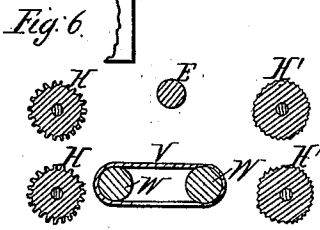
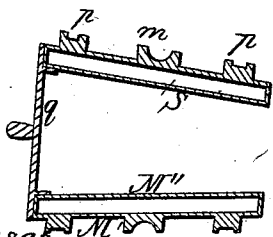
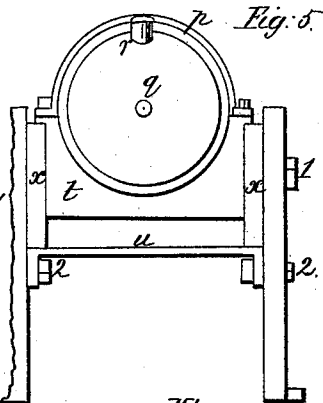
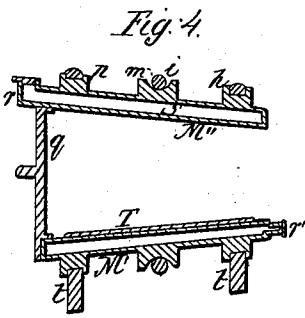
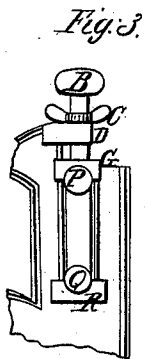
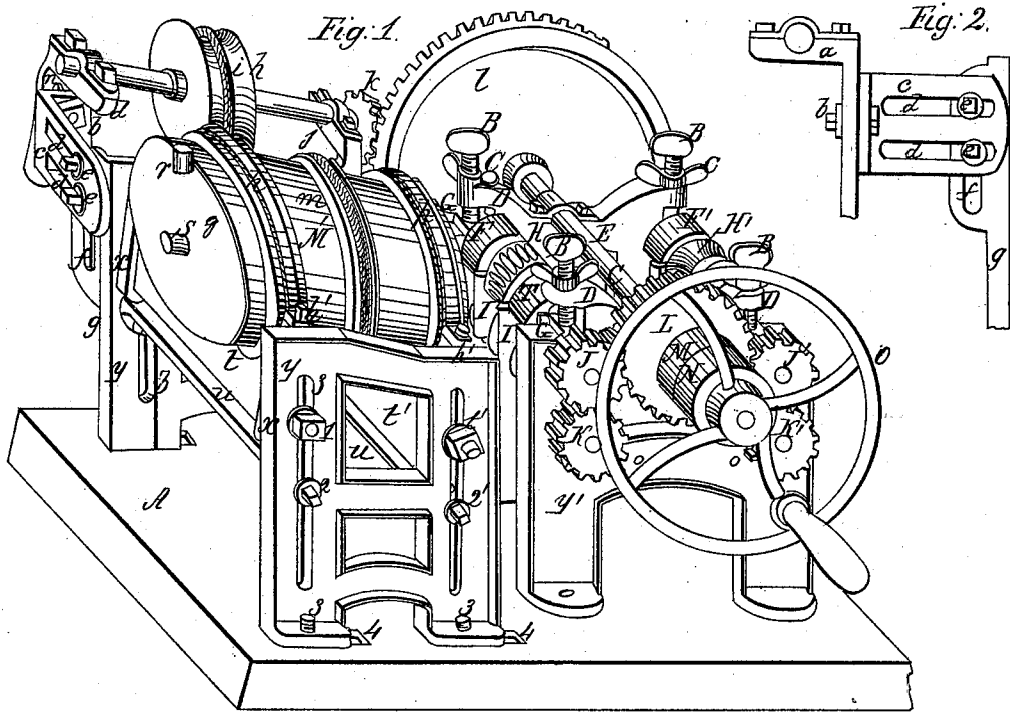


J. S. Batchelder.

Making Confectionery.

N^o 103,962.

Patented Jan. 7, 1870.



Witnesses,
Joseph P. Bryant
Edgar C. Gibson.

Inventor,
Joseph S. Batchelder.

UNITED STATES PATENT OFFICE.

JESSE S. BATCHELDER, OF FORT WAYNE, INDIANA.

IMPROVEMENT IN CANDY-MACHINES.

Specification forming part of Letters Patent No. 103,962, dated June 7, 1870.

To all whom it may concern:

Be it known that I, JESSE S. BATCHELDER, of Fort Wayne, in the county of Allen and State of Indiana, have invented an Improved Candy-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings and letters marked thereon, making a part of this specification, in which—

Figure 1 is a perspective representation of my improved candy-machine; Fig. 2, Sheet 1, an elevation of the device for adjusting the shaft of drive-wheel to suit the position of the adjustable batch-receiver; Fig. 3, a broken side elevation of a part of the roller-frame, showing how the shafts of the candy-rollers may be changed to make different styles of candies; Fig. 4, a longitudinal section of the batch-receiver, showing the hot-water chamber surrounding it; Fig. 5, an end elevation of the batch-receiver as it is arranged in its frame; Fig. 6, Sheet 2, a longitudinal section of the batch-receiver, rollers, &c., the frame not being shown.

