

A. & F. Brown.

Sugar Cutter.

N^o. 109,293.

Patented Nov. 15, 1870.

Fig. 2.

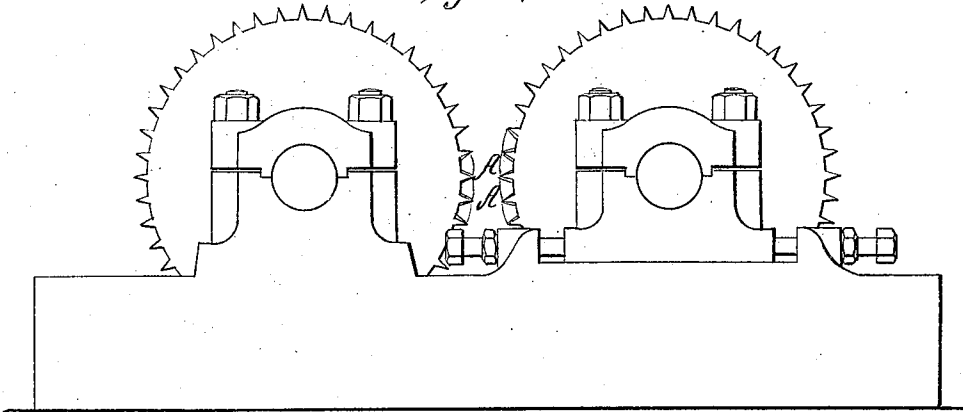


Fig. 3.

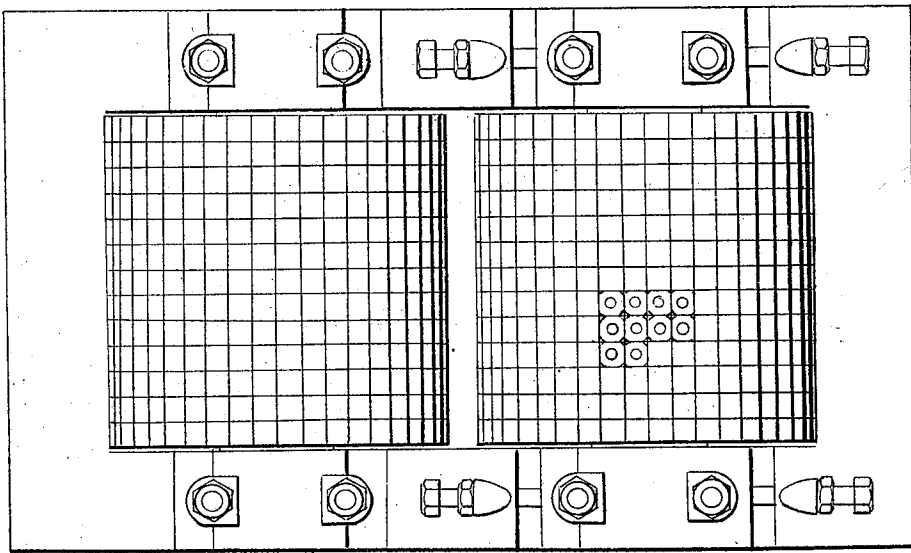
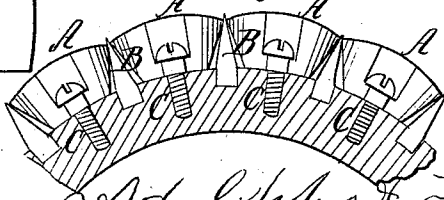


Fig. 1.



Witnesses:
Nicholas Holland.
Henry Shelley.

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United States Patent Office.

ADOLPHUS BROWN AND FELIX BROWN, OF NEW YORK, N. Y.

Letters Patent No. 109,293, dated November 15, 1870.

IMPROVEMENT IN MACHINES FOR CUTTING LOAF-SUGAR.

The Schedule referred to in these Letters Patent and making part of the same.

We, ADOLPHUS BROWN and FELIX BROWN, of the city, county, and State of New York, have invented certain Improvements in Machines for Cutting Loaf-Sugar, of which the following is a specification.

Nature and Object.

This invention consists in adding a device to the improvements specified in the Letters Patent granted to us March 26, A. D. 1856, and recently extended for seven years; and said device is simply a block of some elastic substance, as India rubber, introduced in the spaces or squares, as the case may be, between the cutters that divide the slabs or strips of sugar into blocks, and this is done to prevent the sugar from sticking fast between said cutters, and thereby clogging the machine.

Drawing.

Figure 1 is a view, partly in section, showing the elastic element inserted between the cutters.

Figure 2 is an end view of said cutting-cylinders.

Figure 3 is a plan of the same, showing some of the spaces between the cutters, partially fitted with the recoil springs.

These elastic blocks may be introduced in various ways, but the one shown in the drawing is perfectly practical, and consists in forming the blocks of rubber, as at A, figs. 1 and 2, in squares nearly as large as the spaces between the cutters, leaving only sufficient

space for the compression of the rubber in said spaces or between the cutters, as seen at B B, fig. 1.

For the purpose of holding said blocks in position in said spaces, they may be formed, as shown at fig. 1, with holes in their centers, into and through which a holding-screw may be driven into the cylinder that holds the knives or cutters, as plainly seen at C C, figs. 1.

Said blocks may also be formed with a small shank or pin of the rubber itself, and forced into holes similar to those in which the screws here shown are inserted.

When said cylinders are provided with some such substance in said spaces, the small cubes of sugar that sometimes have a tendency to stick between the cutters are quickly removed, and the clogging of the machine thereby prevented; and such a device also assists greatly in keeping the cutters clean, so that much less pulverization of the sugar is produced.

Claim.

What we claim, therefore, is—

Blocks of some elastic substance, as rubber, inserted between the cutters of sugar-cutting cylinders, as described, and for the purposes set forth.

ADOLPHUS BROWN.
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Witnesses:

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