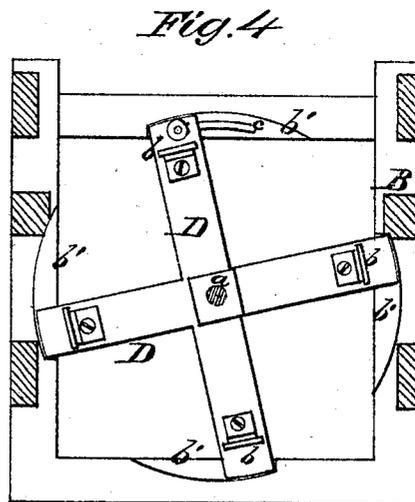
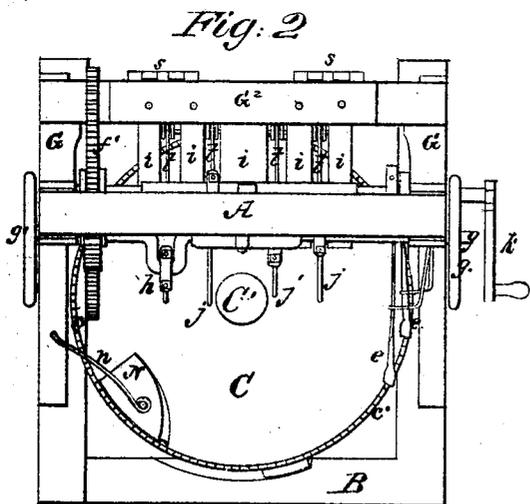
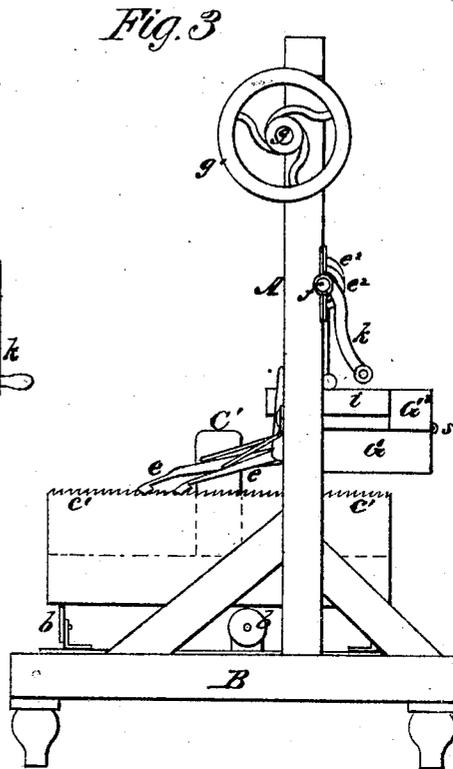
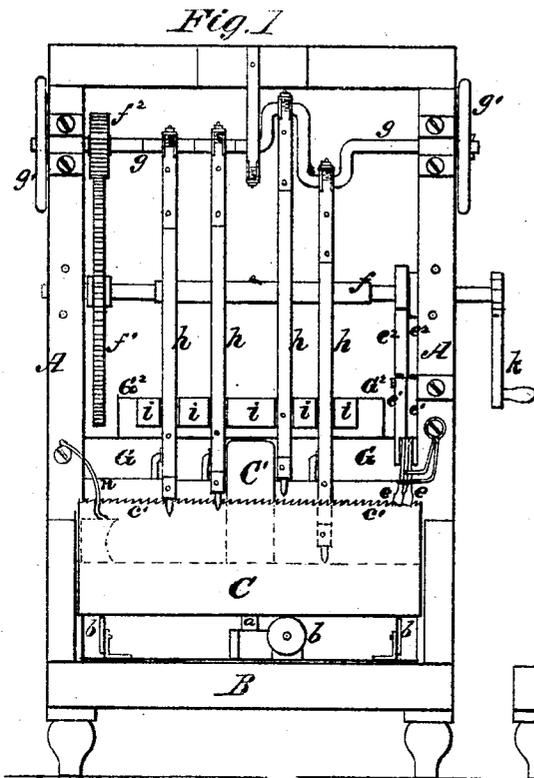


DANIEL PETERS.

