

Patented Jan. 23, 1872.

Fig. 1.



Fig. 3.

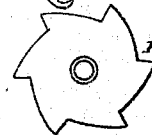
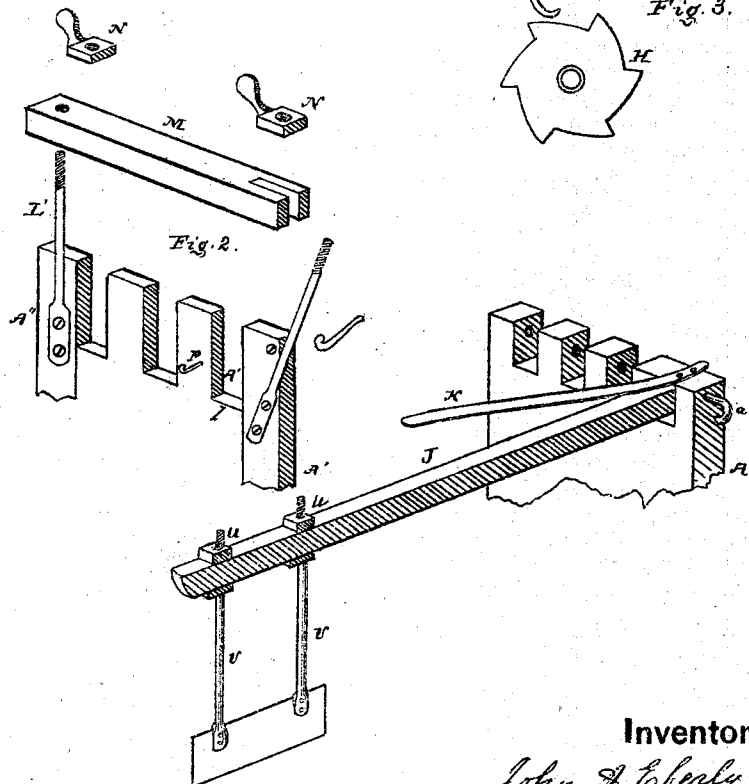


Fig. 2.



Inventor.

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UNITED STATES PATENT OFFICE.

JOHN ADAM EBERLY, OF REAMSTOWN, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND ABRAHAM GODSHALK, OF SAME PLACE.

IMPROVEMENT IN CHOPPING-MACHINES.

Specification forming part of Letters Patent No. 123,004, dated January 23, 1872.

I, JOHN ADAM EBERLY, of Reamstown, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Chopping-Machines, of which the following is a specification:

The nature of my improvements relates to the arrangement of adjusting the pressure of the springs attached to the long handles of the choppers and the toothed cam-lifters, to secure a more speedy action, together with the manner of revolving the chopping-block.

The accompanying drawing shows the several parts and their combination.

Figure 1 is a side elevation, with a portion of the driving-wheel removed to show the toothed cam and lifting device in place. Fig. 2 is a perspective view of the spring-block, fixed and hinged bolts, and thumb-screws. Fig. 3 shows the six-toothed cam H, with the intermediate curved inclined planes and the foot-piece I, attached to the handles J.

A brief explanation will enable any one skilled in the art to make and use my invention.

The principles are common, but applied in a diversity of arrangements as to their construction and mode of application—that is to say, revolving lifters, blocks, springs, and handled choppers are common, but differently actuated.

A suitable frame-work, A C, on a base or bed, B, for the block and case T, and appliances, arranged as shown in Fig. 1. The long handles or levers J are held in slotted guides A on a pivot-rod, *a*, and extend forward through slotted guides in A', so as to come over the revolving block for the attachment of the choppers by rods U, and secured by jam-nuts in the ordinary way, actuated by a handle and cogged gearing and fly-wheel, as shown in my patent dated September 20, 1870, in part, and not claimed as novel.

What I consider as my improvement is the spring-block M, with its one end slotted for the reception of the screw-rod L, which rod can be inclined or drawn out of the slot so as to allow the block M to be turned out of the way, and the two, four, or more chopper-arms J to be turned over or back, and raise the choppers from the block, for cleaning or otherwise, to any distance on the pivot-rod *a*, the other end of said block M being perforated for the fixed screw-rod L', on which it turns. The block is held in place by said rods L' L,

which are provided with screw ends for the thumb-nuts N, and by which the pressure is regulated on the ends of the springs K, which extend under the block M. There is a pin, *p*, inserted before the rod L, to prevent it from turning on its pivot *l* when in place. The long flat springs K are affixed to the top and pivot end of the long arms J. These arms or chopper-handles J have near their center an iron foot-piece, I, attached to the under side, which are made to pass over the inclined planes of the six-toothed cam H, for raising the choppers in a more effectual manner directly under the action of the springs, and to insure a strong cut at the terminus over the vertical side of said teeth or cam-way. The cogged wheel V is on the lifting or cam shaft E, and is provided with a crank-handle, and gives motion, through a pinion, to a shaft, F, which supports the fly-wheel O, and an endless screw-gear, G, which imparts motion to a pinion, R, on a shaft, P, and pinion Q, to revolve the block and cylinder T by meshing into the cogged flange W at the base. This base has a central step, and moves over friction-rollers X in the bed B.

The several improvements in the spring-block and lifting device, and mode of revolving the block, I deem novel in machines for mincing meat, and in such only claim them as new, combined and arranged, severally, as shown and described. Similar combinations on other mechanical devices or machines may have been used; hence I confine my claims simply when used in the manner and for the purpose specified. In other words,

What I claim is—

The arrangement of the spring-block M, slotted at one end for a movable screw-bolt, L, and perforated at the other end for a fixed or pivot-bolt, L', for the purpose of turning the block and adjusting the pressure of the springs K by means of the thumb-screws N, in combination with the straight lever or chopping-arms J, which sustain the springs K, and are provided with a foot-piece, I, actuating the choppers by means of the counter-curved and six-toothed cam H, the whole arranged and operated substantially in the manner shown, for the purpose specified.

JOHN A. EBERLY.

Witnesses:

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I. R. GARMAN.