

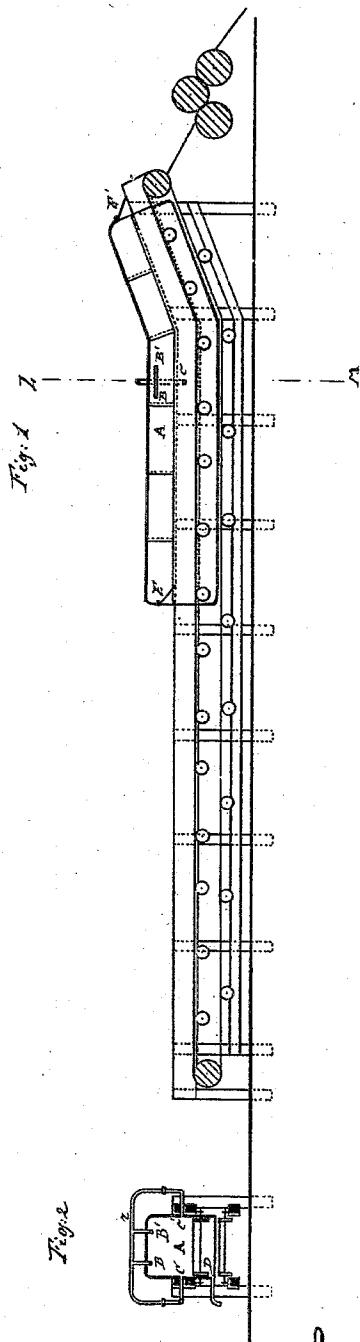
(No Model.)

C. BLANDIN.

APPARATUS FOR COAGULATING THE ALBUMINOUS MATTERS CONTAINED  
IN SUGAR CANE.

No. 287,902.

Patented Nov. 6, 1883.



Witnesses  
George T. Chapman  
Robert E. Pratt

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# UNITED STATES PATENT OFFICE.

CHARLES BLANDIN, OF LA POINTE-À-PITRE, GUADELOUPE, WEST INDIES.

## APPARATUS FOR COAGULATING THE ALBUMINOUS MATTERS CONTAINED IN SUGAR-CANE.

SPECIFICATION forming part of Letters Patent No. 287,902, dated November 6, 1883.

Application filed April 6, 1883. (No model.) Patented in France June 17, 1882, No. 150,442.

*To all whom it may concern:*

Be it known that I, CHARLES BLANDIN, a citizen of the Republic of France, residing at La Pointe-à-Pitre, Guadeloupe, one of the 5 West Indies, have invented new and useful improvements in apparatus for coagulating the albuminous matters contained in sugar-cane by means of steam, hot air, or hot water, (for which I have obtained a patent in France, 10 No. 150,442, dated June 17, 1882,) of which the following is a specification.

In the accompanying drawings, Figure 1 is a side view of the apparatus. Fig. 2 is a cross-section upon line L M of Fig. 1.

15 This apparatus, mounted on the chain carrying the cane to the extracting-mill, consists, first, of a large trough, A, of sheet metal, into which extends the upper part of the chain, which feeds the cane forward in proportion to 20 the motion imparted to it; second, four injectors or nozzles, whereof two, B B', are in the upper part of the trough, and two, C and C', on the sides; third, on the lower side of this trough there is a hole or pipe, D, which allows the 25 condensed steam to be drawn off; fourth, at the inlet and at the outlet of the trough two

hinged traps or valves, E E', serving to retain the injected steam within the trough.

Operation of the apparatus: When the cane which is to be worked up is placed on the 30 chain, and when this is set in motion, the injecting of steam, hot water, or hot air is started as soon as the cane begins to pass into the apparatus, and it continues as long as the chain works. The steam, hot air, or hot wa- 35 ter so injected raises the cane to a temperature more than sufficiently high for coagulating the albuminous matters contained in the sugar-cane, and causes the latter to arrive at the mill at a sufficiently high temperature to prevent 40 all fermentation after the extraction.

I claim—

In an apparatus for coagulating the albuminous matter in sugar-cane, the combination of a trough for holding sugar-cane with an endless chain for conveying said trough and pipes for supplying steam to said trough, substan- 45 tially as set forth.

CHARLES BLANDIN.

Witnesses:

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