Improvement in Meat Choppers.

No. 123,725.

Patented Feb. 13, 1872.



Witnesses
 R. Mansfield
 J. V. Campbell.

Inventor
 D. Peters
 by
 Wm. R. ...

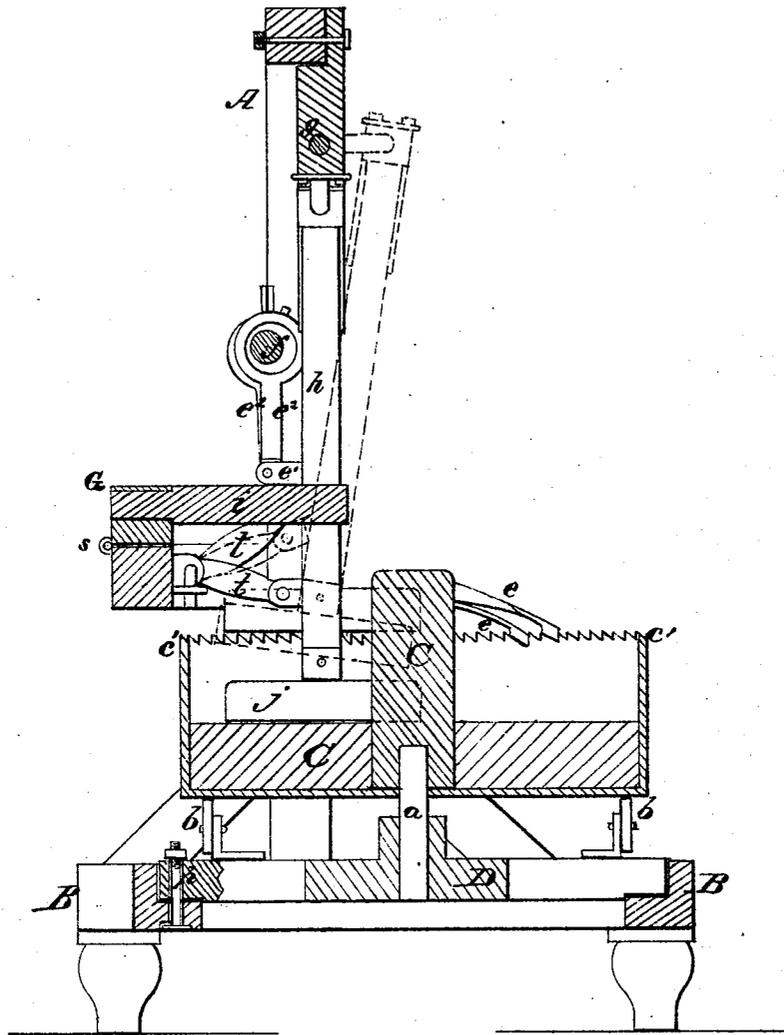
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Fig. 5



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UNITED STATES PATENT OFFICE.

DANIEL PETERS, OF FORT MADISON, IOWA, ASSIGNOR TO HIMSELF AND
J. M. HUNTER, OF SAME PLACE.

IMPROVEMENT IN MEAT-CHOPPERS.

Specification forming part of Letters Patent No. 123,725, dated February 13, 1872.

To all whom it may concern:

Be it known that I, DANIEL PETERS, of Fort Madison, in the county of Lee and State of Iowa, have invented a new and Improved Meat-Chopper; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1, Plate 1, is a front elevation of the machine. Fig. 2, Plate 1, is a top view. Fig. 3, Plate 1, is an elevation of one side of the machine. Fig. 4, Plate 1, is a top view of the base of the machine. Fig. 5, Plate 2, is a section taken vertically and transversely through the center of the machine.

