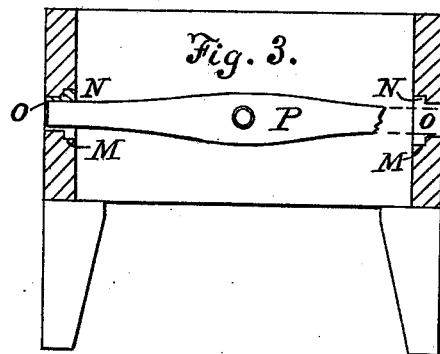
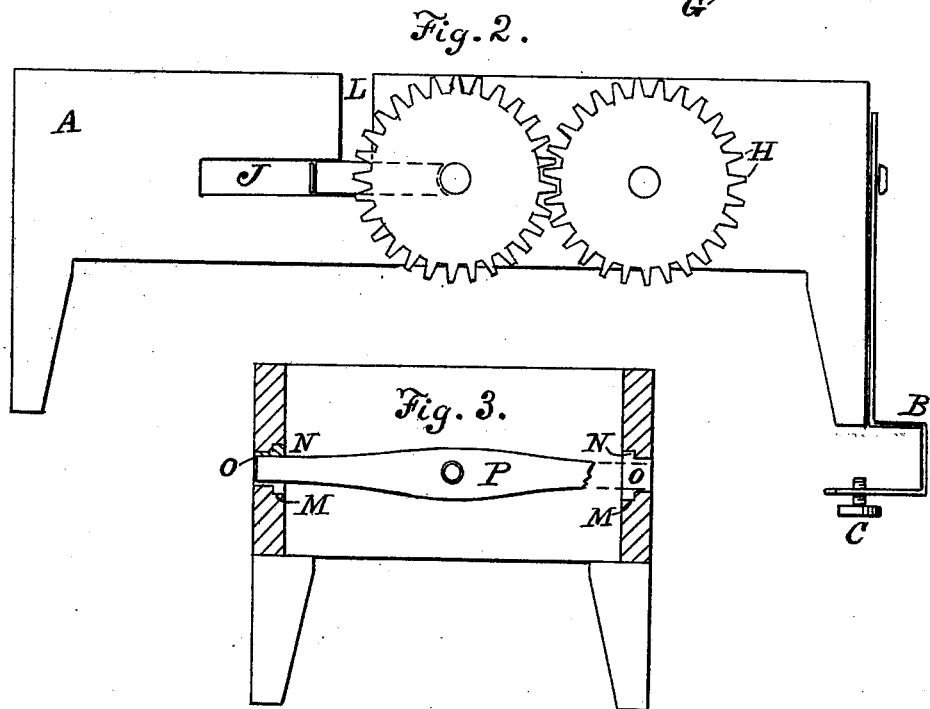
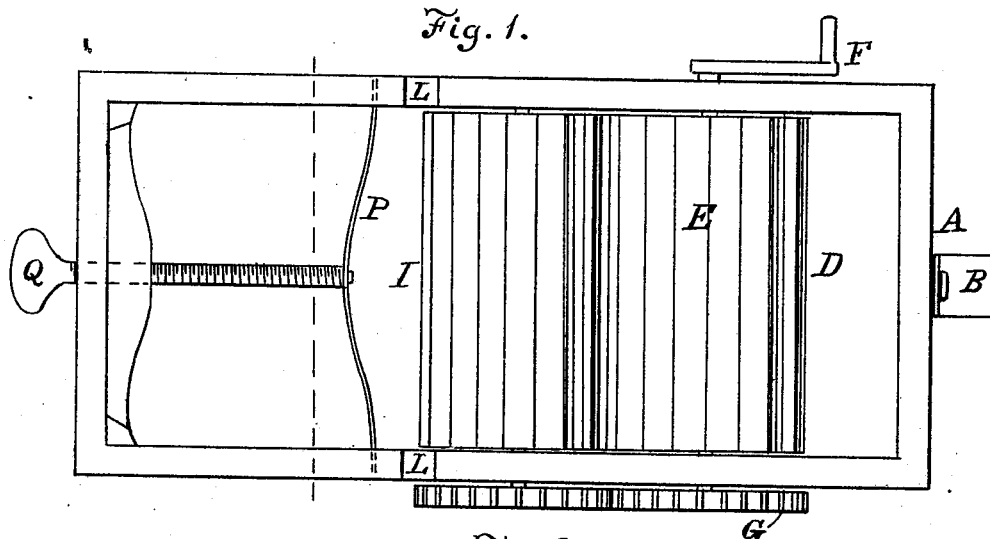


J. E. DILSAVER.  
Steak-Mangle.

No. 206,706.