The nature of the present invention consists of a rotating conical truncated batch-receiver, which is provided with a surrounding hot-water chamber, in order that the batch of candy may be kept in the proper consistency when making the sticks, and that the sticks may be properly twisted; further, in combination with the batch-receiver, the novel means provided for changing the rollers so as to make different styles of candy, said rollers being a double set for better forming the stick; also, in the adjustable arrangement of the frame of the batch-receiver, whereby the said receiver may be conveniently moved to or from the said rollers and removed from the frame, as the whole is hereinafter fully described.

A represents a substantial foundation which supports the frame-work of the machine, and which is so slotted out at 4 4, that that part of the frame shown at *y*, Fig. 1, Sheet 1, and held in place by nuts and bolts 33, may be readily removed to and from the rollers H F F, as the case may require, to suit the consistencies of the batches placed in the receiver and the rollers used for making any particular kind of candy. This frame-work is made of iron or any other suitable material, and it is

provided with a grooved frame-work, *x x*, on its inside, by means of which the semicircular rests *tt* of the batch-receiver *M'* have a suitable position relative to the rollers H F F, Fig. 1, Sheet 1, and Fig. 6, Sheet 2, the arrangement being such that the said rests *t* may be readily lifted out of the grooved frame *x x*, together with the receiver *M*, when it is required for repairs or for other necessary purposes. This receiver is made of any non-corrosive metal, copper being the best for the purpose, and its form is that of a truncated cone; and its construction consists of an outer plate, *M'*, an inner plate, *M''*, between which plates is a hot-water chamber, *S*, Fig. 4, Sheet 1, and Fig. 6, Sheet 2, and also of a lid, *q*, and a receiver, *r*, for the reception of hot water at its larger end, and a vent-pipe, *r'*, Fig. 4, for allowing the air to escape as the water flows into the chamber *S*, the water being withdrawn from the same pipe with which the chamber is supplied as the receiver is now constructed; but it (the water) may be withdrawn by any other means, if found more convenient. The receiver is held to the rests *t* by means of semicircular hoops, *p*, Fig. 1, and it is rotated by means of a band or cord, *i*, which is driven by a wheel, *h*, whose shaft has adjustable bearings in standards *j* and *a*. This receiver may be raised or lowered, as the case may require, and held in any suitable position by means of set-screws 1 on either side of the machine, a plate, *u*, and set-screws 2 being used as a support for the frame *y* and the inner frame-work, *x x*, and prevent the outer end of batch-receiver frame having too low a pitch. The inside of the receiver *M'* is provided with two or more ribs, *T*, placed on its inner periphery, in order that the batch may always be carried around with the said receiver when rotated by the means above set forth, said ribs consisting of short pieces of wire soldered or otherwise fastened to inner plate, *M''*, as shown in Fig. 4.

Rigidly attached to the frame *y y* is a projecting frame-post, *g*, Figs. 1, 2, which supports a compound adjustable arm, *c a*, and is provided with slots *d*, through which bolts *e* are put to hold the part *c* in place when once adjusted on the frame *y*. That part *a* of the compound arm shown at *a* is held to the part *c* by means of a bolt and nut, *b*, Fig. 2. The object of this arrangement in the matter of compound arm is to so raise and lower the shaft of drive-

wheel *h*, that said wheel may occupy a proper position relative to the batch-receiver *M'* when the latter is adjusted by means of the set-screw *l*, the opposite end of the shaft of wheel *h* being held in position by means of a compound slotted arm, *j*, Fig. 1, which is held to the frame *y'* by an ordinary bolt, and has a construction identical to the arm shown at *c a*, except that the arm *a* in one case is turned in and the other turned out for the convenience of supporting the pinion *k* in a suitable position relative to the main drive-wheel *l*. This drive-wheel *l* is hung on a shaft, *C*, which has bearings on the frame *y'*, and it has a small drive-wheel, *L*, fixed to it for the purpose of driving the pinions *J J K K'*, which rotate the inner candy-rollers, *H F F*, and rollers *H' F'*, Fig. 1, Sheet 1, and Fig. 6, Sheet 2, said rollers being removable by means of set-screws *B*. Between said rollers *H F F* and rollers *H' F'* are placed two rotating rollers, *W*, on suitable pivots, and around the rollers is placed an endless carrying-belt, *V*, in order that a suitable support may be provided for the candy as it is passing between the aforesaid rollers, and thus keep it from being stretched.

To use the machine, fill the chamber *S* with

boiling water. Then remove the lid *q* and fill the batch-receiver *M'* with the batch, (properly striped,) and draw it through far enough to reach the inside rollers. Then put the machine in motion by means of the crank-wheel *O*, or other suitable power which will rotate the receiver fast enough to give an ordinary stick of candy about two twists in its length.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The rotating batch-receiver *M'*, provided with a surrounding hot-water chamber, *S*, and operated with reference to the rollers *H F F* and *F' H'*, as set forth.

2. In combination with the batch-receiver *M'*, pulley *h*, and arms *c a* and *j*, the rollers *H F F* and *H' F'*, when arranged to operate with the belt *V*, as and for the purpose set forth.

3. In combination with the batch-receiver *M'*, the pulley *h*, when its shaft is adjusted by the compound arms *c a* and *j*, as specified.

JESSE S. BATCHELDER.

Witnesses:

JOSEPH P. BRYANT,
EDGAR E. GIBSON.