

Patented May 29, 1917.

1,228,178.

Fig. 1.

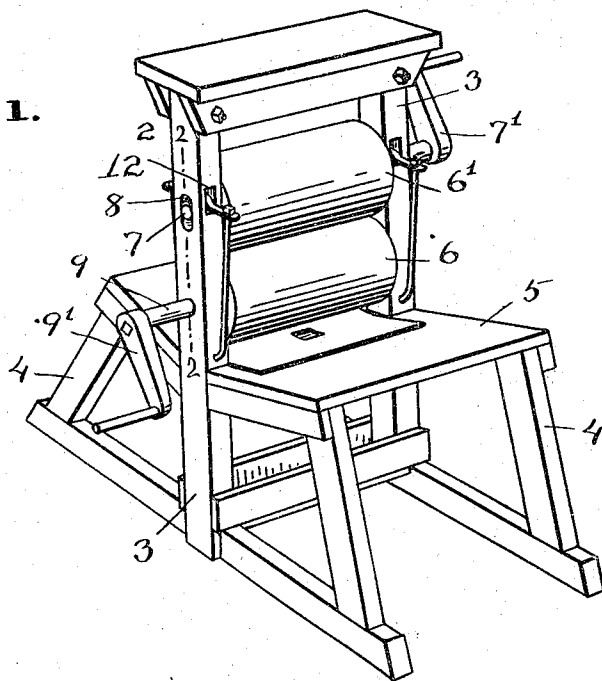
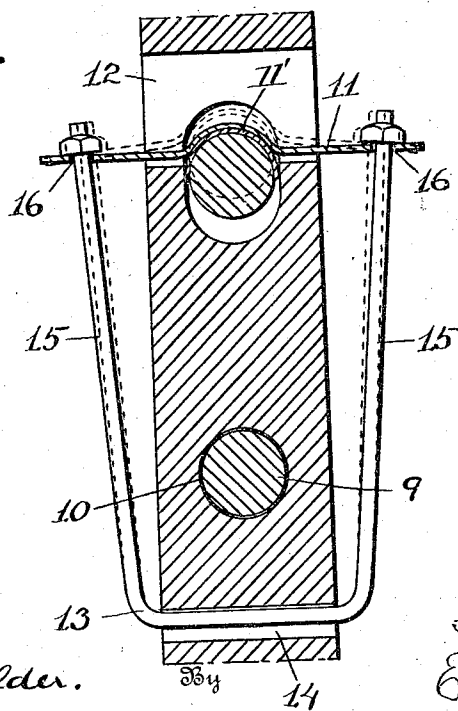


Fig. 2.



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CANE-MILL.

1,228,178.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SILAS E. BROOKER, a citizen of the United States, resident of La Crosse, in the county of Alachua and State of Florida, have made a certain new and useful Invention in Cane-Mills; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the invention.

Fig. 2 is a fragmentary section on the line 2-2 Fig. 1.

The invention has relation to hand-operated mills, designed mainly for expressing the juice from sugar cane, and it consists in the novel construction and combinations of parts, as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the numeral 2 designates a supporting frame, having central uprights 3 and lateral extensions 4, 4, provided with downwardly and inwardly inclined platforms 5, leading to the rollers of the mill.

These rollers 6, 6' are located one above the other, the upper roller having end journals 7 working in vertical slots 8 of said uprights, and the lower roller having end journals 9, bearing in perforations 10 of said uprights.

In order to provide for movement of the rollers with relation to each other, to allow the cane to pass between the rollers and to cause the rollers to exert a strong pressure upon the cane, to express the juice, horizontal transverse straps 11, of spring metal, engage and work in vertical slots 12 of the uprights, said straps having central upwardly-arched portions 11', engaging the end jour-

nals of the upper roller, and vertical U-form rods 13, of spring metal, engage at their lower ends transverse perforations 14 of said uprights and are provided with upwardly-extending diverging arms 15, located at the outside of said uprights, the upper free ends of said arms engaging end perforations 16 of said transverse straps.

In this way, as the cane is passed through the rollers of the mill, the transverse spring straps will be bent, and the vertical U-form loops will have the diverging branches thereof bent, the inherent spring of said straps and said loops exerting tension upon the upper roller, to press it toward the lower roller and thereby exert strong pressure upon the cane, to express the juice, the natural spring of the straps and loops acting to return such parts and the upper roller to normal position after the cane has been passed through the rollers.

The invention provides a simple and efficient hand-operated mill, that anyone can afford to buy and operate in his home. Suitable operating cranks 7', 9', are provided for the rollers.

I claim:—

In a sugar cane mill, a frame provided with vertical slots and with perforations, a roller mounted in said frame, a cooperating roller having end journals engaging said slots, spring straps engaging the end journals of said cooperating roller and provided at their ends with perforations, and spring U-form loops at right angles to said straps, engaging the perforations of said frame and having lateral arms engaging the perforations of said straps.

In testimony whereof I affix my signature, in presence of two witnesses.

S. E. BROOKER.

Witnesses:

L. J. KNIGHT,
L. F. OSTEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."