

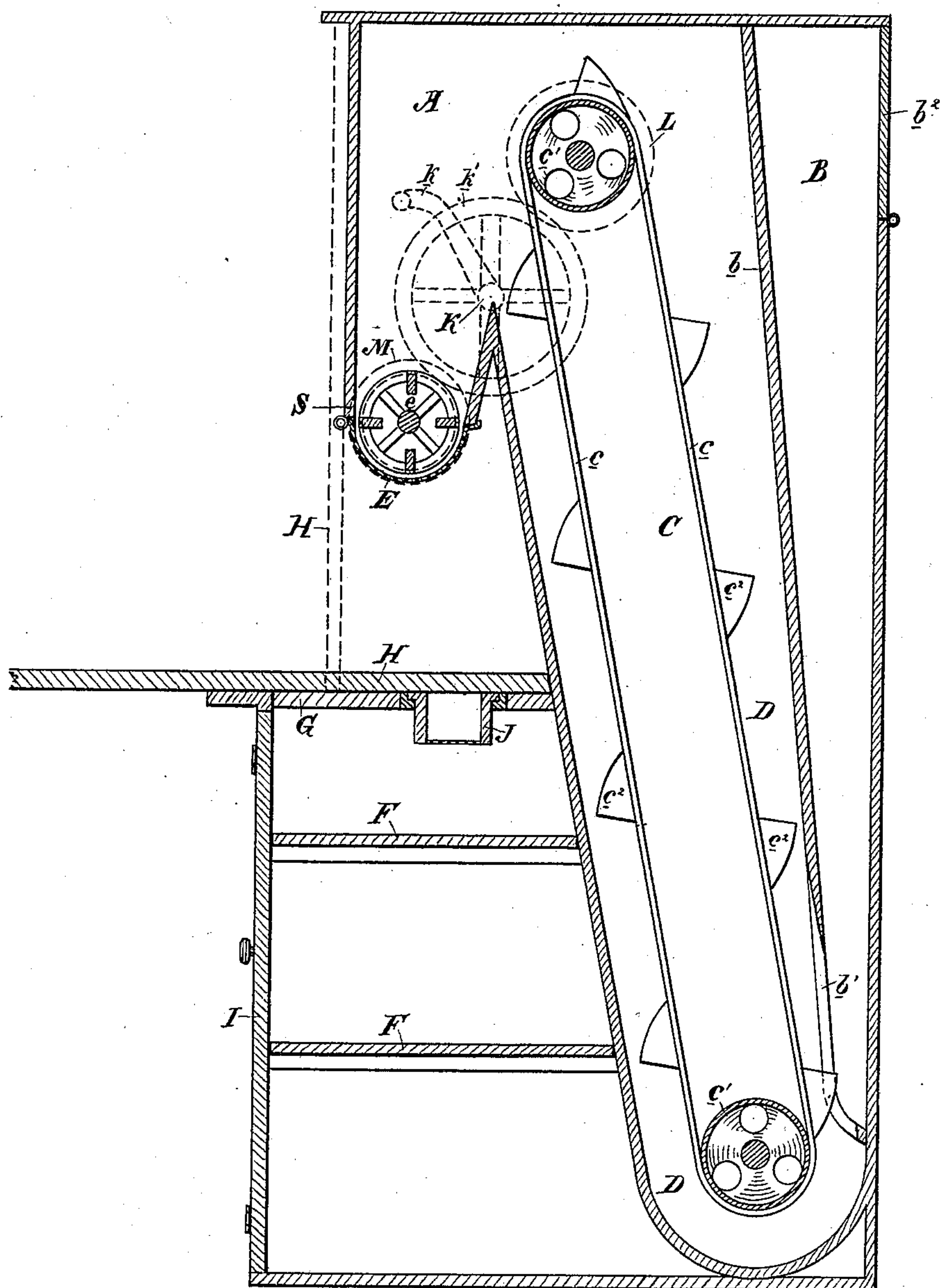
(No Model.)

J. OZENBERGER.

FLOUR CHEST.

No. 350,600.

Patented Oct. 12, 1886.



Witnesses,
Geo. H. Strong,
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attys

UNITED STATES PATENT OFFICE.

JOSEPH OZENBERGER, OF MIDDLETOWN, CALIFORNIA, ASSIGNOR OF ONE
HALF TO R. H. SANDERS, OF SAME PLACE.

FLOUR-CHEST.

SPECIFICATION forming part of Letters Patent No. 350,600, dated October 12, 1886.

Application filed March 23, 1886. Serial No. 196,309. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH OZENBERGER, of Middletown, county of Lake, and State of California, have invented an Improvement in Flour-Chests; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to the class of flour-chests; and it consists in a casing having within its back portion, and arranged vertically, a flour-compartment, and in its front portion an endless traveling elevator communicating at its lower end with the lower end of the flour-compartment, a sifter into which the elevator discharges, a removable bread-board closing the upper front portion of the casing, a suitable arrangement of shelves in the lower front portion of said casing, and a small drawer-sieve, together with mechanism for operating the elevator and sifter, and various details of construction, all of which I shall hereinafter fully describe by reference to the accompanying drawing, in which the figure is a vertical section of my flour-chest.

