H. G. FOUGEU.

ROTARY-CHURN.

No. 193,403. Patented July 24, 1877.

Fig. 1

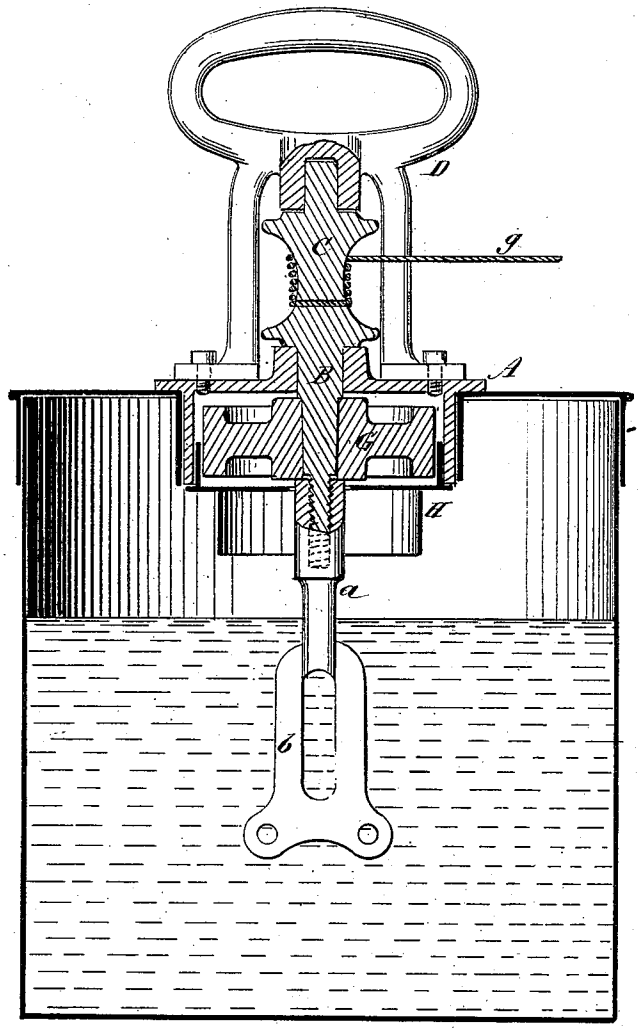


Fig. 2

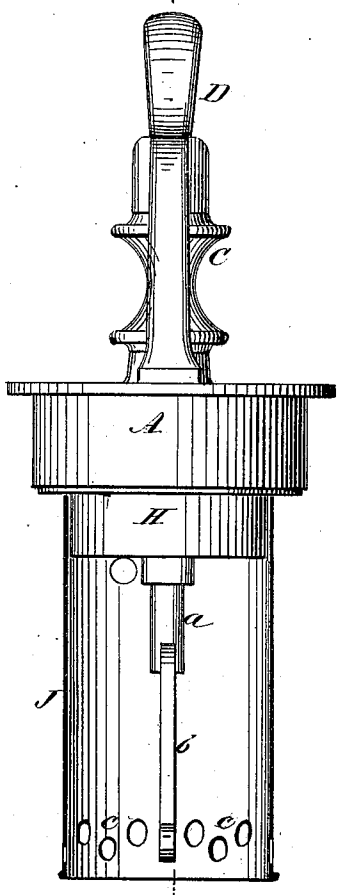


Fig. 3

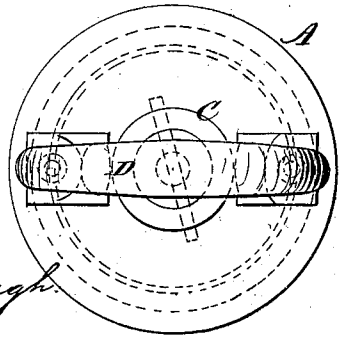
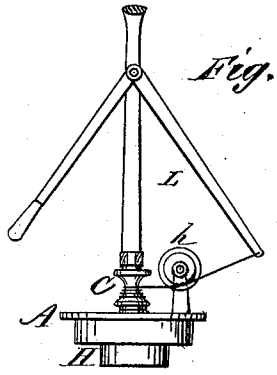


Fig. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

HONORÉ G. FOUGEU, OF CAPE GIRARDEAU, MISSOURI.

IMPROVEMENT IN ROTARY CHURNS.

Specification forming part of Letters Patent No. **193,403**, dated July 24, 1877; application filed June 23, 1877.

To all whom it may concern:

Be it known that I, HONORÉ GUSTAVE FOUGEU, of Cape Girardeau, in the county of Cape Girardeau and State of Missouri, have invented a new and Improved Agitator, of which the following is a specification:

This invention relates to a new motive power which is especially designed for mixing liquids, for churning butter, and for other purposes where a rapid and alternate rotary motion is found useful.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

In the annexed drawings, Figure 1 is a vertical section taken centrally through the machine. Fig. 2 is a view of the machine, partly in section, arranged for mixing fluids in a tumbler or other small vessel. Fig. 3 is a top view. Fig. 4 shows levers arranged for rotating the spindle.

Similar letters of reference indicate corresponding parts.

The letter A designates a flanged bearing-cap, which may be of any required diameter and depth. This cap has a hole through its thickened center, that receives a spindle, B, on which a spool or pulley, C, is formed.

The upper end of the spindle B has a bearing in a handle, D, which is screwed fast upon the cap A. The lower end of the spindle B is screw-threaded to receive the shaft *a* of a dasher, *b*, which latter may be of any desired form.

Between the upper end of the dasher-shaft *a* and the top of the cap A a balance-wheel, G, is applied, on the tapering part of the spindle B, and confined by friction, so that in the event of the dasher meeting with a resistance which would be liable to injure the machine the said wheel will slip.

Inside of the cap A is fitted a collar, H, which may be made of sheet metal, and which is constructed with a circular flange, that receives upon it a cylinder, J. The collar H will prevent fluids from getting inside of the cap A.

The cylinder J is designed to prevent fluids which are being agitated from flying out of the vessel containing them, and in order to allow a free circulation of the fluids I make holes *c* through the lower end of the cylinder J.

If the vessel containing the fluid to be agitated be larger than a tumbler of ordinary size, a cylinder much larger than the one shown by Fig. 2 may be used, and applied around the cap A beneath its flange.

For churning butter or washing fabrics, the machine will be constructed on a larger scale and applied to a vessel, as shown by Fig. 1, the cylinder J being omitted, as the cover of the box will keep the fluid in it.

The machine is operated by means of a strong cord, *g*, which is wound around the pulley C on spindle B, and which may be held in the hand or attached to a lever, L, and guided by a pulley, *p*, as shown in Fig. 4.

My improved agitator will be found very useful for mixing all kinds of fluids, for churning, making ice-cream, beating eggs, washing fabrics, and for many other purposes.

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

1. The combination of flanged cap A, spindle B, and handle D with the shaft *a* and dasher *b*, as shown and described, for the purpose specified.

2. The combination, with cap and revolving spindle, of the collar H and cylinder J, as and for the purpose set forth.

HONORÉ GUSTAVE FOUGEU.

Witnesses:
C. SEDGWICK,
ALEX. F. ROBERTS.