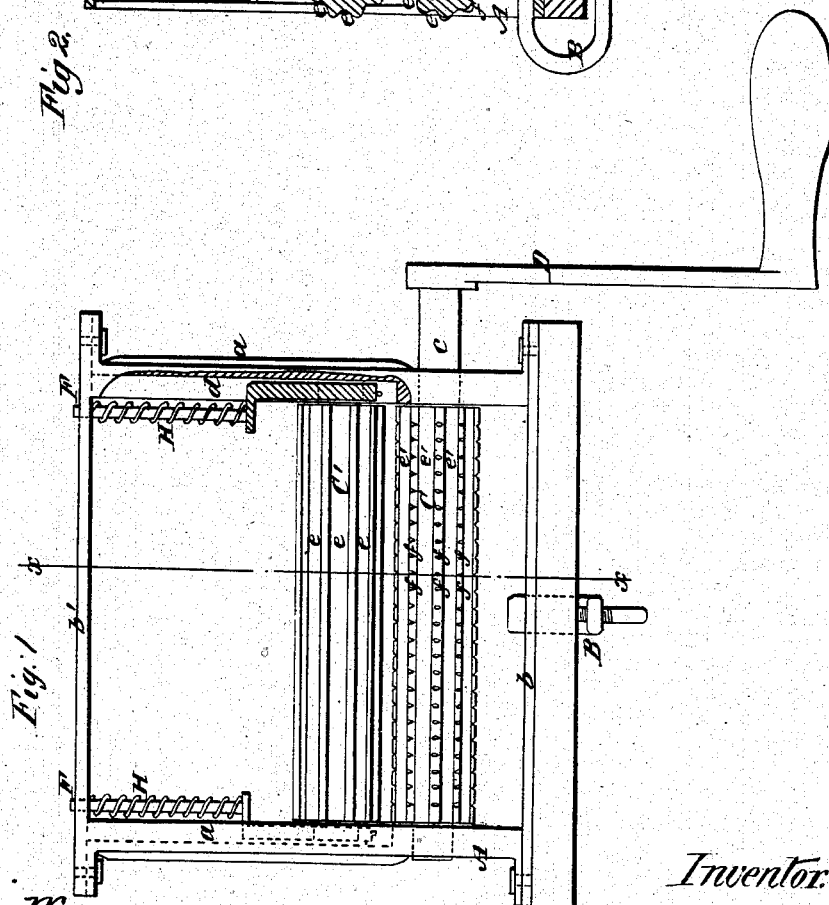
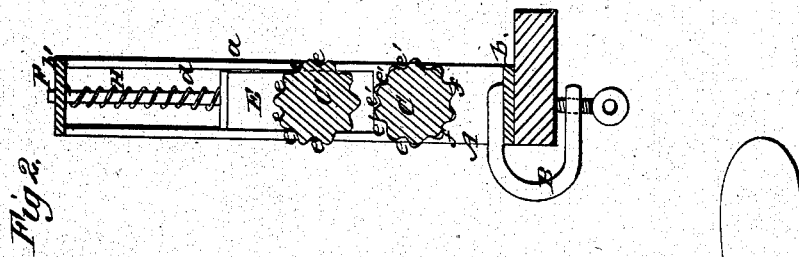


R. V. Jones,
Meat Tenderer,
No 48,072, Patented June 6, 1865.



Witnesses.
M. A. Hamer.
Geo. Tusch.

Inventor.
R. V. Jones,
By Munn & Co.

UNITED STATES PATENT OFFICE.

ROBT. V. JONES, OF CANTON, OHIO.

IMPROVED MEAT-CRUSHER.

Specification forming part of Letters Patent No. 48,072, dated June 6, 1865.

To all whom it may concern:

Be it known that I, ROBERT V. JONES, of Canton, in the county of Stark and State of Ohio, have invented a new and Improved Machine for Crushing Meat; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of my invention; Fig. 2, a transverse vertical section of the same, taken in the line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved machine for crushing meat, breaking the fibers thereof, so as to render it tender and more desirable for the table than it otherwise would be.

The invention consists in the employment or use of cylinders or rollers placed in a suitable frame, the upper roller being mounted in sliding boxes provided with guide-rods and spiral springs tending to press the rollers in contact, while the lower roller, to which the crank is applied, rotates in fixed bearings.

A represents a rectangular upright frame, composed of two upright side pieces, *a a*, connected at their upper and lower ends by cross-bars *b b'*, the former, which is the lower one, being grasped by a clamp, B, which secures the device to a table, bench, or any suitable fixture.

C C' represent two cylinders or rollers, the lower one, C, having its bearings in the side pieces, *a a*, of the frame A, with a crank, D, at one end of its shaft *c* for the convenience of turning it. The upper roller, C', has its bearings in slides E E, which are fitted in grooves *d* in the inner surfaces of the side pieces, *a a*, and have vertical rods F attached to them, one to each, which rods extend up through

the top cross-bar, *b'*, of the frame A, and are allowed to slide or work freely therein. On each rod C a spiral spring, H, is placed, the upper ends of the latter bearing against the under surface of *b'*, and the lower ends bearing on the tops of the slides E E. These springs have a tendency to keep the upper roller, C', pressed down in contact with the lower one, C. The rollers C C' are both corrugated, the upper one, C', by means of longitudinal grooves *e*, and the lower one, C, by similar grooves, *e'*, and circumferential grooves *f*, the last-named grooves having tooth-like projections on C. The meat to be crushed or operated upon is passed between the rollers C C', the lower one, C, being turned through the medium of the crank and subjected to a greater or less degree of pressure, according to the strength of the springs H, which should be sufficient to break the fibers of the meat. Thus by this simple device meat may be crushed and made tender with the greatest facility and without the laborious work and noise attending the usual pounding operation.

I would remark that the rollers may be of cast-iron, and the the frame also, if desired; but I do not confine myself to any particular material.

I claim as new and desire to secure by Letters Patent—

The combination of the roller C, rotating in fixed bearings, and provided with a crank, D, the roller C, mounted in sliding boxes E E, the guide-rods F F, and springs H H, one of the said rollers being provided with teeth and the other with longitudinal grooves, and all arranged to operate as specified.

ROBERT V. JONES.

Witnesses:

W. W. CLARK,
DANIEL DEEVATT.