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

This invention relates to certain novel improvements in machines for chopping meat, wherein are employed an adjustable intermittently-rotating chopping-block, a series of knives, which are operated by cranks, and so arranged and guided that they perform drawing cuts, and also a scraper, which will direct the material inwardly from the corner of the chopping-block so as to be constantly brought beneath the knives, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing, A represents an upright frame, of rectangular form, which is erected upon a quadrangular base, B. The inner upper edges of the bars composing this base B have inclined depressions *b'* formed into them, on the inclines of which the ends of four arms of a cross-frame, D, rest, so that by turning the latter about its center it will rise or descend. By means of a bolt, which is passed through one of the arms, and also through a curved slot, *c*, the frame D can be fixed rigidly to its frame B after it is properly adjusted. Near the extremities of the arms of frame D are anti-friction wheels *b*, on which is supported a cylindrical chopping-block, C, which is fitted into a metallic shell having ratchet-teeth *e* formed on its upper horizontal edge. The center pin *a* of the block C is received into a hub formed in the center of the cruciform

frame D; and directly above this pin *a* a center post, *U*, of cylindrical form, rises from the chopping-surface of the block, so as to prevent the accumulation of meat in the center of the block, where it would be out of the way of the choppers *j*. N represents a beveled and tapering clearer, which lies closely in the curve formed by the block C and that portion of its shell which rises above its surface, and which is held in its place by a rod, *n*, fastened to one of the uprights of the frame A. This clearer scrapes the meat from the extreme circumference of the block and directs it beneath the choppers *j*. Above the chopping-block, and having its bearings in the uprights of frame A, is a driving-shaft, *f*, on the extreme outer edge of which is a crank, *k*. There are two eccentrics keyed on shaft *f*, which communicate alternate backward and forward movements to two pawls, *e e*, through the medium of angle-levers *e' e'* and connecting-rod *e² e²*. The free hooded ends of the pawls *e e* are held down upon the ratched teeth *e'* of the chopping-block case by springs which are fastened to frame A. By these means the chopping-block and its case receive together a slow intermittent rotary motion when the shaft *f* is turned, which keeps the meat on the block constantly moving beneath the choppers. Above the shaft *f*, but on the front side of the frame A, is another shaft, *g*, which receives motion from shaft *j* through a large spur-wheel, *f¹*, and a pinion, *f²*. This shaft *g* has four cranks formed on it corresponding to the four chopping-knives *j*, and to each crank a knife-staff, *h*, is attached by a journal-box and straps. Each staff passes between the bars of a hinged rack, *i*, and below this rack each staff is connected by a link, *t*, to a frame, G, as shown in Fig. 5. The rack *i* is composed of a number of parallel bars secured to a bar, *G²*, which is hinged at *ss* to the frame G. The bars of this rack serve as guides for the staffs of the choppers, and prevent their displacement laterally. The hinging of the rack allows it to be thrown back when access below it is desired.

It will be seen that the crank-motion, together with the link-motion of the knife-staff, causes the knives to perform a draw-cut on the meat at each downward stroke. It will also be seen that the chopping-block and its case can be

readily adjusted up to the knives by simply turning the frame D, thus providing for the wearing away of the surface of said block.

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

1. The combination of the choppers *h j*, crank-shaft *g*, frame G, and links *t t*, arranged and operating substantially as described.

2. The combination of the hinged guide-bars or rack *i* and the choppers *h j*, arranged and operating as described.

3. The combination of the frame D, adjustable vertically in the manner described, chopping-block C, and choppers *h j*, arranged and operating as set forth.

4. The clearer N *n*, constructed and operating as described, in combination with the choppers *h j*, chopping-block C, and post C', arranged and operating substantially as described.

5. The combination of the set of pawls *e e*, rods *e² e²*, ratchet-teeth *e' e'* on the rim of the cylinder of chopping-block C, eccentrics of shaft *f*, and the choppers *h j*, arranged and operating as described.

DANIEL PETERS.

Witnesses:

W. B. DAVIS,
JOSEPH PEARL.