

M. E. Russell

Meat Chopper

Nº 91,273.

Patented Jan. 15, 1869.

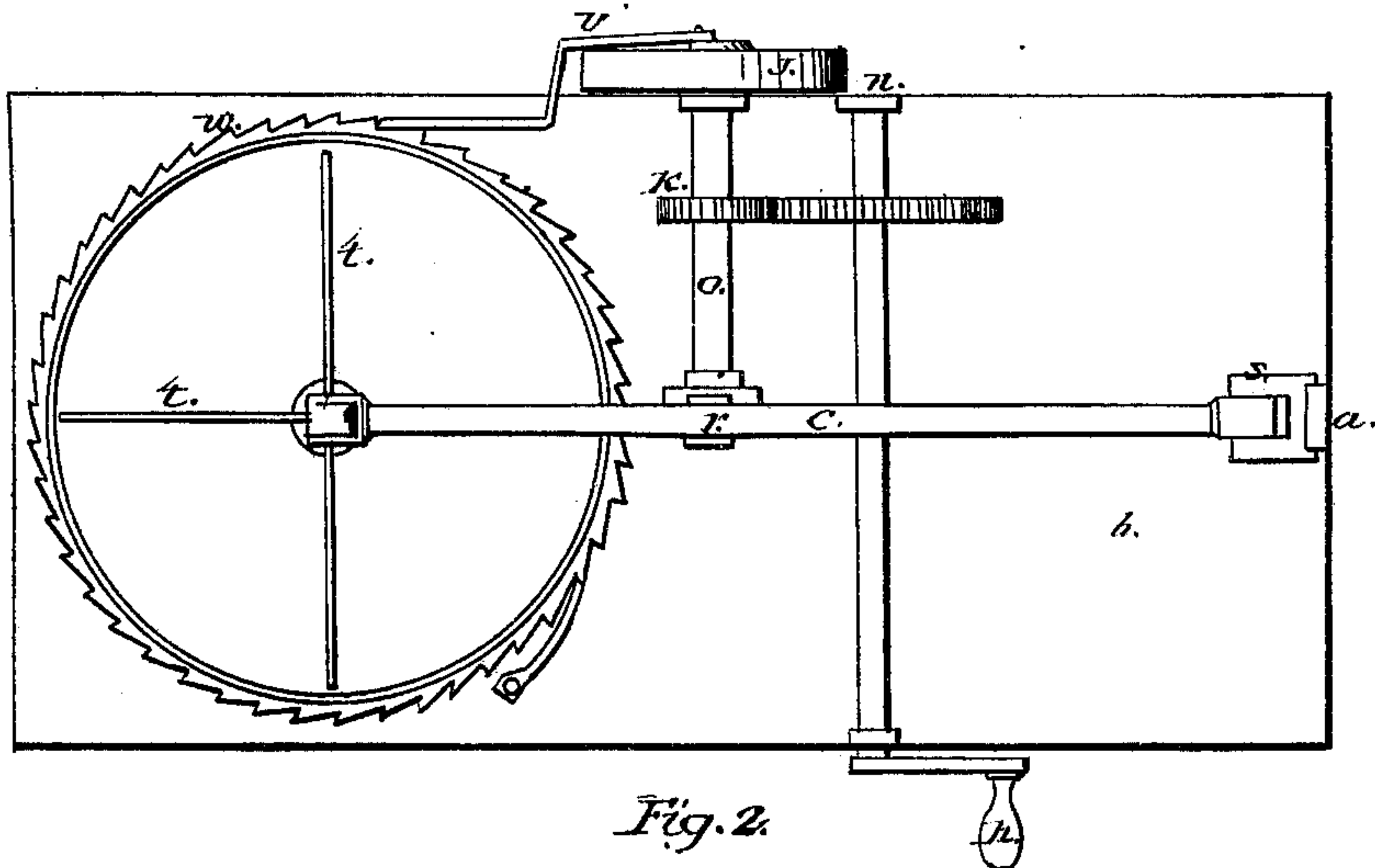


Fig. 2.

