

# J. B. Peterson, Mixing Flour.

N<sup>o</sup> 79,386.

Patented June 30, 1868.

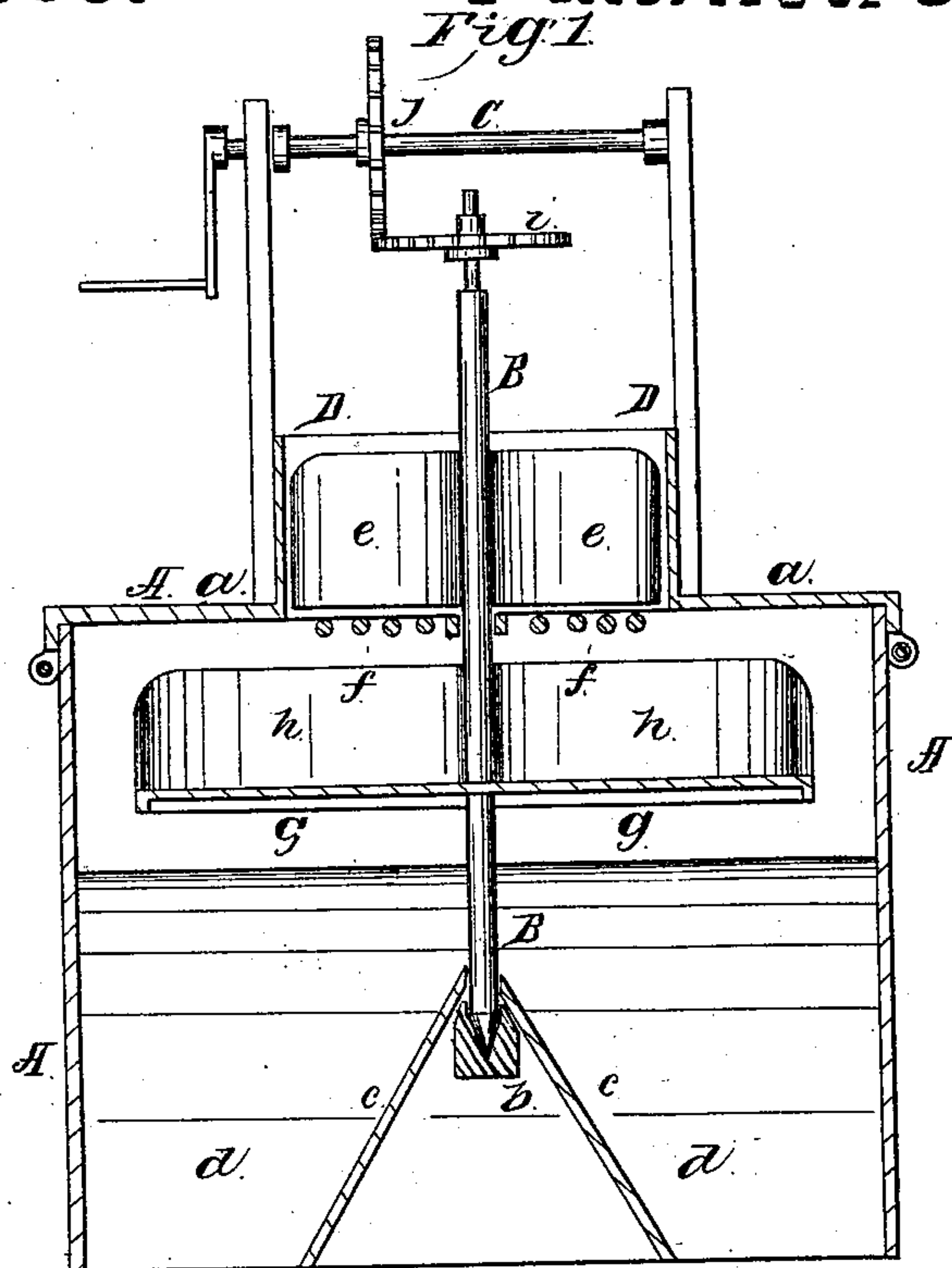
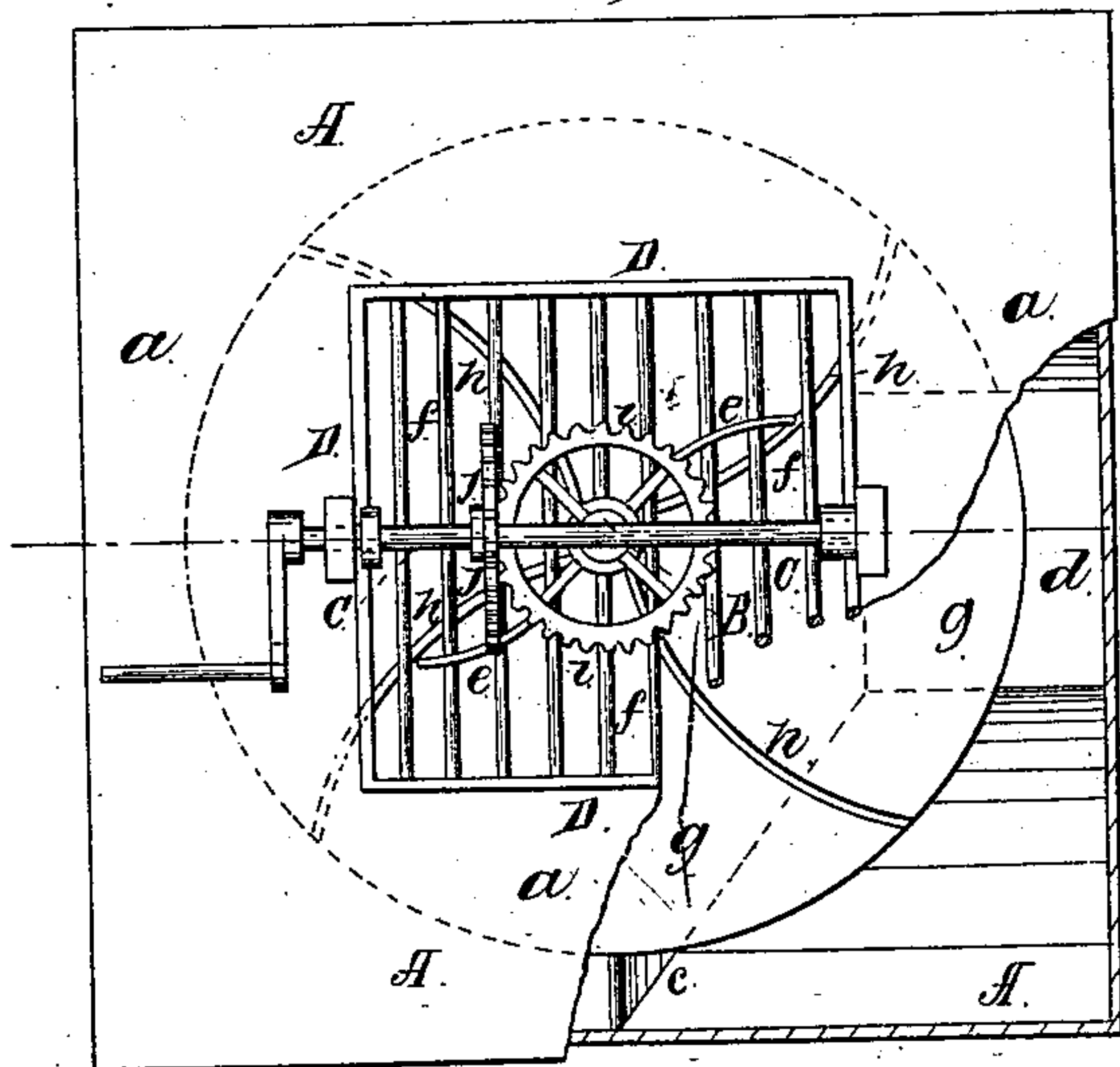


