Oct. 4, 1927. 1,644,608

J. A. PEREZ

INTERMEDIATE BAGASSE CHUTE FOR CANE SUGAR MILLS

Filed Aug. 27, 1926

Fig. 1.

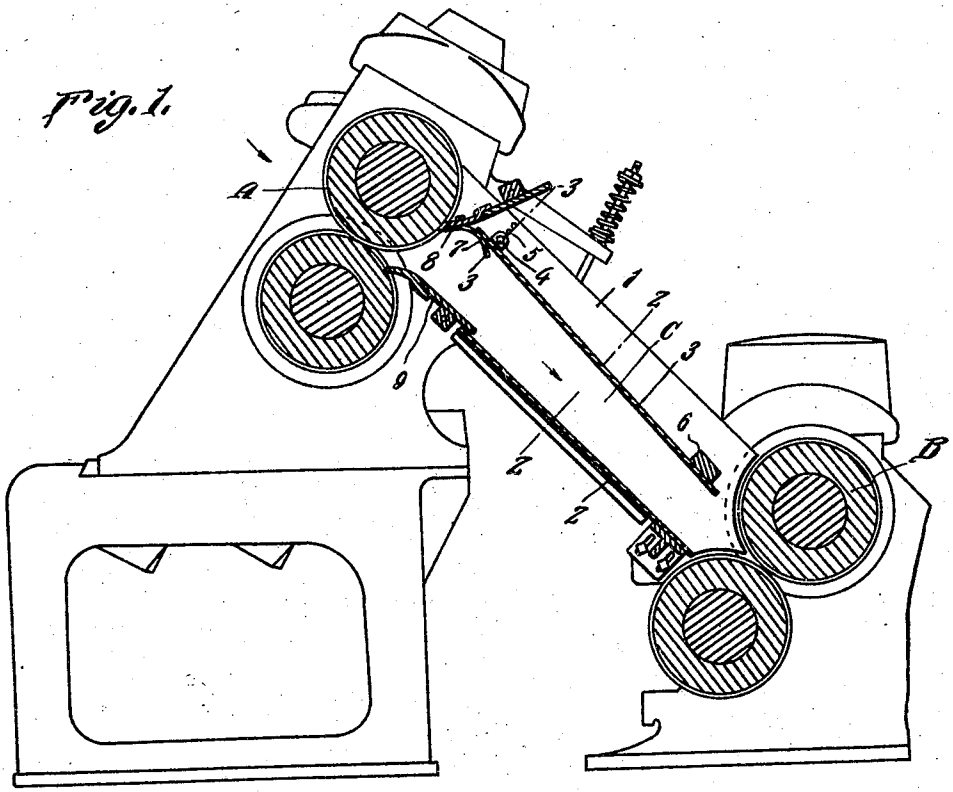


Fig. 2.

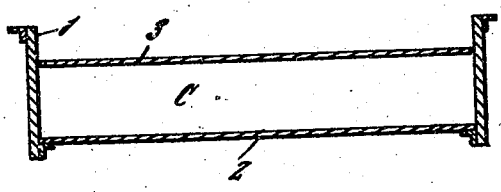


Fig. 4.

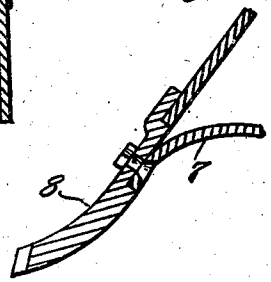
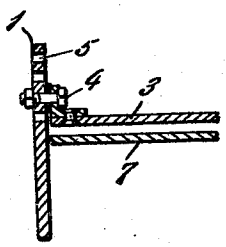


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOSE ALVAREZ PEREZ, OF CENTRAL FRANCISCO, FRANCISCO, CUBA.

INTERMEDIATE BAGASSE CHUTE FOR CANE-SUGAR MILLS.

Application filed August 27, 1926. Serial No. 132,027.

This invention relates to improvements in sugar mills, the general object of the invention being to provide an inclined chute for feeding the material from one mill to another, the chute being provided with a yieldable wall which automatically prevents excessive pressure from occurring in the chute.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a sectional view showing the improved chute in use in a mill.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 1.

Figure 4 is a detail sectional view showing how the guiding plate is attached to the scraper.

Figure 1 shows two mills A and B, with the improved chute C between them. This chute is composed of the side pieces 1, the bottom piece 2 and the top piece or plate 3. The front end of this plate is pivoted to the side pieces by the pins 4 which may engage any one of a number of holes 5 formed in the side pieces so that the vertical position of the plate can be adjusted. A weight 6 is fastened to the free end of the plate and tends to hold the plate in its lowest position but will permit the plate to be raised by the pressure of the material passing through the chute. A guiding plate 7 is fastened to the upper scraper 8 of the front mill and the rear of the lower scraper 9 overlaps the bottom of the chute.

This invention is somewhat similar to that forming the subject matter of an application filed by me on August 27, 1926, Serial No. 132,026, except that the chute in the present case extends downwardly at an angle from the horizontal, whereas in the before mentioned case, the chute is horizontal. In the present case also, a weight is used in place of the springs of the before mentioned case to hold the top plate in lowered position.

As will be seen, the material passes through the chute by pressure exerted on the material within the chute by the material entering the chute from the front mill and also by the action of gravity.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be undestood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

In combination with a sugar mill having one set of rollers arranged above the plane of a second set of rollers, a chute extending downwardly from the upper set to the lower set so that the material will pass through the chute under the action of gravity and also under the pressure exerted by the material entering the chute from the first set of rollers upon the material in the chute, the top part of the chute being pivotally supported at its front end, a weight connected with the rear end of the top part for resisting upward movement of the top and a curved guide having its front end attached to the upper scraper of the first set of rollers and its rear portion extending under the front end of the top part of the chute for guiding the material from the scraper into the chute.

In testimony whereof I affix my signature.

JOSE ALVAREZ PEREZ.