

(No Model.)

2 Sheets—Sheet 1.

C. LE MEE.

APPARATUS FOR MIXING MEAL OR FLOUR.

No. 286,716.

Patented Oct. 16, 1883.

FIG. 1.

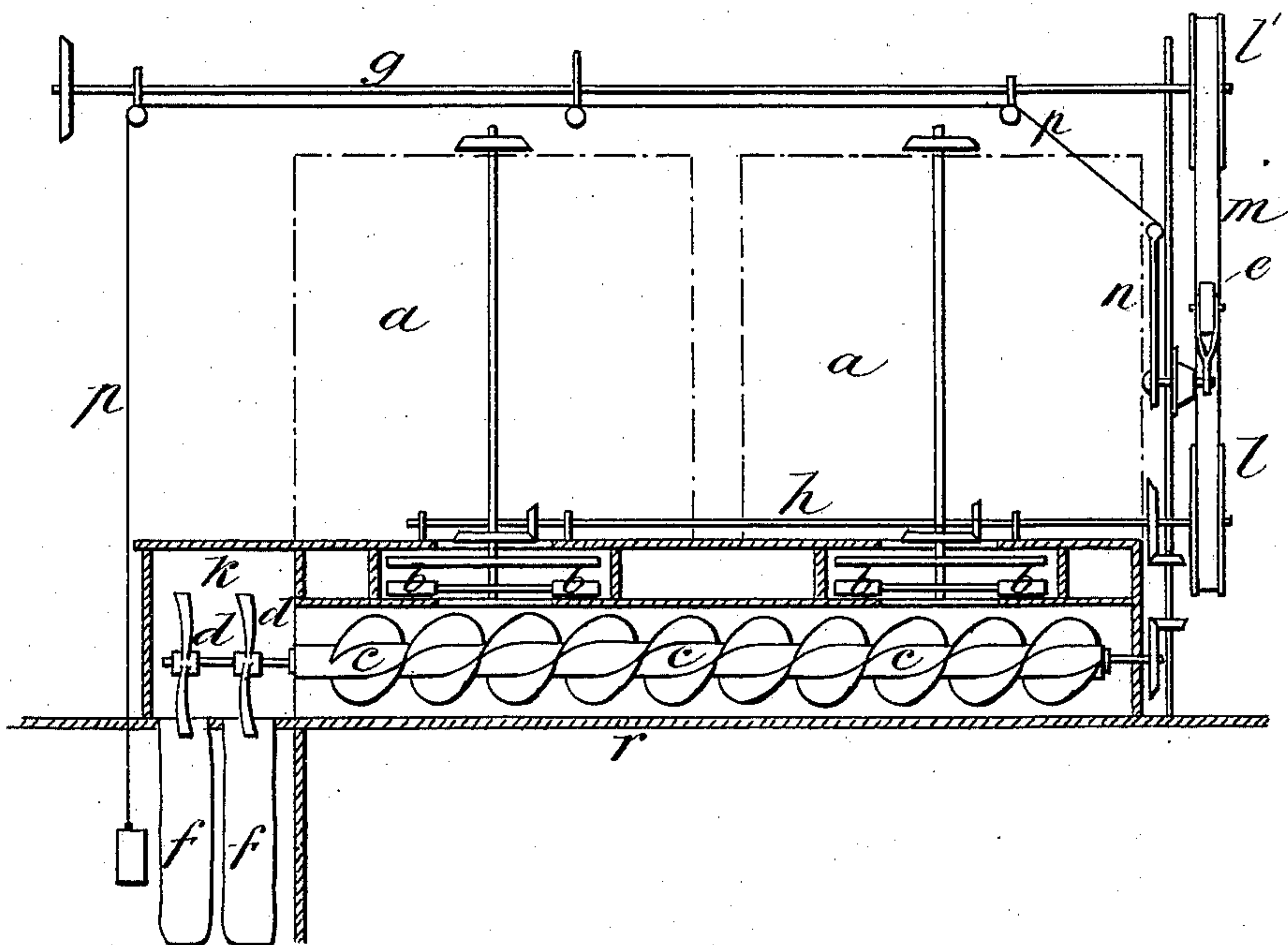
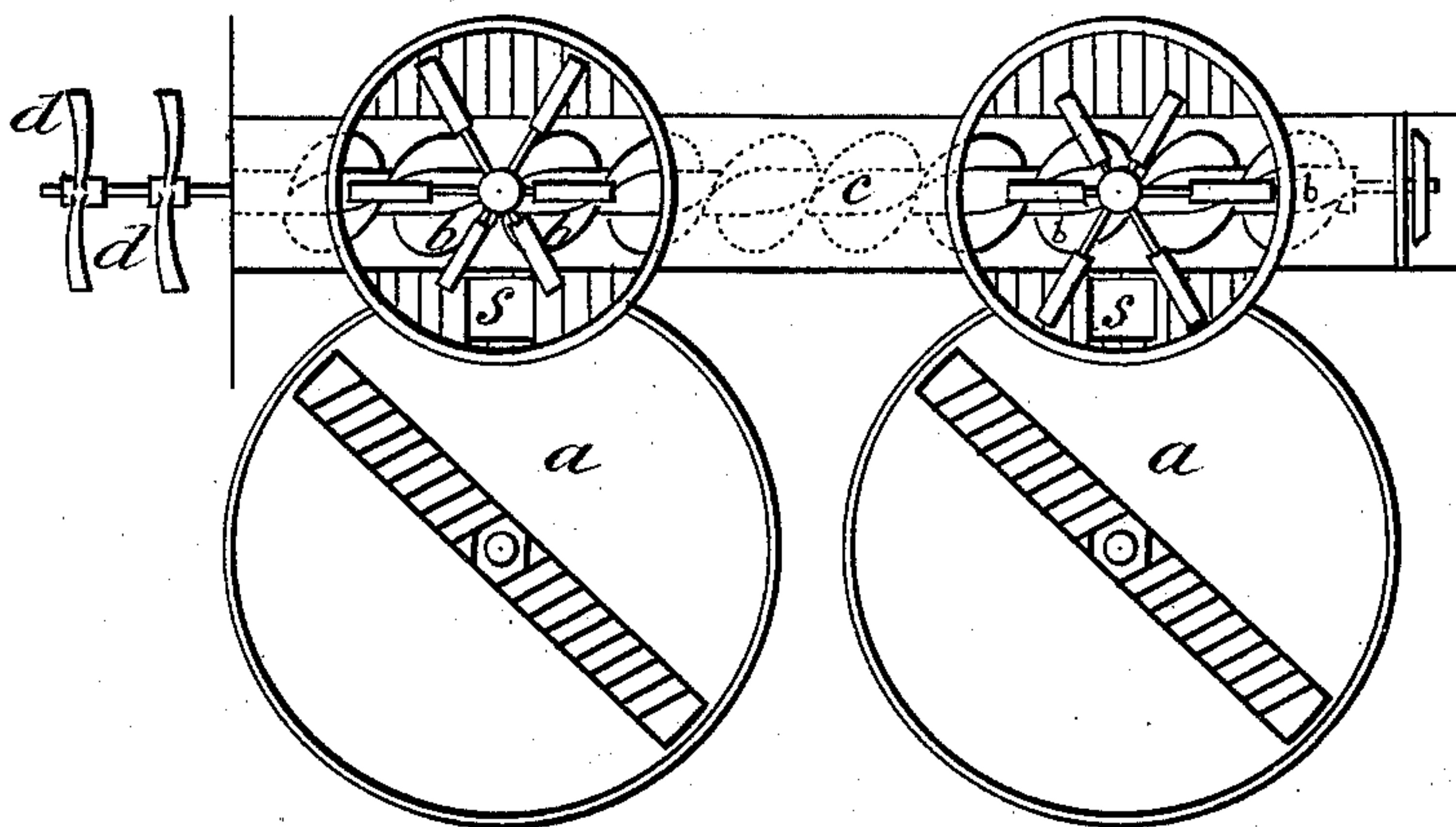


FIG. 3.



