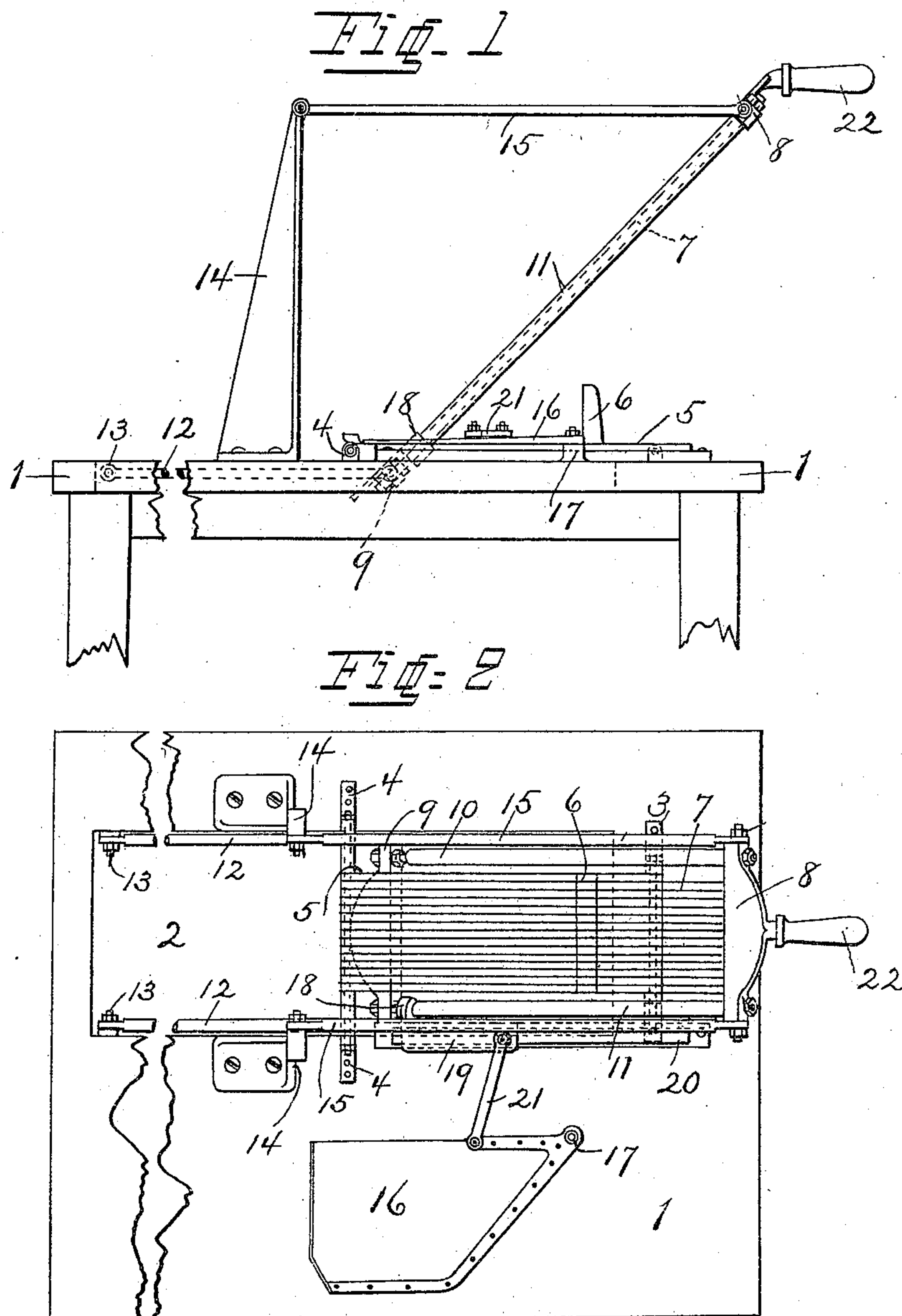


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 APPARATUS FOR CUTTING LARD OR THE LIKE.
 APPLICATION FILED JULY 19, 1909

944,410.

Patented Dec. 28, 1909.



Witnesses.

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To all whom it may concern:

Be it known that I, ANDERS JOHAN ALFRID BERGMAN, a subject of the King of Sweden, and a resident of Varamo, Sweden, have invented certain new and useful Improvements in Apparatus for Cutting Lard or the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

My invention relates to machines for cutting lard and the like into strips and cubes, and it has for its object to provide means for increasing the cutting action of the knives by imparting a drawing action thereto, substantially the same as that imparted to a hand-operated knife.

The invention consists of a series of stationary blades mounted in a base, and a series of coöperating movable blades mounted in a frame connected with the base by means of pivoted supports adapted to impart a combined longitudinal and arcuate movement to the frame; together with means operated by the movement of the frame to automatically remove the cut material from the stationary blades.

