E. DUJOUR & F. COUPPÉ.

Improvement in Machines for Manufacturing Sugar Plums.

No. 123,773. Patented Feb. 20, 1872.

Fig. 2.

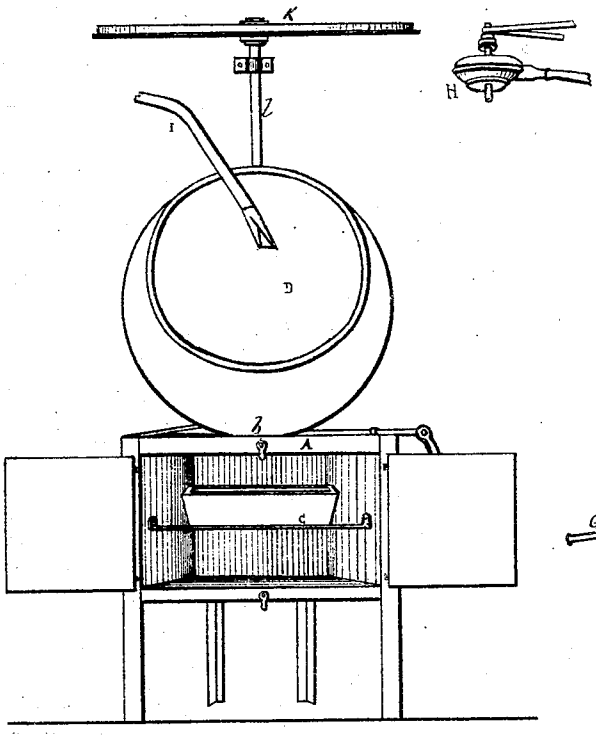
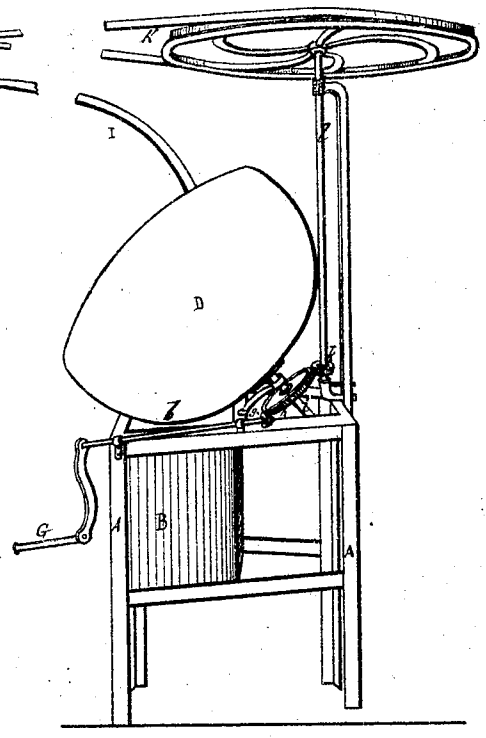


Fig. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

EUGÈNE DUJOUR AND FRANÇOIS COUPPÉ, OF CHARTRES, FRANCE.

IMPROVEMENT IN MACHINES FOR MANUFACTURING SUGAR-PLUMS.

Specification forming part of Letters Patent No. 123,773, dated February 20, 1872.

SPECIFICATION.

We, EUGÈNE DUJOUR, confectioner, and FRANÇOIS COUPPÉ, mechanician, both of Chartres, in the Department of the Eure et Loire, France, have invented "an Improved Machine for Manufacturing Comfits or Sugar-Plums," of which the following is a specification:

Nature and Objects of the Invention.

Our invention relates to a combined hot and cold air machine for making comfits, which machine may be worked by hand; the object of our invention being to enable the small confectioner to manufacture his own comfits more economically and equally as well, while employing the same materials, as is now done by large makers using the basins knows as "Pepon and Bertrand's."

Our improved machine coats the comfit in a uniform and regular manner, the product being of the same quality as if made in an oscillating pan. It considerably lessens the labor of the workman, who is no longer affected by the carbonic acid evolved from the large quantity of fuel required in the ordinary manufacture by hand, or by the too great heat; he is also spared the muscular effort now exerted in turning the comfits.

Description of the Accompanying Drawing.

Figure 1 is a side elevation of a machine embodying our invention; and Fig. 2 is a front elevation of same, with doors of heater thrown open to display interior arrangement.

General Description.

Our machine is composed of an iron framing, A, supporting a pan or basin, D, and its mechanism. Within the framing is set a heater or stove, B, in which is placed a receptacle, C, filled with charcoal, covered with ashes. This receptacle may be brought nearer to or withdrawn from the basin, according to the temperature it is desired to maintain. This heater B is closed in front by two doors, serving for the introduction of the above-mentioned receptacle. The bellying part of the basin D containing the comfits passes into the heater B, as indicated by *b*. The basin is preferably of copper, and it may be readily lifted from its axle for cleaning. A fly, K, acting as a pulley and turning horizontally, drives a fan, H, producing a cold blast, directed onto the comfits by the pipe I.

On turning the crank G, the bevel-pinion *g*, gearing into *h*, causes the axle *i* to revolve, carrying with it the basin D. The wheel *h*, also gearing with the pinion *k* on the axle *l*, drives the fly K and fan H.

The pearling ("perlage") may be effected by means of an ordinary pearler, ("perloir,") fitted to the basin.

Suppose the speed of the crank to be one: that of the basin will be equal to one-half, and that of the fly to two. The speed of the fan will vary, according to the quantity of cold air required.

To sum up: Our machine offers a saving of time, of power, (by the arrangement of the mechanism,) of fuel, and of gum. The product is from twenty-five to thirty kilogrammes per basin.

Claim.

We claim as our invention—

The combination of the basin D with the heater B and fan H, substantially as and for the purpose hereinbefore set forth.

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FRANÇOIS COUPPÉ.

Witnesses:
JEAN BAPTISTE GIRARD,
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