Witnesses.

J. Wetter
A. J. Melhuish

Inventor.

Charles Le Mee
By W. H. H. H. H. H.
A. H. 4

(No Model.)

2 Sheets—Sheet 2.

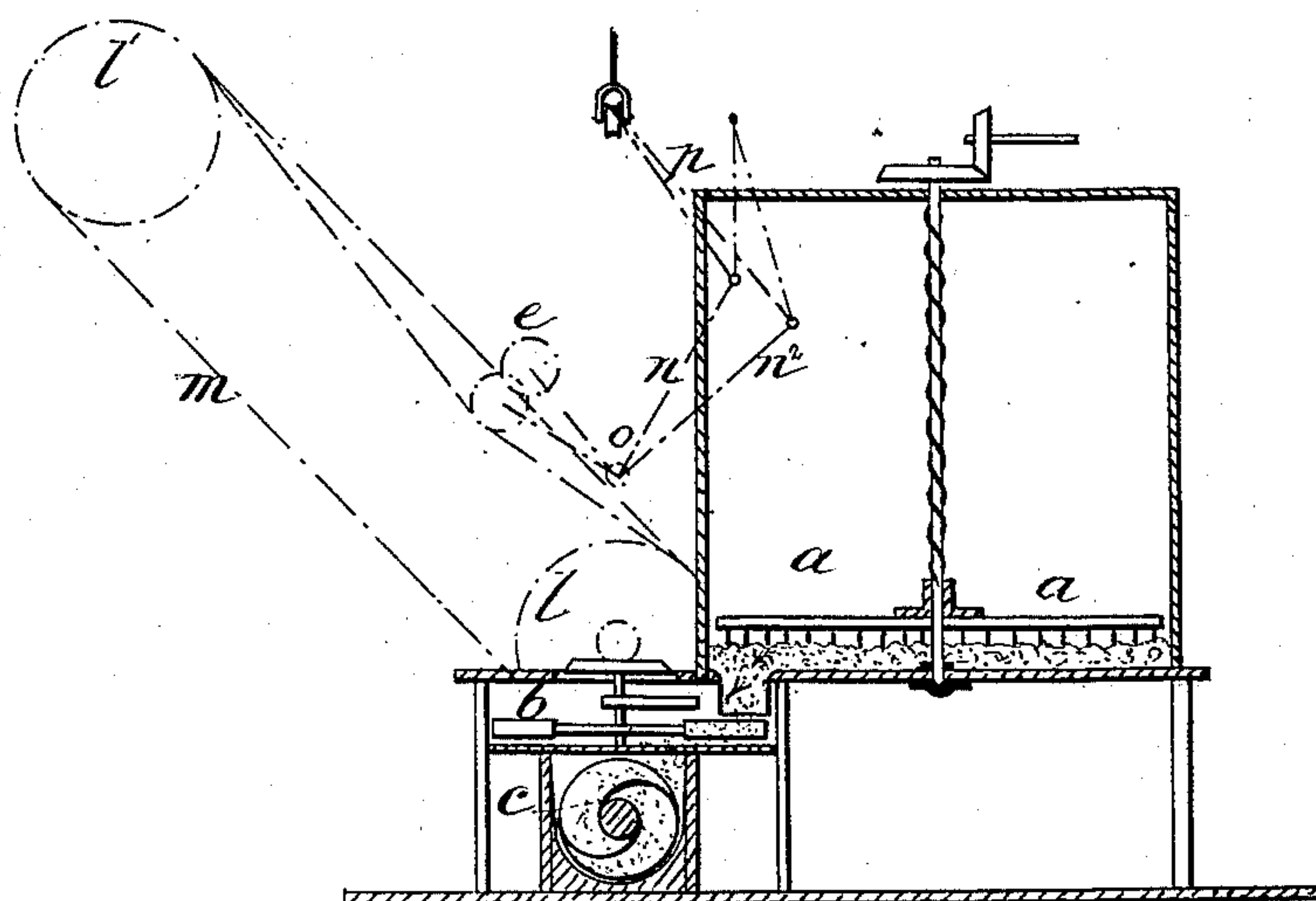
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FIG. 2.