Patented Aug. 6, 1878.



Witnesses:  
Theo. Mungen  
John Dermoghas

Inventor:  
John E. Dilsaver  
by H. J. Ennis,  
his Attorney.

# UNITED STATES PATENT OFFICE.

JOHN E. DILSAVER, OF BRAZIL, INDIANA.

## IMPROVEMENT IN STEAK-MANGLES.

Specification forming part of Letters Patent No. **206,706**, dated August 6, 1878; application filed May 27, 1878.

*To all whom it may concern:*

Be it known that I, JOHN E. DILSAVER, of Brazil, in the county of Clay and State of Indiana, have invented certain new and useful Improvements in Steak-Mangles; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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 letters of reference marked thereon, which form a part of this specification.

This invention has relation to meat-mangles for tendering beefsteaks; and it consists of a frame adapted to be fastened to the table, and provided with two corrugated rollers, the corrugations thereon having cutting or knife edges, one of said rollers being automatically adjustable, and also removable, and the two rollers being geared together at one end by cog-wheels having teeth longer than the depth of the corrugations upon said rollers, so that when operated the steak will pass between the rollers, and be partially cut and thoroughly mangled, all of which will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawing similar letters of reference indicate like parts in the invention.

Figure 1 is a plan view of machine. Fig. 2 is a side elevation, and Fig. 3 is a transverse section.

The frame A has the swinging clamp B attached to one end thereof, and provided with the thumb-screw C, for the purpose of securely fastening the frame to the table when it is desired to operate the machine.

The roller D, having the corrugations E, which are sharpened to produce knife or cutting edges, has its bearings in the sides of the frame A, and is provided at one end with the crank F, and at the other end with the cog-wheel G, the teeth H of which are deeper than the corrugations E.

The roller I is the counterpart of the roller D in every respect, except that it has no crank, and its bearings are automatically adjustable in the horizontal slots J in the side of the frame A, and that it may be lifted out of the sides of the frame A by sliding it backward to the vertical slots L.

Recesses M in the inner faces of the horizontal slots J receive shoulders N on the inner faces of the blocks O. The ends of a flat curved spring, P, rest against the rear square ends of the blocks O, the forward ends of said blocks being concave to fit the journals in the roller I, and its tension is regulated and its adjustment effected by a thumb-screw, Q, in the rear end of the frame A.

The steak to be mangled is introduced between the rollers D and I, and the crank F is turned to cause it to pass through. The cutting-edges of the corrugations E cut the steak nearly through, and the pressure it receives between the faces of the said corrugations mangles it thoroughly. The spring P permits the roller I to automatically adjust itself to different thicknesses of steak; and when the steak is so thick as to force the rollers sufficiently far apart to disengage the corrugations E, the teeth H of the cog-wheels G will cause the rollers D and I to still operate upon the steak, owing to the fact that the teeth H are made deeper than the corrugations E for that very purpose, and will be engaged with each other when the corrugations E have become disengaged.

To remove the roller I, draw the spring P back to the rear ends of the horizontal slots J, slide the blocks O back, and the journals of the roller I may be passed through the vertical slots L. The roller I may be then washed, and the roller D will be easy of access for the same purpose.

Having thus described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In combination, the frame A, provided with the horizontal slots J and vertical slots L, rollers D and I, having corrugations E, and cog-wheels G, having teeth H, blocks O, curved spring P, and thumb-screw Q, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I hereto affix my signature in presence of two witnesses.

JOHN E. DILSAVER.

Witnesses:

WILLIAM MENOUGH,  
JOSEPH L. ROCKHILL.