Fig 2



Witnesses:  
H. A. Morgan  
G. C. Cotton

Inventor:  
J. B. Peterson  
per Murray &  
Attorneys

# United States Patent Office.

J. B. PETERSON, OF BROOKLYN, E. D., NEW YORK.

*Letters Patent No. 79,386, dated June 30, 1868.*

## IMPROVED MACHINE FOR MIXING FLOUR, &c.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. B. PETERSON, of Brooklyn, E. D., in the county of Kings, and State of New York, have invented a new and improved Mixing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the following drawings, forming a part of this specification.

Figure 1 represents a sectional elevation of my improved mixing-machine.

Figure 2 is a plan or top view, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new machine for mixing flour and other material, and consists chiefly in the use of a revolving plate, upon which the material to be mixed is deposited, and whence it is, in minute quantities, thrown off by centrifugal force.

Besides this plate, there are also suitable stirrers employed.

A, in the drawing, represents a case or box, made of metal or other suitable material. It has an opening through its covering-plate, *a*, and has an open bottom.

B is an upright shaft, which is supported on a step, *b*, formed on the lower part of the box A. The step is covered and protected by two inclined plates, *c c*, that form a roof, as shown, and that may extend entirely across the lower part of the box, so as to form two channels or discharge-openings, *d d*, as shown, that may have also inclined ends, as indicated in the drawings.

On the shaft B are mounted two or more arms, *e e*, which work above a perforated or slotted plate or grate, *f*, that is secured across the upper opening of the box. On the shaft B is also mounted, below the grate *f*, and above the step *b*, a disk, *g*, which carries a series of curved or other arms, *h h*, upon it, as is clearly shown in fig. 2.

The shaft B carries a toothed wheel, *i*, near its upper end, and receives rotary motion from a horizontal crank-shaft, C, by means of a toothed wheel, *j*, mounted on the latter, as indicated in fig. 1.

The flour or other material to be mixed is fed to a hopper, D, formed above and around the upper opening of the box A, and falls upon the grate *f*, whereon it is stirred by the arms *e*, so as to drop through the apertures of the grate or plate *f*, upon the rotating plate *g*. It is, on this plate, by the centrifugal force, gradually brought to the edge of the plate, and is then thrown off, in minute quantities, from the edge, escaping through the discharge-channels *d d*.

By the arms *e e*, it is already well mixed on the grate *f*, but still more and completely by the action of the plate *g*. The arms *h* on this plate keep it apart, and cause better mixture, as the particles are thrown against and repelled by them.

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

A mixing-machine, consisting of the rotary shaft B', on which the arms *e* and the disk *g* are mounted, the arms working over a perforated stationary plate, *f*, or its equivalent, and the disk throwing the particles to be mixed off, substantially as described, all working in a case or box, A, in the manner specified.

J. B. PETERSON.

Witnesses:

FRANK BLOCKLEY,

ALEX. F. ROBERTS.