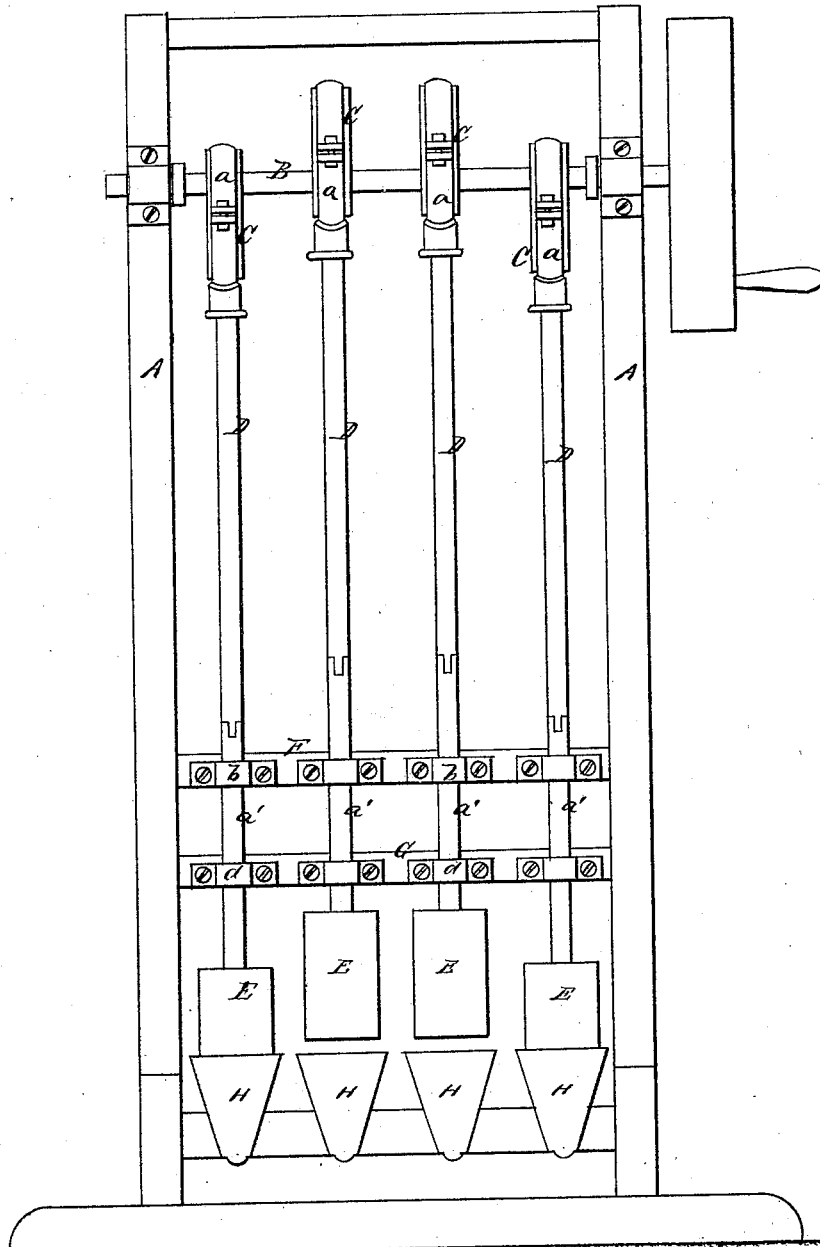


J. W. Hall,

Manf. Sugar.

No. 102314.

Patented Nov. 15. 1870.



Witnesses.
Geo. H. Strong
J. R. Bone

Inventor.
John W. Hall
By his Attys.
Dewey & Co.

United States Patent Office.

JOHN WILLIAM HAHN, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 109,314, dated November 15, 1870.

IMPROVEMENT IN APPARATUS FOR THE MANUFACTURE OF SUGAR.

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, JOHN WILLIAM HAHN, of the city and county of San Francisco, State of California, have invented an Improvement in the Manufacture of Sugar; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

This invention relates to that class of machines which is employed for pressing the sirup from sugar after it has left the centrifugal machine, for the purpose of forming it into the loaf, and consists of certain details of construction, which will be fully described hereinafter.

In order to explain my invention so that others can understand its construction and operation, reference is had to the accompanying drawing forming a part of this specification, in which—

A represents any square frame.

B is a shaft passing across this frame near its top, having secured upon it, at intervals, eccentrics C C C.

This shaft may be revolved by a belt in the usual manner or otherwise.

A ring or band, *a*, encircles each of these eccentrics, and to which vertical rods D are attached.

These rods are hinged or otherwise united by a joint to a second bar or stem, *a'*, to the lower end of which are secured stampers or pressers E.

The rods or stems *a'* pass through boxes *b d* on two cross-bars, F and G, in order to insure a perfectly vertical motion of the pressers.

Beneath each of the pressers E are placed conical

cups H, which sit loosely in recesses in the base or bed-plate, as shown, and may be removed at pleasure.

The raw sugar is first taken and passed through the usual refining process until it has been deprived of its sirup and is in a crystalline form, that is when it has been removed from the centrifugal machine.

It is then placed in the conical cups H and set in position under the pressers. The shaft B is then set in motion, which causes the pressers to be pressed down upon the sugar in the cups or molds, thus consolidating the mass in any desired quantity, and forming it into a loaf immediately, without waiting for several days, as is necessary in the ordinary process.

The operation of the pressers is to gently bear down upon the sugar in the molds, and be lifted again without forcibly stamping upon it; and the peculiar arrangement of the jointed bar and eccentrics is to accomplish this gradual pressure without interfering in any manner with the process of crystallization.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

The combination of the frame A, shaft B, eccentric C C', rods D, stems *a'*, boxes *b d*, cross-bars F and G, and conical cups H, when all the parts are constructed and arranged as described, and for the purpose set forth.

In witness that the above-described invention is claimed by me, I have hereunto set my hand and seal.

JOHN WILLIAM HAHN. [L. s.]

Witnesses:

WM. R. BOONE,
GEO. H. STRONG.