

J. A. MORRELL.  
Meat-Cutting Apparatus.

No. 158,804.

Patented Jan. 19, 1875.

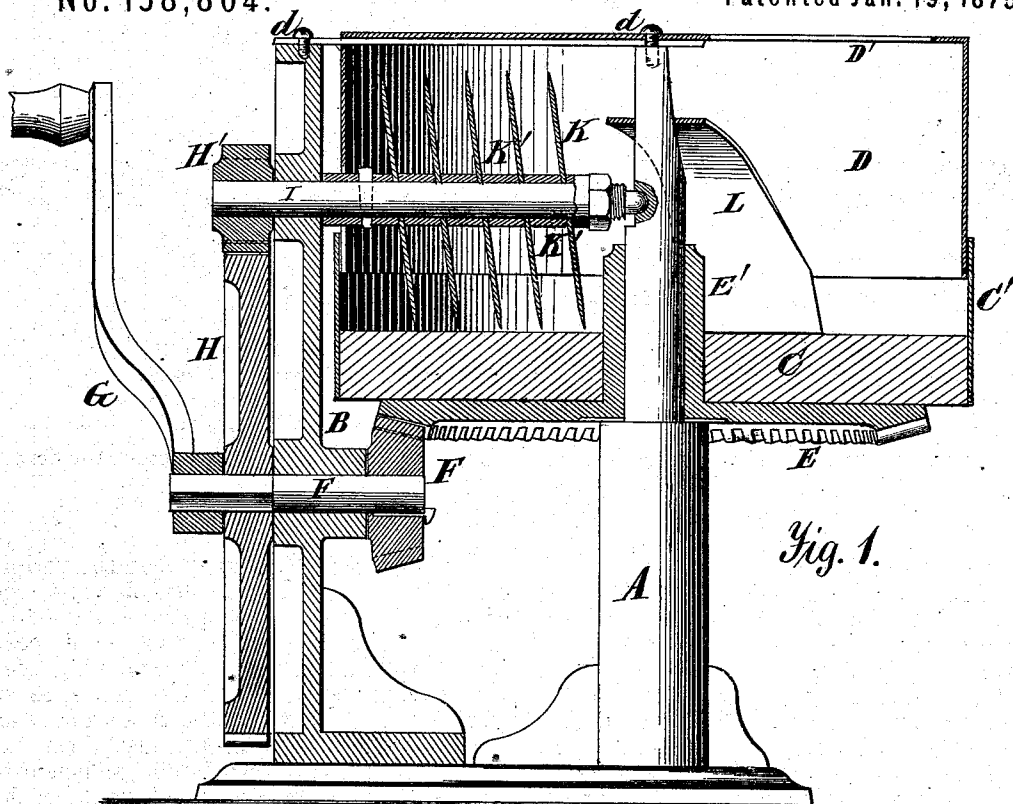


Fig. 1.

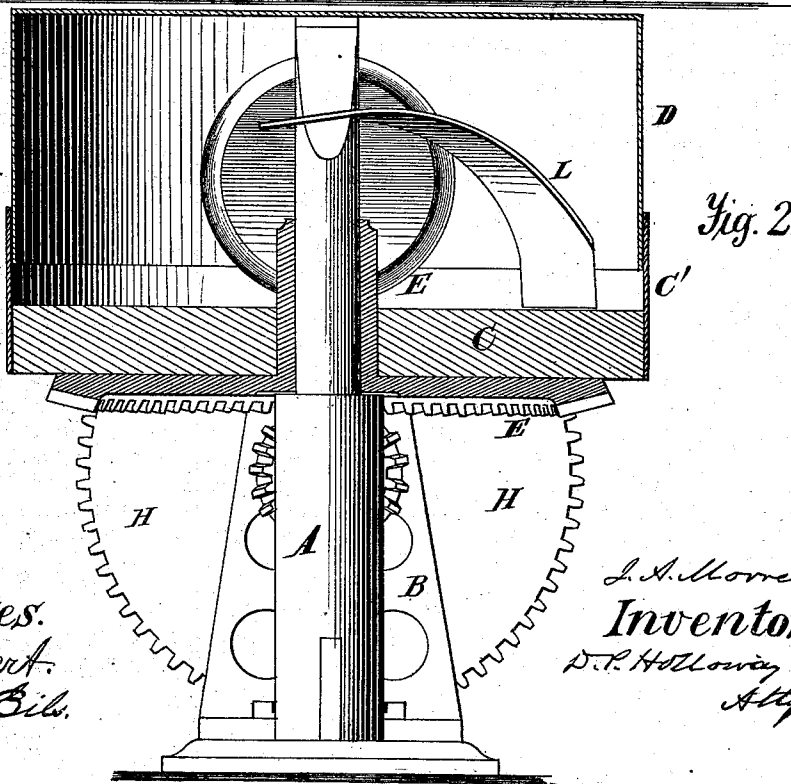


Fig. 2.

Witnesses:  
A. Ruppert.  
P. C. J. C. C.

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# UNITED STATES PATENT OFFICE.

JAMES A. MORRELL, OF NEW YORK, N. Y.

## IMPROVEMENT IN MEAT-CUTTING APPARATUS.

Specification forming part of Letters Patent No. **158,804**, dated January 19, 1875; application filed December 28, 1874.

*To all whom it may concern:*

Be it known that I, JAMES A. MORRELL, of the city, county, and State of New York, have invented a new and useful Improvement in Meat-Cutting Machines, of which the following is a specification:

In the annexed drawings making a part of this specification, Figure 1 is a vertical transverse section through the axis of the cutters. Fig. 2 is a similar section on a plane at right angles thereto.

The same letters are employed in both figures in the indication of identical parts.

The frame consists of a base and two vertical standards, A and B, upon which the different portions of the mechanism are sustained. C is a revolving bottom, turning around the standard A, and having a rim, C', extending up high enough to contain the exterior casing D, and make a joint to prevent the escape of the meat. The casing D is attached to the standards A and B, as shown, and comes down within the rim C', which revolves around its lower edge, and has an opening at D', to give access to the interior. The bottom C is attached to a beveled wheel, E, having a central sleeve, E', which surrounds and turns upon the standard A. It derives motion from the beveled pinion F on the overhung end of a short shaft, which has its bearings in the standard B, and is turned by the crank G. On the same shaft, F', is a spur-wheel, H, placed outside of the standard B, and driving a spur-pinion, H', on the shaft I, which has one of its bearings in the standard B, and the other in the standard A. This shaft carries the cutters K. These

are disks of steel, sharpened upon the periphery, and attached on the shaft I by beveled collars K', formed by cutting a tube diagonally. These collars give the knives an oblique position on the shaft, so that in revolving they will traverse the bottom C like the edges of spiral threads, somewhat, and thereby slice all the pieces which may pass under them, the range of their lateral travel being sufficient to cause them to traverse the whole width of the bottom immediately under the knives. To direct the meat carried on the bottom within the range of the action of the knives an inclined guide, L, is extended from the central standard, A, and curved in such form as to give proper direction to the meat. The bottom and the knives, where they come in conjunction, are caused to travel in the same direction, like a pair of rolls.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The circular cutters K, set obliquely on the shaft, substantially as set forth.
2. In combination, the oblique circular cutters K and the revolving bottom C.
3. In combination with the oblique circular cutters K, the revolving bottom C and the stationary guide L, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAS. A. MORRELL.

Witnesses:

S. H. GROSVENOR,  
R. B. DUNHAM.