

No. 697,255.

Patented Apr. 8, 1902.

A. KACZOROWSKI.
CENTRIFUGAL MACHINE.

(Application filed Oct. 25, 1901.)

(No Model.)

Fig. 2.

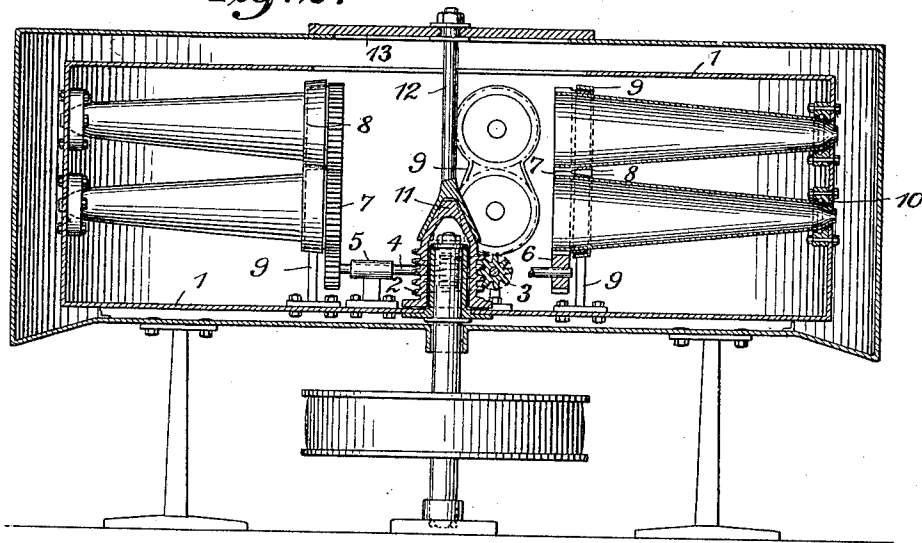
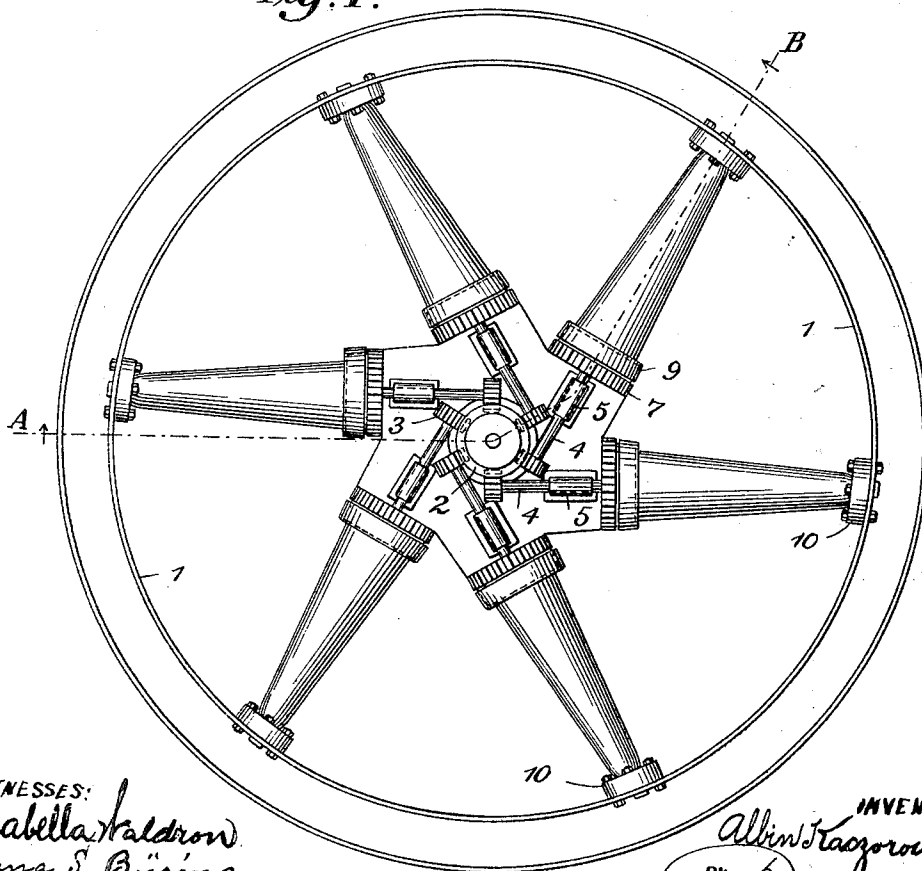


Fig. 1.



