

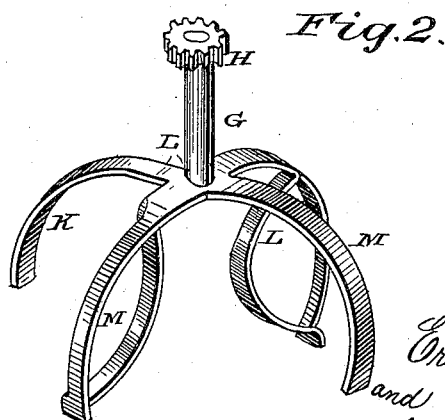
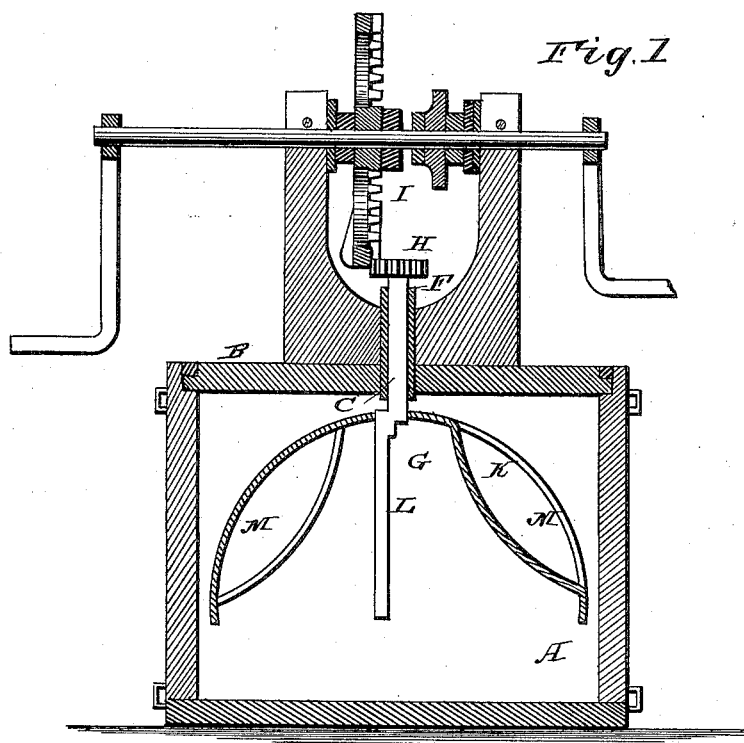
(No Model.)

E. W. ALLEN & E. A. KIBBE.

WASHING MACHINE.

No. 306,204.

Patented Oct. 7, 1884.



WITNESSES:

Edw. L. Dietrich
Wm. J. Lecher

Erasmus W. Allen
and

Edson A. Kibbe
INVENTOR.

Louis Ruggers & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

ERASMUS W. ALLEN AND EDSON A. KIBBE, OF SENECA, KANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 306,204, dated October 7, 1884.

Application filed August 25, 1883. (No model.)

To all whom it may concern:

Be it known that we, ERASMUS W. ALLEN and EDSON A. KIBBE, citizens of the United States, and residents of Seneca, in the county of Nemaha and State of Kansas, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a vertical sectional view of our improved washing-machine, and Fig. 2 is a perspective view of the agitator.

Similar letters of reference indicate corresponding parts in all the figures.

Our invention has relation to that class of washing-machines having a rotary or rotary reciprocating agitator; and it consists in the improved construction and combination of parts of the agitator, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the suds-box, which may be of any desired construction, and which is provided with a cover, B, provided with a vertical perforation, C, lined with a metallic boss or bushing, F. A shaft, G, is journaled in the said bushing, and is provided at its upper end with a pinion, H, which receives rotary or rotary reciprocating motion from suitable cog-wheels or cogged segments, the latter construction being preferred and shown in the drawings at

I, which may be actuated in any desired manner. The agitator K is secured to the lower end of the vertical agitator-shaft G, and it consists of a plate of sheet metal cut to form four (more or less) arms, L and M, two or more, M, of which arms are slitted longitudinally, and the portions of the arms upon both sides of the slits are curved, one outward and one inward, and all the arms are curved downward. By this construction of the beater-arms the entire agitator may be made of one piece of sheet metal, and the arms will by their shape form very efficient beaters.

We are aware that egg-beaters have been made consisting of a plate secured at one end to a handle and slitted longitudinally, having the strips thus formed bulged out to alternate sides, and we do not claim such construction, broadly; but

We claim—

The agitator consisting of a shaft and a cross-shaped sheet-metal plate secured to the lower end of said shaft, having two of its arms curved downward and slitted longitudinally, and having the sides of the slits bulged out in opposite directions, and having its plain arms curved downward, as and for the purpose shown and set forth.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

ERASMUS W. ALLEN.
EDSON A. KIBBE.

Witnesses:

J. F. THOMPSON,
E. L. ALLEN.