One embodiment of the invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a side elevation, and Fig. 2 a plan view of a complete machine.

In said drawing, 1 designates the base constructed in the form of a table provided with a rectangular opening 2. Mounted transversely across the opening and near one end thereof are two bridge pieces, 3, 4, in which are fixed, by any preferred means, a series of parallel blades 5. These blades have their cutting edges directed upward, and directly above them or resting thereon near one end is fixed an abutment 6 adapted to hold the material to be cut against displacement. A second series of blades, as 7, extend between and coöperate with the first series, said second series being mounted in a frame composed of two end members, 8, 9, which are connected by the side rods 10, 11. The end member 9 lies under the blades 5, and is pivotally connected at each end with one end of a rod 12, the other ends of the rods 12 being pivoted on bolts 13 mounted

in the side walls at one end of the opening 2. Bolted to and projecting perpendicular to the base 1 on each side of said opening 2 is a standard 14, and to the upper end of each standard is hinged at one end a rod 15, the other ends of the rods 15 being hinged to the ends of the end member 8. The rods 12 and 15 lie in parallel planes and move in parallel relation to each other. It will thus be seen that by means of the above-described mechanism a longitudinal and arcuate movement is imparted to the blades 7, substantially the same as that imparted to a hand-operated knife in cutting, or in other words, the blades 7 are simultaneously moved in the direction of their length and in the direction of the length of the stationary blades 5.

Means are provided for automatically removing the lard from the stationary blades after it has been sliced. Such means comprise a shelf, 16, preferably of the shape shown in Fig. 2, mounted at one corner on a pivot 17, which projects upward from the base 1 at the side of the knives 5. The swinging of the shelf on the pivot is effected by means of a collar 18 slidably mounted on the side rod 11 and connected with a sleeve 19 slidably mounted on a fixed guide-rod 20 which is mounted on the base 1 parallel to the fixed blades 5, said sleeve being connected with the shelf by a link 21 pivotally connected to the sleeve near the front end thereof and to the shelf at a point in rear of the pivot 17. As the movable frame carrying the blades 7 is pushed down by means of a handle 22 fixed to the end member 8, the collar 18 on the rod 11 is moved toward the handle, and with it the sleeve 19, causing the link 21 to swing the shelf 16 on its pivot and over the backs of the blades 7, and under the lard on the blades 5. When the handle is raised, either by hand, spring, weight or the like, into the position shown in Fig. 1, the shelf with the lard thereon is, by the means above described, automatically swung back into the position shown in Fig. 2. If the now sliced lard is to be cut into cubes, it is again placed in position on the blades 5 and the operation repeated.

I claim—

1. In an apparatus of the character described, a series of cutting members and means to simultaneously impart a longitudinal and arcuate movement thereto.

2. An apparatus of the character described, comprising a stationary cutting

member, a movable cutting member, supports for the latter mounted in parallel relation to each other adapted to impart a longitudinal and arcuate movement to the
5 movable member.

3. In an apparatus of the character described, a series of fixed blades, a series of movable blades, a frame for the latter, and pivoted supporting members for the frame
10 mounted in parallel relation to each other.

4. In an apparatus of the character described, a series of fixed blades, a series of blades movable between the latter, a frame for the movable blades, rods pivoted to the
15 frame, and means to support the rods in parallel relation to each other.

5. In an apparatus of the character described, a series of fixed blades, a series of movable blades, means to support the latter
20 in angular relation to the fixed blades, and means to move the latter in the direction of their length and in the direction of the length of the fixed blades.

6. In an apparatus of the character described, a base, a series of blades fixed thereon, a series of blades adapted to move between the blades of the fixed series, a frame for the movable blades, a rod pivotally connected to the base and to the frame, a support on the base, and a rod pivotally connected to the support and to the frame in
30 parallel relation to the aforesaid rod.

7. In an apparatus of the character de-

scribed, a series of fixed blades, a series of movable blades, a frame for the latter, means
35 to support the frame in angular relation to the fixed blades and to permit movement of the frame in a lateral and a longitudinal direction to the fixed blades, in combination with a swinging member, and mechanism
40 connecting the frame and swinging member to move the latter over the fixed and movable blades.

8. In an apparatus of the character described, a base having an opening therein, a
45 series of fixed blades mounted over the opening, a series of blades movable between the blades of the fixed series, a frame for the movable blades mounted in angular relation to the base, a rod pivotally connected to the
50 base and to the lower end of the frame, a support on the base, a rod pivotally connected to the support and to the top of the frame in parallel relation to the aforesaid rod, a shelf pivoted on the base, a slide mov-
55 able parallel to the fixed blades operable by the movement of the frame, and a link connecting the shelf and slide.

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

ANDERS JOHAN ALFRID BERGMAN.

Witnesses:

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ADR. FORSCRUM.