WITNESSES:

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ALBIN KACZOROWSKI, OF KALISCH, RUSSIA.

CENTRIFUGAL MACHINE.

SPECIFICATION forming part of Letters Patent No. 697,255, dated April 8, 1902.

Application filed October 25, 1901. Serial No. 79,980. (No model.)

To all whom it may concern:

Be it known that I, ALBIN KACZOROWSKI, a subject of the Czar of Russia, residing at Kalisch, in the Empire of Russia, have invented a new and useful Improvement in Centrifugal Machines for Treating Sugar-Loaves, of which the following is a specification.

My invention relates to centrifugal machines for treating sugar-loaves, and it includes a rotary carrier and means associated therewith for rotating the loaves upon their axes as they rotate with the carrier.

The invention also includes the details of construction to be hereinafter described, and particularly pointed out in the claims.

In order to render the present specification easily intelligible, reference is had to the accompanying drawings, in which similar numerals of reference denote similar parts throughout the several views.

Figure 1 is a plan view of the apparatus, and Fig. 2 a vertical section on line A B of Fig. 1.

Within the rotary centrifugal drum 1 a worm 2 is mounted, with which a series of worm-wheels 3, arranged within the drum around the said worm, engage. The spindles 4 of the said worm-wheels are suitably mounted in bearings 5. Each worm-wheel spindle carries a pinion 6 at its outer end, which engages the lower member 7 of a pair of superposed gears 7 and 7', suitably mounted in standards 9 by means of short sleeves 8. These sleeves serve to support the thick end of the loaves, the pointed end of the same being supported in ball-bearings 10. As will be clearly seen from Fig. 1, the loaves are not radially arranged, but tangentially to a circle concentric with the centrifugal drum. The worm 2 is seated on the end of the driving-spindle of the centrifugal drum and is retained stationary by means of its square or polygonal head 11, over which a corresponding cap of the bar 12 engages, the said bar being attached to the plate 13 of the stationary drum-housing of the centrifugal machine.

The device operates in the following manner: When the drum 1 is rotated, the sta-

tionary worm 2 rotates all the worm-wheels 3 and with them the sleeves 8, holding the sugar-loaves, so that these loaves will not only rotate with the drum, but will simultaneously be rotated around their own axes. The bearings 10 are hollow—i. e., they allow the fluid to pass out through the same into the centrifugal housing.

The method of applying the fluid to the drum and also the manner of heating the drum are not described, being known in connection with similar machinery and forming no part of the present invention.

I claim as my invention—

1. In combination with a centrifugal drum for treating sugar-loaves, a set of tangentially-arranged holder-sleeves for the loaves and means for rotating the same around their own axes when the drum is rotated in the manner and for the purpose substantially as described.

2. In a centrifugal machine for treating sugar-loaves, the combination with a drum of a series of superposed holders for the ends of the loaves and means for rotating the same when the drum is rotated, the said holders being mounted to support the loaves in a direction tangential to a circle concentric with the drum-axis in the manner and for the purpose substantially as described.

3. In a centrifugal machine for treating sugar, the combination with a drum of a series of tangentially-arranged sugar-loaf-holding sleeves 8, a centrally-disposed stationary worm in the drum, a series of worm-wheels engaging said worm, said wheels having bearings adapted to rotate with the drum, and ball-bearings in the drum-wall to support the outer end of the loaves in the manner and for the purpose substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ALBIN KACZOROWSKI. [L. S.]

Witnesses:

JUNOSSAH ZANIAWSKI,
ALEKSANDER MOROZESIOS.