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J. Wetter

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Charles Le Mee

By A. E. Haddad

Att'y

UNITED STATES PATENT OFFICE.

CHARLES LE MÉE, OF YFFINIAO, FRANCE.

APPARATUS FOR MIXING MEAL OR FLOUR.

SPECIFICATION forming part of Letters Patent No. 286,716, dated October 16, 1883.

Application filed December 9, 1881. (No model.) Patented in France July 4, 1881, No. 143,751; in England September 30, 1881, No. 4,237; in Belgium September 30, 1881, No. 55,866; in Austria October 1, 1881, No. 32,557; in Spain October 5, 1881, No. 1,922; in Luxemburg October 14, 1881; in Italy October 20, 1881, No. 13,457; in Sweden December 28, 1881; in Denmark January 14, 1882, No. 2,345; in Germany June 25, 1882, No. 18,334, and in Norway August 14, 1882.

To all whom it may concern:

Be it known that I, CHARLES LE MÉE, a citizen of the French Republic, and residing at Yffiniac, in the department of Côtes-du-Nord, France, have invented a new and useful Improvement in Apparatus for Mixing Meal or Flour, (for which I have obtained Letters Patent in England, No. 4,237, dated September 30, 1881; France, No. 143,751, dated July 4, 1881; Belgium, No. 55,866, dated September 30, 1881; Austria, No. 32,557, dated October 1, 1881; Spain, No. 1,922, dated October 5, 1881; Luxemburg, dated October 14, 1881; Italy, No. 13,457, dated October 20, 1881; Sweden, dated December 28, 1881; Denmark, No. 2,345, dated January 14, 1882; Germany, No. 18,334, dated June 25, 1882, and Norway, dated August 14, 1882,) of which the following is a specification.

My invention relates to apparatus for mixing meals or flours.

In the following description reference will be made to the accompanying drawings, in which Figure 1 is a longitudinal section of an improved mixing-machine; Fig. 2, a cross-section, and Fig. 3 a plan view thereof.

The improvement mainly consists in the combination of the following parts: A series of rakes or stirrers, *a a*, mounted on vertical shafts and revolving in separate mixing-chambers, which receive the flour to be mixed and from which it is discharged into the distributing-chambers, situated lower than the mixing-chambers, and preferably at the side of the latter; a series of distributors, consisting chiefly of revolving blades *b b*, mounted on vertical shafts, and serving to distribute the flour into a horizontal or inclined channel situated lower than the distributing-chambers;

an endless helix, *c*, revolving in the said channel, and thereby transporting the flour received from the distributing-chambers; a pair (or other suitable number) of helices, *d d*, mounted on the extremity of the screw-shaft, and revolving in a chamber, *k*, for the purpose of delivering the flour regularly into hoppers or other receptacles, *f f*, and preventing the choking of the screw.

The driving and controlling mechanism is as follows: The distributors are driven by bevel-wheels mounted on a horizontal shaft, *h*, the outer end of which carries a pulley, *l*, driven by a belt, *m*, from the pulley *l'*, mounted on the main shaft. The belt can be tightened by means of a friction-pulley, *e*, mounted on an angle-lever, *n*, which can be pressed against the belt by pulling a rope or chain, *p*, which is guided over pulleys along the ceiling to the opposite side of the machine, where it terminates near the hoppers *f f*, so as to be within easy reach of the attendant. The helix *c* is driven from a vertical shaft outside the casing by means of a pair of bevel-wheels, as shown in the drawings, Fig. 1.

What I claim as my invention is—

In a machine for mixing flour, the combination of the rakes *a*, mixing-chambers, distributors *b*, distributing-chambers, endless helix *c*, its channel, the delivery-helices *d* and their chambers, all substantially as described and illustrated, and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of September, 1881.

LE MÉE, CHAS.

Witnesses:

LEON SCHMITTBUHL,
L. D. CONNAINTE.