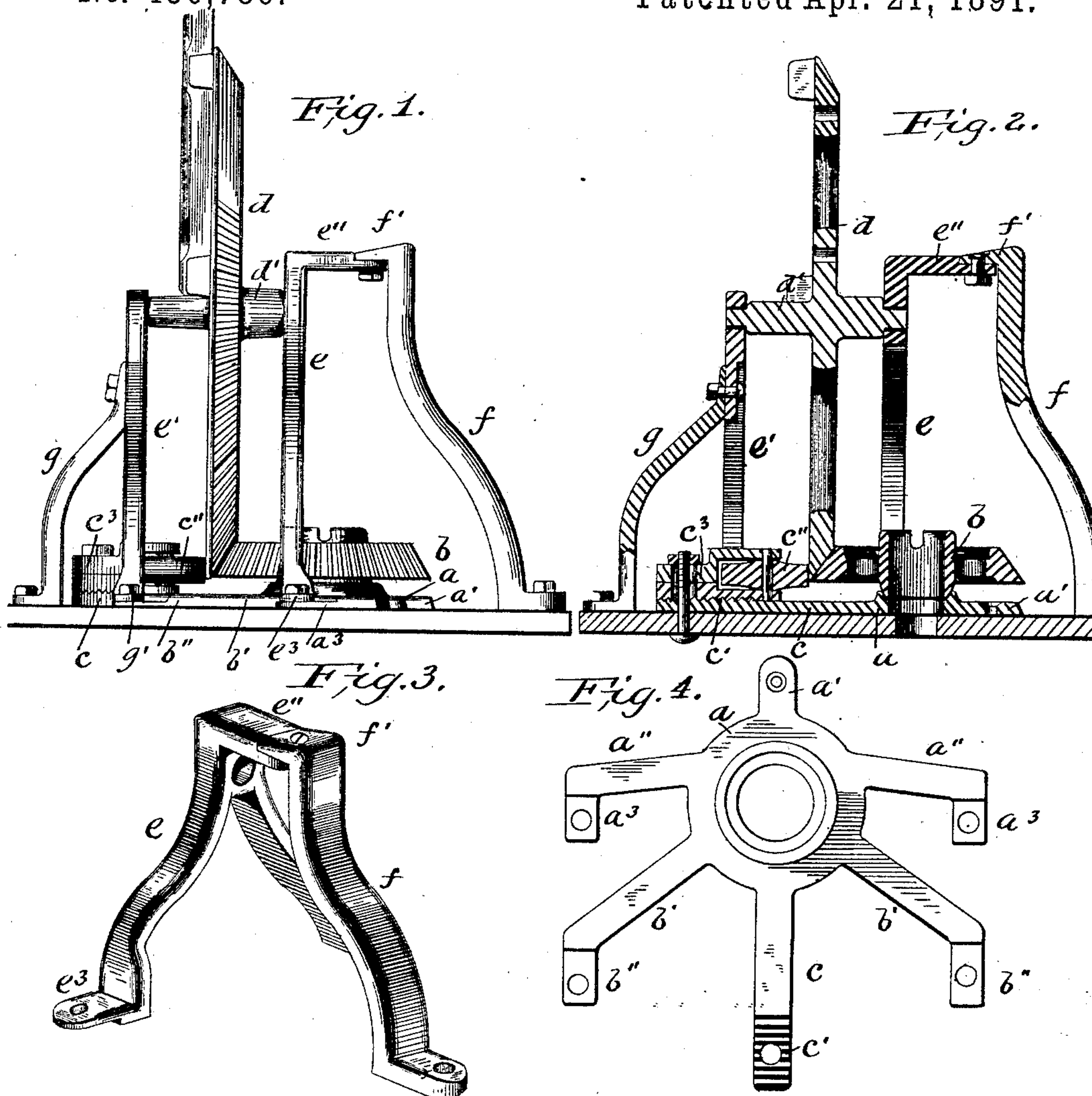
(No Model.)

