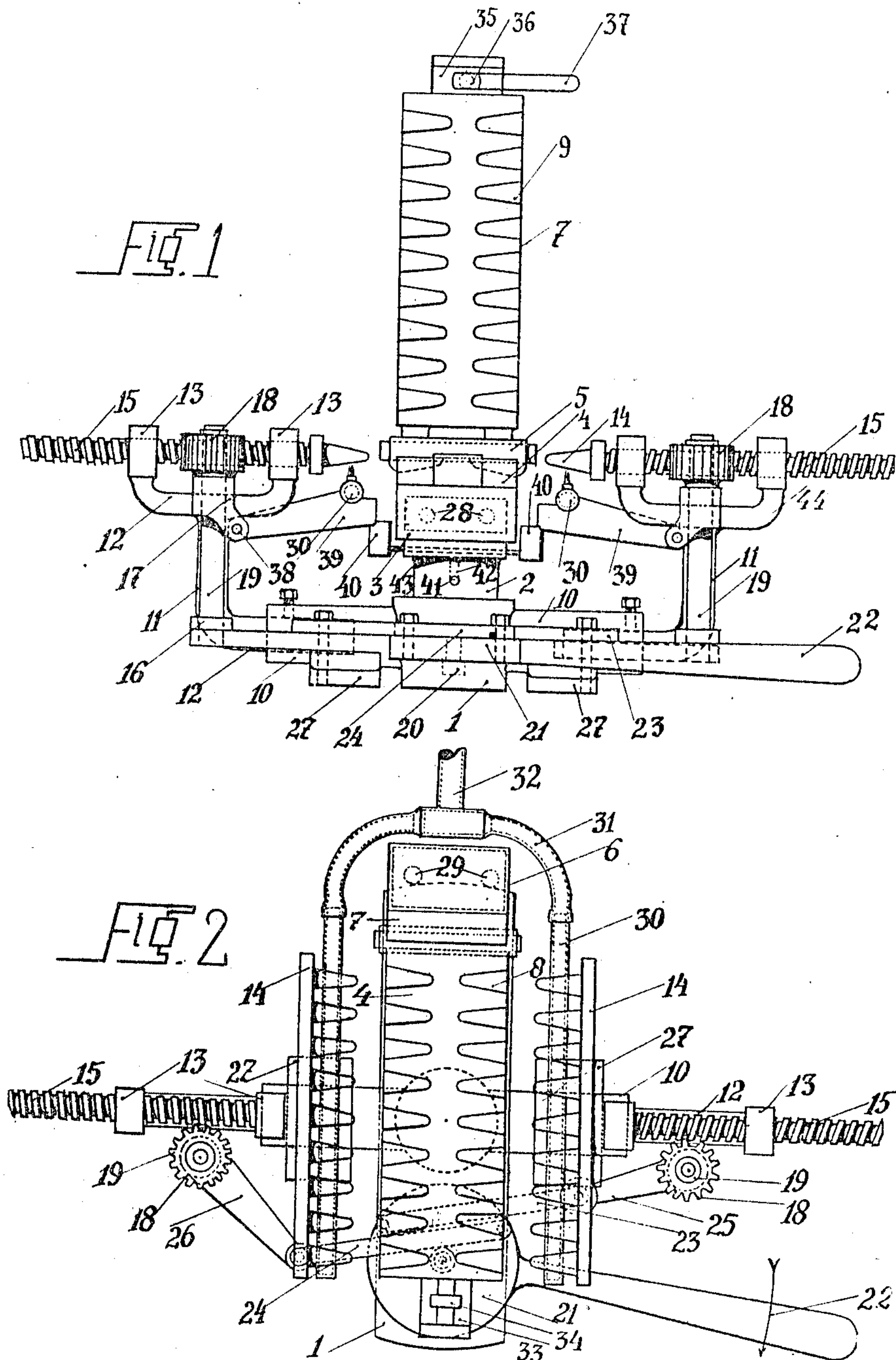


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 WAFFER MACHINE.
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949,371.

Patented Feb. 15, 1910.



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WAFER-MACHINE.

949,371.

Specification of Letters Patent.

Patented Feb. 15, 1910.

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To all whom it may concern:

Be it known that I, DESIDERIUS FABIAN, confectioner, a subject of the King of Hungary, and resident of Györ, Austria-Hungary, have invented an Improved Wafer-Machine, of which the following is a specification.

The object of the present invention is a wafer machine by means of which, various kinds of wafers more especially in series of cones open on one side, such as were hitherto baked, open on two sides and filled with different delicacies, may be baked.

The accompanying drawing shows a constructional form of the present invention.

Figure 1 is a front elevation of the open wafer machine, and Fig. 2 is a plan thereof.

The wafer machine essentially consists of a casing 3, which is fixed to a column 2 mounted on the base plate 1. On the casing 3 is mounted an exchangeable mold to suit the shapes of wafers, provided on two sides with indentations. The casing 3 is, by means of a hinge 5 connected to a similar casing 6 whose exchangeable mold 7 is provided with indentations 9 which correspond to the indentations 8 of the mold 4. If the upper and lower casings are placed over one another, one obtains conical hollows with stumpy ends.