The object of my invention is to provide a flour-chest the parts of which are so arranged that the greatest convenience can be obtained in the use of the chest.

A is the casing, in the back portion of which is formed the flour-compartment B, arranged vertically with a sloping front wall, *b*, leading down to the discharge *b'* at the bottom. A door, *b²*, at the back and top, affords access to the compartment B for supplying it.

C is the endless traveling elevator, which consists of endless bands *c* passing over guide-sheaves *c'* above and below and provided with buckets *c²*. The elevator is located in a compartment, D, in the casing, with which the flour-compartment communicates at its base, so that the buckets of the elevator in traveling up are filled.

In the upper front portion of the casing is a small spout, S, to which is secured the sifter E, which consists of a suitable sieve or screen, in which operates a rotating stirrer, *e*. The sifter is hinged to the spout S and by turning it back it can be reached for cleaning.

F is the series of shelves in the lower front portion of the casing, the top of said series

forming a ledge, G, on which the bread-board H rests. This bread-board when in use lies in a horizontal position upon the ledge G, its inner end being pressed against the wall of the elevator compartment, and when not in use is turned upward to inclose the front of the casing. The front of the series of shelves is inclosed by the doors I.

In the side of the casing A is a small sieve-drawer, J.

The means for driving the elevator and the rotating stirrer of the sifter E consists of the shaft K, having a crank, *k*, on one end, and a gear, *k'*, on the other end, which meshes with a pinion, L, on the shaft of the upper sheave, *c'*, of the elevator, and meshes also with a small pinion, M, on the shaft of the stirrer *e* of the sifter.

The operation of the device is as follows: The flour in the compartment B, on account of its slope and its vertical arrangement, continually settles down to the discharge *b'* at the bottom, and thus the buckets of the elevator fill as they come around. At the top the buckets *c²* discharge their contents into the sifter E, by which the flour is discharged in a sifted condition upon the bread-board. The remains of the flour, after sufficient has been used, are discharged from the bread-board into the sieve-drawer J for resifting, so that none is lost. The bread-board, when not in use, is turned upwardly and entirely out of the way.

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

1. In a flour-chest, the casing A, having the partition *b*, forming a flour-compartment at its back, the series of shelves at the lower front portion, and the board H, adapted to close the front of the casing when not in use, substantially as described.

2. In a flour-chest, the casing A, having a ledge, G, in combination with a removable bread-board for closing the front of said casing, and a drawer mounted in the ledge G, substantially as described.

3. In a flour-chest, the flour-compartment B, having a discharge-aperture, *b'*, at its base, the sifter E above, and the intervening endless traveling elevator C, the buckets *c²* of which

receive successively the flour from compartment B and deliver it above into the sifter, substantially as described.

4. In a flour-chest, the casing A, having a spout, S, in front, the vertically-arranged flour-compartment B in the back of the casing, and having a discharge-aperture, b' , at its base, and the sifter E, hinged to the spout, and having a rotating stirrer, e , in combination with the intervening endless traveling elevator C, having buckets c^2 , which receive successively the flour from compartment B and deliver it to the sifter, substantially as described.

5. In a flour-chest, the casing A, the flour-compartment B in its back, having discharge b' , the sifter E in the upper front portion of the casing, and the removable board H for closing the front portion of the casing, in combination with the endless traveling elevator C within the casing, having buckets c^2 , which receive successively the flour from compartment B and deliver it above to the sifter, substantially as described.

6. In a flour-chest, the casing A, the vertically-arranged compartment B in its back, having a discharge, b' , at its base, the sifter E in the upper front portion of the casing, and the removable board H at the front of the casing, in combination with the endless traveling elevator C, consisting of the belts c and buckets c^2 , and means by which said elevator is operated, consisting of the crank-shaft K, the gear

k' on said shaft, the pinion L, with which it meshes, and the sheaves c' , over which the belts pass, substantially as described.

7. In a flour chest, the casing A, the vertically-arranged flour-compartment B at its back, having a bottom discharge, b' , the sifter E in its upper front portion, having a stirrer, e , and the board H at the front of the casing, in combination with the endless traveling elevator C, having buckets c^2 , as described, and the means for operating the stirrer e , consisting of the crank-shaft K, having gear k' , and the pinion M on the shaft of the stirrer, substantially as described.

8. A flour-chest comprising the casing A, the sloping flour-compartment B, vertically arranged at the back of the casing and having a bottom discharge, b' , the spout S in the front of the casing, the sifter E, hinged to the spout and having a stirrer, e , the endless elevator C, mounted on suitable sheaves and having buckets c^2 , and the means for driving the elevator and the stirrer of the sifter, consisting of the crank-shaft K, gear k' , and pinions L M, all constructed and arranged substantially as herein described.

In witness whereof I have hereunto set my hand.

JOSEPH OZENBERGER.

Witnesses:

H. L. BUNMEEST,
J. L. READ.