A. GAGNÉ.

MEANS FOR OPERATING WASHING MACHINES.

No. 450,786.

Patented Apr. 21, 1891.



Witnesses

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AUGUSTIN GAGNÉ, OF BIDDEFORD, MAINE, ASSIGNOR OF ONE-HALF TO
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MEANS FOR OPERATING WASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 450,786, dated April 21, 1891.

Application filed January 21, 1891. Serial No. 378,554. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTIN GAGNÉ, a citizen of the United States, residing at Biddeford, in the county of York and State of Maine, have invented certain new and useful Improvements in Means for Operating Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain improvements upon that class of washing-machines employing vertical agitators, which are usually journaled on the covers of the tubs and depend into the same, the gearing for operating the agitators being mounted upon the covers; and it consists in improvements and combinations of parts whereby the gearing will be more firmly supported and prevented from straining or binding, as will more fully
20 hereinafter appear.

One form of carrying my invention into practice is shown in the drawings annexed, in which—

25 Figure 1 represents a side elevation; Fig. 2, a vertical sectional view; Fig. 3, a detail perspective view of the right-hand standard and its brace, and Fig. 4 a plan view of the base-plate.

30 In the drawings, *a* designates a base-plate adapted to be secured to the cover of the machine and support the operating mechanism. This plate consists of a ring which sets over the central opening in the tub-cover and supports the bevel gear-wheel *b*, which is
35 adapted to be secured in the usual manner to the upper end of the agitator-shaft. This ring is formed with a short radial tongue *a'*, through which a screw-bolt is passed to secure it to the cover, and with oppositely-projecting integral arms *a'' a''* and *b' b'*, the
40 outer end of each of which is provided with lateral shouldered feet, lettered, respectively, *a³* and *b''*. The ring is also provided with another integral radial arm *c*, which lies between the arms *b'* and is transversely corrugated at its outer end. The usual operating-wheel *d* has its shaft journaled in the standards *e e'*, and is held in constant engagement with the wheel *b* by means of a roller *c''*,

50 journaled in a two-part frame *c³*, this frame *c³* being corrugated on its under side to correspond with the corrugations on the end of the radial arm *c*, to which arm it is adjustably bolted by a vertical bolt passing through the frame and arm and cover. The standards *e* 55 *e'* are bifurcated so as to straddle the working parts, and are provided with horizontal shouldered feet, lettered, respectively, *e³* and *g'*, these feet overlapping the shouldered feet on the ends of the radial arms *a''* and *b'* and 60 being bolted thereto and to the cover by suitable vertical bolts. The left-hand standard *e'* is braced laterally and prevented from spreading when subjected to an unusual strain by a brace *g*, the upper end of which 65 is bolted to the said standard and its lower end to the cover. Formed on the upper end of the standard *e*, above the shaft of the main wheel, is an outwardly-projecting horizontal arm *e''*, which is shouldered at its outer end 70 for the reception of the upper horizontal end *f'* of an inclined brace *f*, the lower end of which is suitably bolted to the cover. The operating mechanism being thus mounted will be very strong and durable and will not 75 be liable to be deranged from unusual strains.

Having thus described my invention, what I claim is—

The combination of the base-plate, consisting of a ring having formed integral with it 80 radial arms *a'' b' c*, a bevel gear-wheel supported on the plate, bifurcated standards *ee'*, having their feet bolted to the outer ends of the radial arms *a''* and *b'*, the driving-wheel 85 journaled in these standards, an adjustable roller bolted on the said arm *c* and adapted to bear against the lower end of the driving-wheel, and inclined braces bolted to the said standards, as and for the purpose described.

In testimony whereof I affix my signature in 90 presence of two witnesses.

AUGUSTIN ^{his} X GAGNÉ.
mark

Witnesses:

HENRY I. LORD,
J. E. LA ROCQUE.