Bonfils & Grossmann,

Vegetable Cutter.

No. 107,592. Patented Sep. 20, 1870.

Fig. 1.

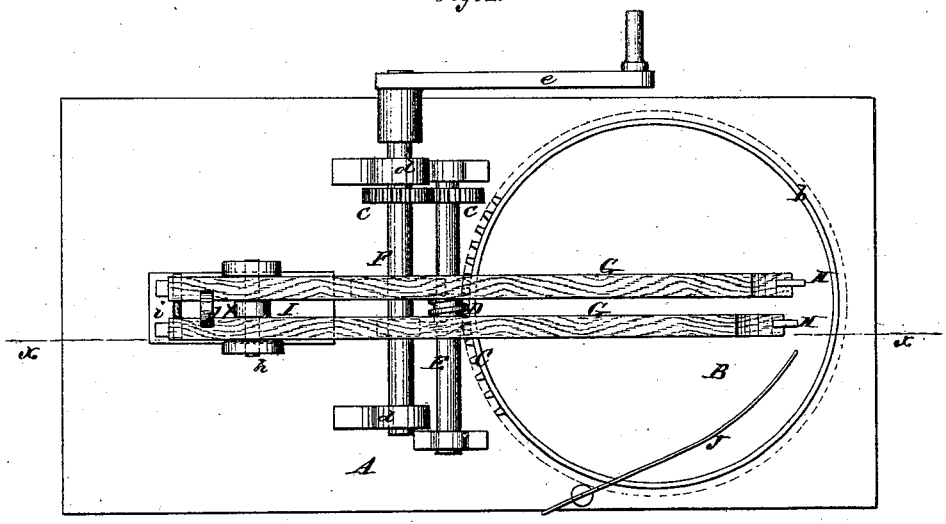
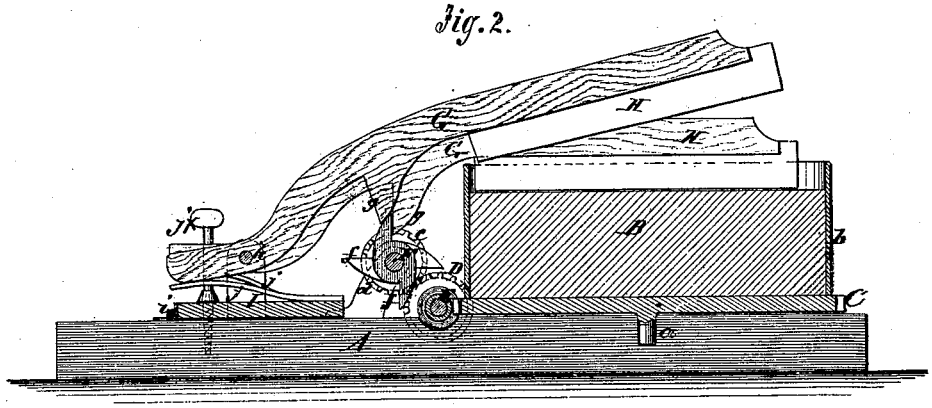


Fig. 2.



Witnesses:

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PAUL BONFILS AND JOHN GROSSMANN, OF WEST HOBOKEN, NEW JERSEY.

Letters Patent No. 107,592, *dated September* 20, 1870.

IMPROVEMENT IN MEAT AND VEGETABLE-CUTTERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, PAUL BONFILS and JOHN GROSSMANN, both of West Hoboken, in the county of Hudson and State of New Jersey, have invented a new and improved Machine for Mincing Meat and Vegetables; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a plan or top view of our invention.

Figure 2, a side sectional view of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention consists of a rotary table or chopping-block, in combination with one or more knives or cutters, arranged or applied in a novel way, so as to operate conjointly with the rotary table or chopping-block, and effect the result desired in a very thorough manner.

A represents a base, on which the working parts of the machine are placed, and

B is a rotary chopping-block, which turns on a pin, *a*, as a center, said block having a horizontal position, as shown in the drawing.

The block B is constructed of wood, encompassed by a metal rim, *b*, which extends upward a trifle higher than the blocks, in order to prevent the substance to be cut from falling off from the block.

At the bottom of the latter there is a concentric gear, C, or worm-wheel, into which a screw, D, on a shaft, E, meshes, said shaft being placed transversely on the base, and connected, by gears *c c*, with a driving-shaft, F, having its bearings *d d* also on the base A.

The shaft F is turned by a crank, *e*.

On the shaft F there are secured wipers, *f*, the number of the latter corresponding to the number of knives or cutters used.

These wipers act against projections *g* on the shafts G, to which the knives or cutters H of the machine are attached. Two shafts, G G, are shown in the drawing, but more or less may be used, as desired.

These shafts work on a rod, *h*, which passes through a head, I, secured to the base A by a hinge, *i*, said shafts having each a spring, *j*, bearing against the under side of its outer part, the springs being attached to the head I.

When the machine is in use the head is secured down upon the base by a screw, $j^{\times}$.

The operation is as follows:

The meat or vegetables to be cut are placed upon the block B, and, the shaft F being turned, the wipers *f f* raise the shafts G G, and, consequently, the cutters H H consecutively, the springs *j j* forcing the shafts and cutters down, as the wipers pass or leave the projections *g g*. During the operation of the cutters the table or block B is rotated by the screw D and worm-wheel or gear C, and the whole of the substance on the block B will consequently be acted upon by the cutter, the substance being kept within the scope of the action of the cutters by a curved plate, J, which extends over the upper surface of the block.

In order to remove the cut meat or vegetables from the block B, the screw $j^{\times}$ is unscrewed, and the head I raised up, so that the shafts G G and cutters H H will be entirely out of the way.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of pivoted choppers H, the hinged plate I, and screw $j^{\times}$, or its equivalent, so that the choppers may be turned back, when desired, to permit the ready removal of the chopping-tray and contents, as set forth.

2. The rotating chopping-block B, moved by a worm-gear C, the pivoted chopping-knives H, stationary scraper J, and the driving mechanism, all constructed and arranged as set forth, and for the purpose described.

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