(No Model.)

B. THOENS.

HOUSING FOR SUGAR AND OTHER MILLS.

No. 291,425. Patented Jan. 1, 1884.

Fig. 1.

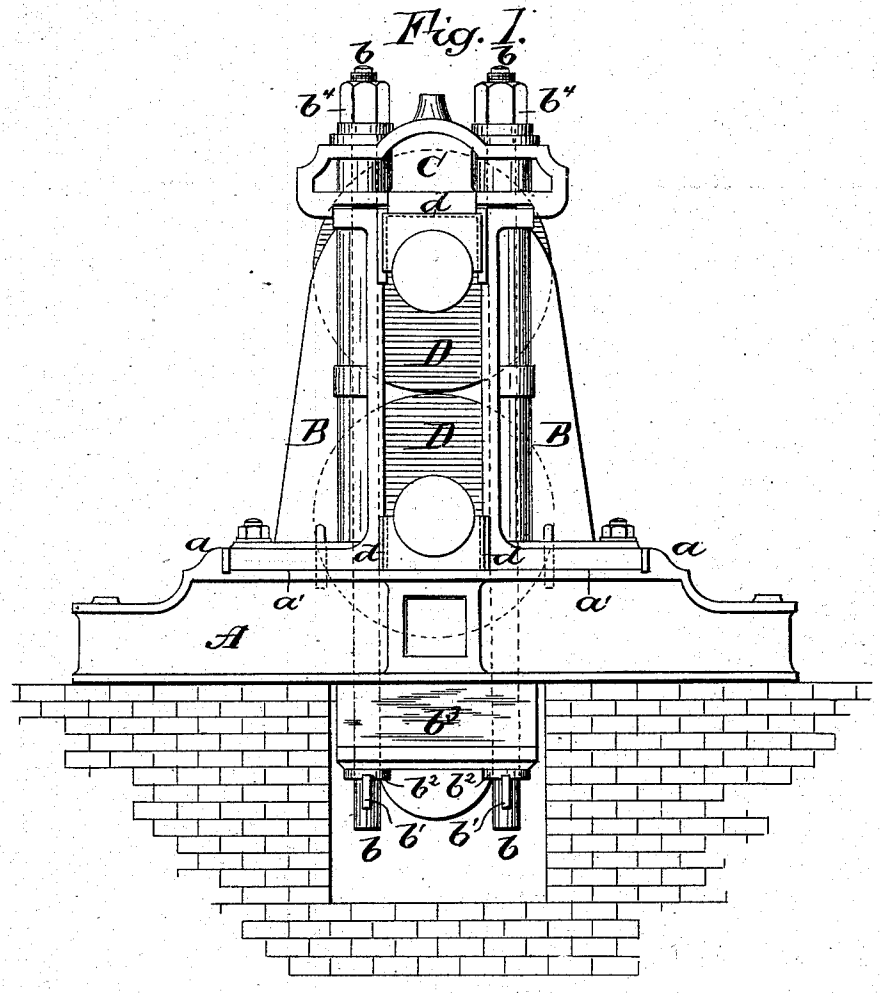
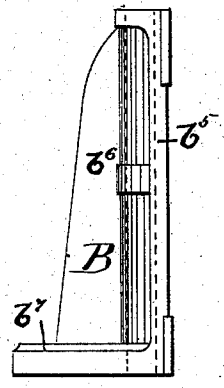


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

BURCHARD THOENS, OF NEW ORLEANS, LOUISIANA.

HOUSING FOR SUGAR AND OTHER MILLS.

SPECIFICATION forming part of Letters Patent No. 291,425, dated January 1, 1884.

Application filed September 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, BURCHARD THOENS, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Improvement in Housings for Sugar and other Mills, of which the following is a full, clear, and exact description.

The object of my invention is to lessen the cost of the housing-frames and facilitate construction and repairs of sugar and other mills, and to also reduce the bulk and weight of the parts and make them easy of access for removal or changes that may be needed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is an end elevation of a sugar-mill, showing the housings and bolts; and Fig. 2 is an elevation of a housing-bracket.

My invention relates to the construction of the housing-frames of sugar and other mills.

I make the housing-frames in separate parts—namely, a bed, A, and two housing-brackets, B, at each end of the rolls. Each bracket consists of a hollow cylindrical pillar, b^5, rear web, b^6, and foot-flange b^7, and may be made to interchange. The bed A has two cheek-pieces, *a*, upon its upper part, in the recess *a'*, between which the housing-brackets are fitted and secured by bolts and keys, as shown. A cap, C, covers and connects the tops of the housing-brackets at each end of the rolls in the usual manner, and the journal-boxes *d* are located between the housing-brackets in the usual way. The housing-bolts *b* pass through the caps C, housing-brackets B, and bed A, being secured at their lower ends by means of keys *b'*, washers b^2, and wooden cushions b^3, and are provided with nuts b^4 upon their upper ends, all in the ordinary form. The brackets B and caps C are of course duplicated at the opposite ends of the mill. The division of the housing-frames into beds and housing-brackets I do not broadly claim.

In erecting the mill with my construction of housing, the beds having been set, one of the housing-brackets upon each bed is set and secured, and then the rolls D placed, neither of them requiring to be lifted more than a few inches above its working-level; in fact, they may be rolled into place upon skids, as a cask is rolled onto a truck, without jack or purchase of any kind, except simple levers and chocks. When the rolls are in position, the other housing-brackets are set and secured, the caps put on, and the housing-bolts passed down and secured below and above. For repairs the reverse of this operation obtains; and if only the lower roll is to be removed the upper roll may be blocked up, the housing-brackets on one side removed, and the lower roll taken out or replaced by another.

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

1. In a housing-frame for mills, the combination, with the bed-pieces A, having the recesses *a'*, of the brackets B, each having a hollow cylindric pillar, b^5, provided with a foot, b^7, caps C, and bolts or rods *b*, with securing devices, substantially as and for the purpose set forth.

2. In a housing-frame for mills, the combination, with the bed-pieces A, having the recesses *a'*, with shoulders *a*, of the brackets B, each consisting of a hollow cylindric pillar, b^5, having a rear web, b^6, and flanged foot b^7, caps C, and rods or bolts *b*, with securing devices, substantially as and for the purpose set forth.

BURCHARD THOENS.

Witnesses:

FRANK B. THOMAS,

EDWIN LAIZER.