No. 853,740. PATENTED MAY 14, 1907.

A. SCHOBER.

CANDY WORKING MACHINE.

APPLICATION FILED DEC. 20, 1906.

Fig. 1.

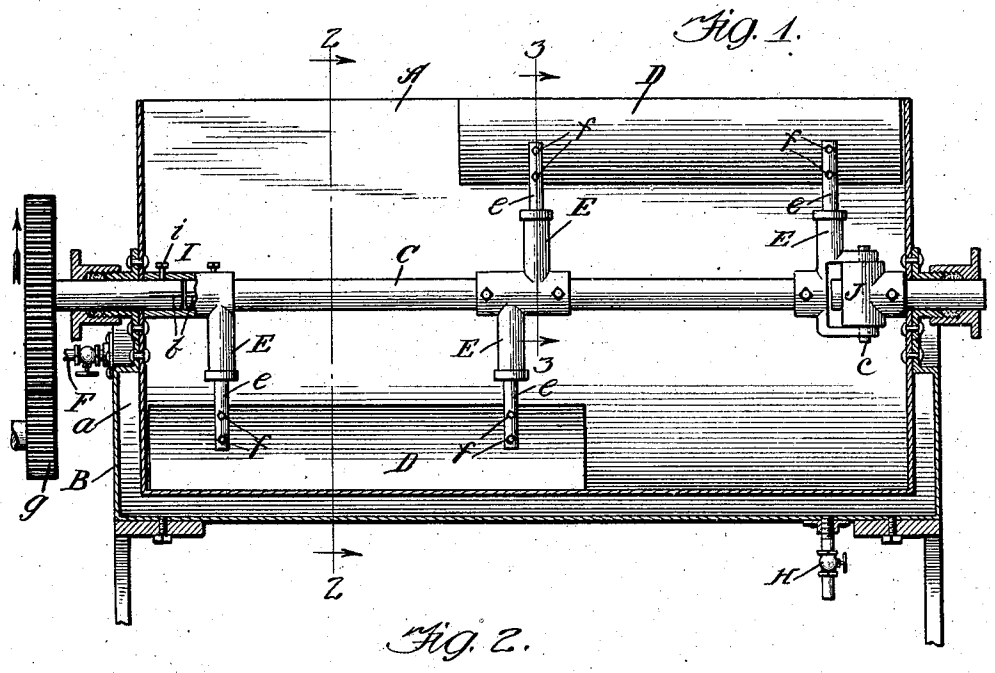


Fig. 2.

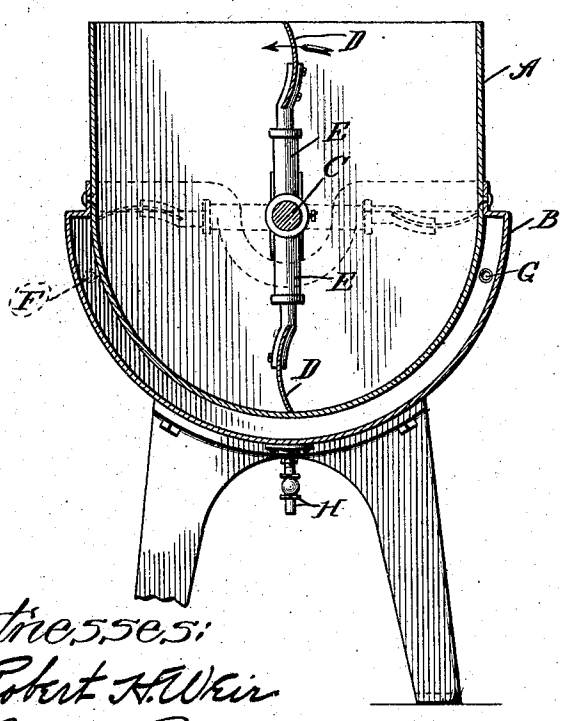
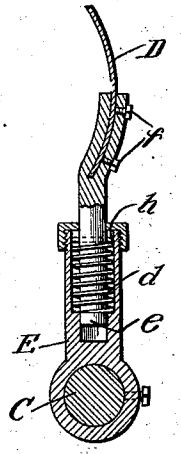


Fig. 3.



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AUGUST SCHOBER, OF CHICAGO, ILLINOIS.

CANDY-WORKING MACHINE.

No. 853,740. Specification of Letters Patent. Patented May 14, 1907.

Application filed December 20, 1906. Serial No. 348,753.

To all whom it may concern:

Be it known that I, AUGUST SCHOBER, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Candy-Working Machines, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it appertains to make and use the same.