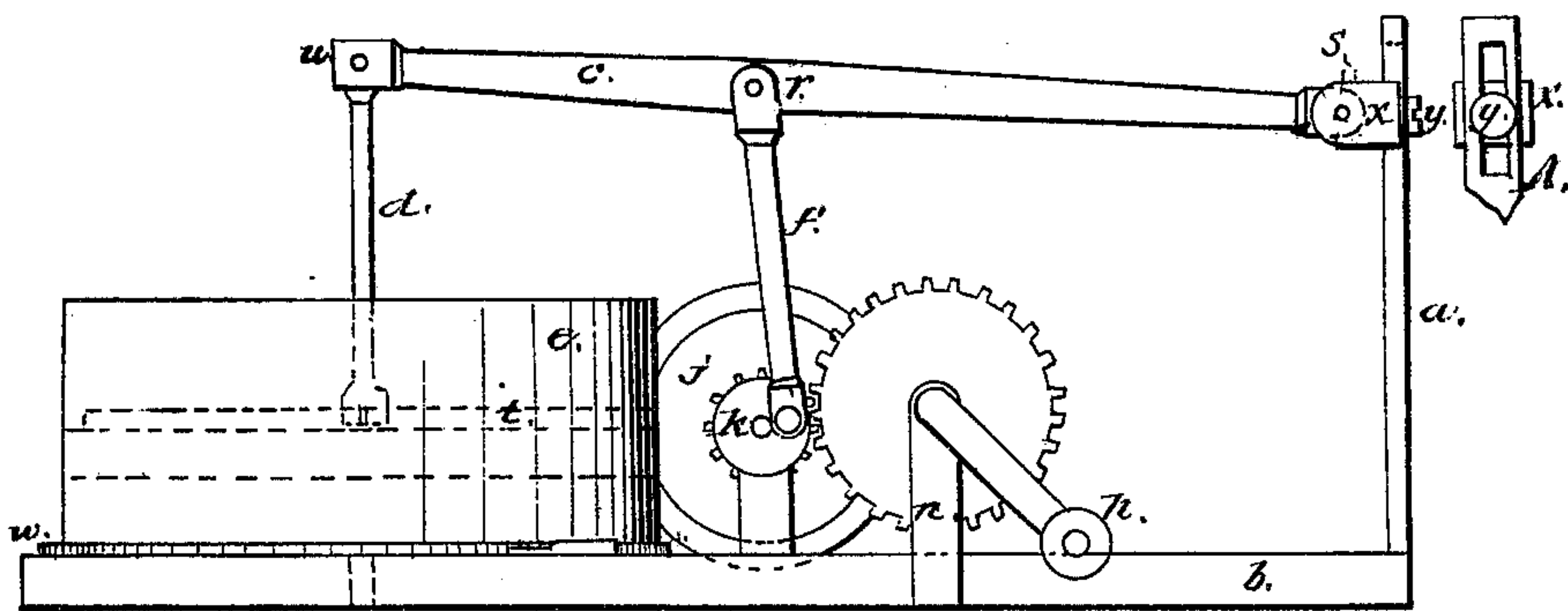


Fig. 1.

Witnesses:

Henry C. Houston

Wm. Franklin

Inventor:

M. E. Russell
per W. H. Buffum

United States Patent Office.

M. E. RUSSELL, OF CHINA, MAINE.

Letters Patent No. 91,273, dated June 15, 1869.

IMPROVED MEAT-CHOPPER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, M. E. RUSSELL, of China, in the county of Kennebec, and State of Maine, have invented a new and useful Improved Meat-Chopper; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others to make and use my invention, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation.

Figure 2 is a top plan.

A shows a detail of the adjustable connection between the walking-beam and the post *a*.

The purpose of my invention is to produce a machine for chopping meat, and a particular reference to the accompanying drawings will best illustrate the same.

b shows the base or table upon which the knife-operating devices, and tub or receptacle for the meat, are placed.

c shows the walking-beam; *d*, the arm connecting it with the knives; *e* shows the tub or receptacle for the article to be chopped; *h* shows the crank by which the wheel *i* is revolved.

This wheel is set upon the shaft *m*, which is supported by the uprights *n n'*, set into the table *b*.

The wheel *i* is provided with gears, which match the smaller gear *k*, rigidly attached to the shaft *o*, which is also supported by uprights, similar to *n n'*, as illustrated in the drawings.

To the smaller gear *k*, is eccentrically attached the link *f*, which is jointed to the walking-beam *c*, at *r*.

j shows a balance-wheel attached to the shaft *o*.

The walking-beam *c* is jointed to the upright *a*, at *s*.

By the revolution of the crank *h*, motion is imparted to the gear *i*, which is communicated to the shaft *o* by the gear *k*, and a vertical motion is then imparted to the walking-beam *c* by the link *f*, and so, by means of the rod *d*, communicated to the knives *t*, which move vertically upward and downward.

The rod *d* is jointed to the beam *c* at *u*.

Attached to the outer side of the wheel *j*, is the arm *v*, placed eccentrically thereon, so that the revolution

of the said wheel *j*, moves the said arm backward and forward.

Attached to the bottom of the tub or receptacle *e*, is the circular-toothed rack *w*, into which the end of the arm *v* works, as illustrated in fig. 2, and by each revolution of the wheel *j*, it slips over a tooth of the rack *w*.

The receptacle *e* is placed upon a pivot fixed in the centre of the bottom thereof, and turning in a hole made for its reception in the table *b*. Thus, by the revolution of the wheel *j*, the receptacle *e* is caused to slowly revolve, until every part of the inside of the bottom thereof has been presented to the knives.

The length of the stroke of the beam *c* is regulated by the adjustable attachment thereof to *a*, shown at A, where the head *x* is attached to the upright *a*, by means of the set-screw *y*.

I do not claim the revolving receptacle *e*; neither do I claim the vertically-moving knives; neither do I claim a meat-chopper which has the vertically-moving knives and the rotating tub or receptacle *e*.

The rods or links *d* and *f* are so attached to the beam *c*, that they can be detached by removing a pin, as, for instance, when the knives need cleaning, and the receptacle *e* can be lifted from its place on the bed *b*, when desired.

I do not claim the combination of a walking-beam, pitman, crank-shaft, pawl, rack, and rotary bed, as shown in L. S. Starrett's patent, No. 47,875, May 23, 1865. Neither do I claim the combination of a plate, pendant-rods, knives, two rods and a guide-rod, as shown in said patent. My invention is different in combination and arrangement from this; but

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

The arrangement of crank *h*, shaft *m*, gear *i*, gear *k*, shaft *o*, eccentrically-attached link *f*, adjustable beam *c*, rod *d*, and knives *t*, substantially as herein described.

M. E. RUSSELL.

Witnesses:

J. L. STODDARD,
E. EMERSON.