On two sides of the plate 1 tubular cylindrical shoulders 10 are provided. In the interior of these shoulders are loosely mounted the horizontal arms 12 of frames 11. From the upper end of the frame 11, branches an arm 44 provided at its ends with bearings 13 in which the screwed spindle 15 of the rake like core 14 is horizontally adjustable. At the upper and lower ends of the frames 11, shoulders 16 are provided, said shoulders being adapted to support the bearing for the axle 19 of the toothed wheel 18 which is in mesh with the spindle 15.

At the front end of the base plate 1 is revolubly mounted on a pin 20 fixed to the base plate 1, a sheave 21, the latter being provided with a crank 22. To the sheave are also pivotally attached the arms 23, 24, to which the arms 25, 26 fixed to the free ends of the axles 19 are connected. The tubular shoulders 10 are supported by the plates 27. Through the hollows of the casings 3 and 6 pass gas pipes, by means of which the molds 4 and 7 are heated. The ends of the pipes projecting from the cas-

ings are connected by a flexible pipe to a tap. Under the rake like core is also arranged a gas pipe and the teeth of the core heated by the flame of the gas, passing through these pipes. The gas pipes 30 are connected by flexible pipes 31 to the main pipe 32. At the front of the casing 3 is a shoulder 33 provided with a recess 34 into which projects a catch 36 which is pivotally mounted on the shoulders 35 at the front of the casing 6.

The machine is actuated in the following manner:—On the mold 4, which is in the position shown in Figs. 1 and 2, is poured the flour preparation for the wafers, the core 14 having been previously, by turning the crank 22, in the direction of the arrow, Fig. 2, brought so close to the casing 3 or the mold 4 that the plate supporting the teeth rests against the side of the mold. The horizontal movement of the cores 14 is effected thereby that when turning the crank 22 of the sheave 21, the arms 23, 24 turn the arms 25, 26, and thereby also the toothed wheels 18. The toothed wheels which are in mesh with the spindle 15 turn the latter in a corresponding direction to the horizontal movement of the crank 22. The upper casing is then placed over the lower one, and by turning the handle 37, the catch 36 holds the two in the required position. The machine then remains in this position until the wafers are baked when the upper casing is raised and the handle 22 turned in a reverse direction to the arrow in Fig. 2. The baked conical hollow wafers are then taken out. When the cores 14 are to be turned about their axis formed by the spindle 15 into a vertical position for the purpose of cleaning them, care must be taken of the gas pipes. For this purpose the gas pipes 30 are by means of arms 39 pivotally mounted in an extension 38 of the bracket 17. The front ends of these arms 39 are supported on shoulders 40 which are movable in a horizontal direction. The shoulders 40 are moved in the following manner. In a horizontal opening in the column 2 is mounted a rod 41 from the turned up end 42 of which branch two horizontal arms 43. In order to permit the movement of the rod 42 and branches 43, free spaces are provided in the column 2. By moving the rod 41 the shoulders 40 slide from underneath the arms 39 when these arms together with the gas pipes mounted

thereon, turn downward in the shoulders 38 and the cores 14 can then be easily turned upward through 90°.

As the flames for heating the cores 14 are not required during the baking, the tap of the main gas pipe can be connected to the lever 22 in such a manner that when pushing the cores inward, the flames are lowered. The molds 4 and 7 are exchangeably mounted in their casings so that they can be replaced by other shaped molds. The cores are also exchangeable so that they are made to correspond with the hollows of the molds.

The machine can also be so connected that the gas pipe 30 can be arranged in the interior of the core and heat the core from the interior, whereby an equal heating is attained and the surfaces which come in contact with the material to be baked do not come in contact with the flames.

In this modification which is not shown in the drawing, the arm 39 and the shoulder 38 are omitted and the rake like core together with the spindle 15 and branch 44, is pivotally mounted so that it can be turned upward. In this instance the flames are regulated in the same manner as the flames of the pipes 28, 29 in the casings 3 and 6.

Having fully described my invention, what I claim and desire to secure by Letters Patent is:—

1. A wafer machine comprising two casings, a hinge connecting the two casings, an exchangeable mold provided in each casing, indentations provided in the molds, a plate on which one of the casings is mounted,

tubular shoulders projecting from the plate, horizontal arms mounted in the shoulders, frames mounted on the arms, branch arms mounted on the frame, bearings in the branch arms, a spindle mounted in the bearings, rake like cores mounted on the spindles, a sheave pivoted to the plate, a crank connected to the sheave, arms connected to the sheave, arms connected to the arms, axles connected to the arms, toothed wheels mounted on the axles, said toothed wheels being in mesh with the spindles, substantially as described and shown and for the purpose set forth.

2. In a wafer machine, comprising two casings hinged together, exchangeable molds provided with indentations in the casings, rake like cores projecting into the indentations, the combination of a rod in one of the casings, branch arms on the rod, shoulders on the branch arms, branch arms on which the rake like cores are mounted, a shoulder projecting from the arms, arms mounted in the shoulders, said arms being supported on the shoulders of the branch arms, gas pipes mounted on the arms, substantially as described and shown and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

DESIDERIUS FABIAN.

Witnesses:

A. HALIAN,
LEALE SKASY.