This invention has for its object the provision of means whereby melted candy may be mechanically mixed and kneaded to the proper consistency for making into shapes for the market. Heretofore this operation has been performed manually by means of a paddle or other tool in the hands of the workmen, the mass of cream or melted candy being placed on a stone for manipulation.

My present invention produces a machine of simple construction which will operate rapidly and efficiently all of which will be hereinafter fully described, the particular improvements being subsequently pointed out in appended claims.

In the drawings, which fully illustrate the invention, Figure 1 is a vertical longitudinal section of the improved machine; Fig. 2 is a vertical transverse section of the same on the line 2—2 of Fig. 1, and Fig. 3 is a detail section on the line 3—3 of Fig. 1.

The working chamber consists of a vat or tank, A, having an open top and a semicircular bottom, a jacket, B, being secured on the bottom of the tank and extending part way up the sides of the same as clearly shown. This jacket forms, with the bottom of the tank, a water or steam space, *a*, through which water or steam may be circulated for which purpose an inlet, F, and an outlet, G, are mounted on the end of the said space or chamber. A drain cock, H, is also provided at the bottom of the said space or chamber to facilitate the cleaning of the same. A longitudinal shaft, C, is mounted in the ends of the vat and extends centrally through the same, the said shaft being made in sections connected by a knuckle joint, J, and a coupling sleeve, I, as shown most clearly in Fig. 1. The end members or sections of the shaft are journaled in suitable boxes on the end walls of the vat and one end section carries a gear wheel in mesh with a pinion, *g*, on a driving shaft which may extend to any suitable or convenient motor. This driving section of the shaft and the central section thereof are provided at their adjacent ends with a feather, *b*, or key-seat to guide or engage the coupling sleeve I which is secured to the end section by a set screw, *i*, as shown. The opposite end section of the shaft is joined to the central section through a knuckle joint, as stated, the members of the joint being connected by a removable pin, *c*. At intervals along the shaft are radial hollow arms, E, in which are fitted the pins or stems, *e*, the outer ends of which pins or stems are curved to one side and carry the curved bladers or scrapers, D. Within the arms and around the pins or stems are coiled springs, *d*, the opposite ends of which bear against the stop, *h*, on the stem and an internal annular shoulder of the arm whereby the pins will be normally pressed outward, the outward movement of the pins being arrested by caps on the ends of the arms, as will be readily understood. Two scrapers or blades are employed, each being carried by two of the radial arms E and the blades are arranged on opposite sides of the central shaft as well as opposite ends of the same. The blades are held removably in the ends of the arms by means of set screws, *f*, as shown most clearly in Fig. 3.

The candy-forming cream or materials being poured into the tank, water is caused to circulate around the bottom of the same from the inlet F to the outlet G and the desired reduction of the temperature of the material quickly accomplished. The shaft being then rotated, the blades or scrapers will be caused to move over the bottom of the tank and take up the material and turn the same so as to effect a thorough working or kneading of the same. Inasmuch as the blades are in different transverse planes, the material will not only be thrown from side to side but also caused to fall from end to end of the tank, the kneading being thereby accomplished rapidly and thoroughly. When the material has been worked sufficiently, the coupling I is disconnected and the central section of the shaft may then be swung up out of the tank upon the pin *c* as a pivot so as to facilitate the removal of the candy from the tank. If it be desired to entirely remove the shaft for cleaning or other purposes, the pin *c* is taken out from the knuckle joint and the central section of the shaft may then be easily lifted from the tank.

Having thus described my invention, what

I claim and desire to secure by Letters-Patent is:—

1. In a mixing or kneading machine, the combination with the tank or vat, of a central shaft mounted therein and formed in sections, a knuckle joint connecting the central section of the shaft with one end section, and a coupling sleeve connecting the central section of the shaft with the opposite end section.

2. In a mixing and kneading machine, the combination with the tank or vat, of a longitudinal shaft mounted centrally therein, radial arms carried by said shaft, and radially adjustable concave scrapers or blades secured to and extending between said arms parallel with the shaft.

3. In a mixing or kneading machine, the combination with the tank or vat, of a central shaft therein, radial arms carried by said shaft and having longitudinally curved ends, and concave scrapers seated in and secured to said curved ends of the arms.

4. In a mixing or kneading machine, the combination of a vat or tank, a central longitudinal shaft therein, hollow radial arms on said shaft, pins fitted in said arms, springs coiled around said pins within the arms and holding the pins normally outward, and scrapers carried by the said pins.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

AUGUST SCHOBER

Witnesses:
D. W. HEFFRON,
W. A. CADDICK.