G. S. OBERDORFF.

Meat-Mincing Machine.

No. 221,250. Patented Nov. 4, 1879.

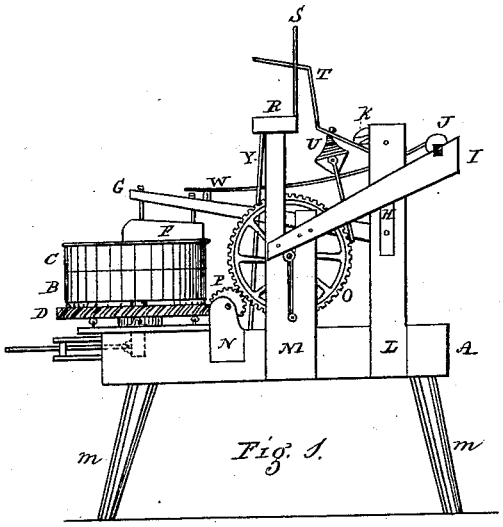

Fig. 1.

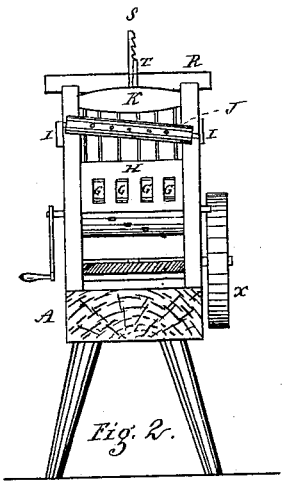

Fig. 2.

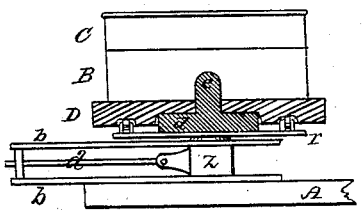

Fig. 4.

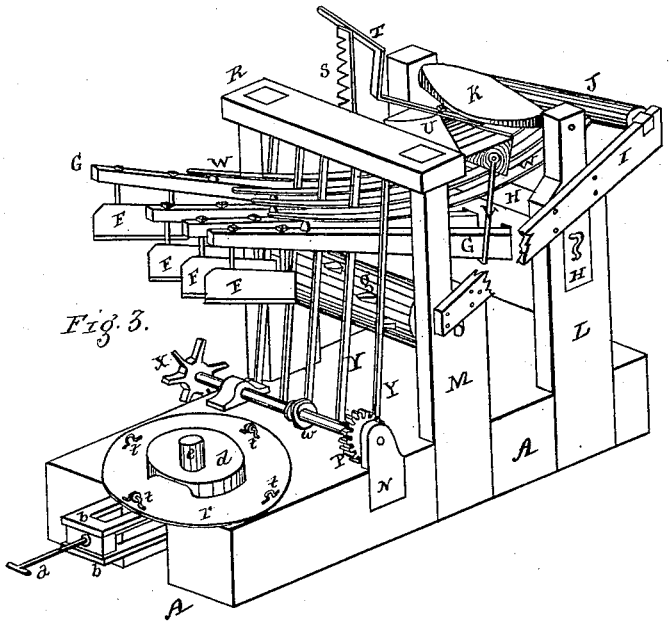

Fig. 3.

WITNESSES:

Walter B. Burg

J. R. Wallace

INVENTOR

George S. Oberdorff

UNITED STATES PATENT OFFICE.

GEORGE S. OBERDORFF, OF LOWER WINDSOR TOWNSHIP, (LONG LEVEL P. O.,) YORK COUNTY, PENNSYLVANIA.

IMPROVEMENT IN MEAT-MINCING MACHINES.

Specification forming part of Letters Patent No. **221,250**, dated November 4, 1879; application filed February 12, 1879.

To all whom it may concern:

Be it known that I, GEORGE S. OBERDORFF, of Lower Windsor township, (Long Level P. O.,) York county, in the State of Pennsylvania, have invented certain Improvements in Machines for Mincing Meat, of which the following is a specification.

This improvement relates to a class of machines for mincing meat in which the chopping-knives are on long handles raised by lifters and actuated by springs and cogged or screw gear provided with a revolving block rotating under the choppers.

The invention consists in the construction, combination, and arrangement of certain devices, hereinafter described, for withdrawing the block or tub to empty or replenish the same, and of certain devices for regulating the spring-pressure applied to the cutter-handles, substantially as hereinafter particularly set forth and claimed.

The accompanying drawings and letters of reference marked thereon and a brief explanation will enable those skilled in the art to make and use the same, in which—

Figure 1 is a side elevation; Fig. 2, a rear elevation. Fig. 3 is a perspective diagram to more fully illustrate the new features from those that are common. Fig. 4 is a sectional view of the sliding arrangement for drawing out the block.

The general features are common—such as the bed A, mounted on legs *m*, revolving block B C, with oblique cogs D for screw-gear *w*, the cogged wheel O, pinion P, choppers F, long handles G, cross-block H, drum with lifters *g*, springs W, fly-wheel X. These are variously employed, and in which I make no claim.

I introduce into the front edge of the supporting-table A two plates, *b b*, one of which is longitudinally slotted, the slot being long enough to allow the block B to be drawn out from the table. The upper face of the plate having this slot is flush with the top A. A circular disk, *r*, of circumference nearly equal to that of the block or tub B, rests on said slotted plate, and is preferably provided with anti-friction rollers or slides *t*. On these rollers or slides, or, in their absence, on the upper face of disk *r* itself, the bottom of block or tub B rests. The said block is centrally poised, and revolves upon a stout rounded pin, *e*, supported on a disk or sliding head, *d*, the under side of which is of an oblong square form, *z*, and enters through the slot or slots in *b*. To this a rod or handle, *a*, is hinged for drawing out and pushing back the block the desired distance. A latch may be added to keep the block in gear when in place for chopping upon.

To raise the handles with the chopping-knives and springs, I employ an eccentric fulcrum-block, U, to the ends of which a bridle or clevis-like rod, V, is affixed, passing down the sides and across under the handles G. This rocking fulcrum-block U sets upon the springs W, across them. There is a bent lever, T, secured under a rocking cross-piece, K, and also attached to the eccentric fulcrum-block U, and bent over at top to engage in the teeth of a rack-bar, S, or set upon it, to hold the choppers up until released. This lever and rack-bar also regulate the force of pressure of the springs upon the long handles.

Fig. 3 shows the handles raised and the lever T supported on the rack-bar. In Fig. 1 the lever end is engaged in one of the teeth in the same.

The operation of this class of machines is well understood, and many are in use. Therefore

What I deem new in this class of meat mincing or chopping machines, and which I desire to claim as my invention, is—

1. The combination of the slotted device *b b*, handle *a*, disk *r*, sliding lug *z*, with its broad head *d*, and central stout pivot *e*, on which latter the chopping-block has its rotary motion, it being supported also on anti-friction guides *t*, and capable of being drawn out and pushed in by the handle *a*, the whole arranged substantially as and for the purpose specified.

2. The combination of eccentric fulcrum-block U, lever T, cross-block K, toothed rack S, and springs W, said devices being combined and arranged in such manner that they serve to regulate the pressure of the springs.

GEORGE S. OBERDORFF.

Witnesses:
WALTER B. BURG,
J. R. WALLACE.