

(No Model.) M. SIEREVELD & G. H. STALLMAN.

SAUSAGE STUFFER.

No. 343,077.

Patented June 1, 1886.

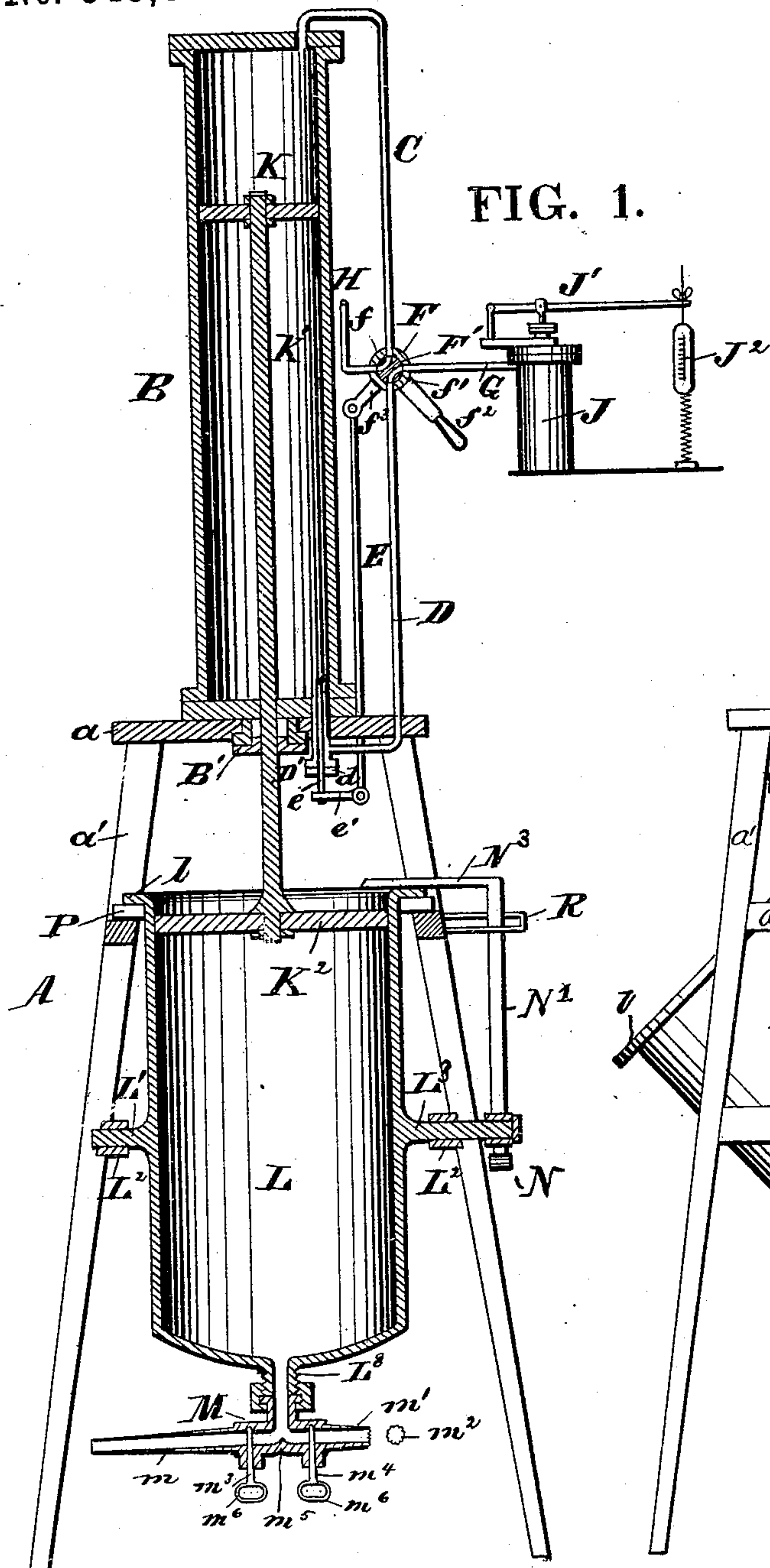
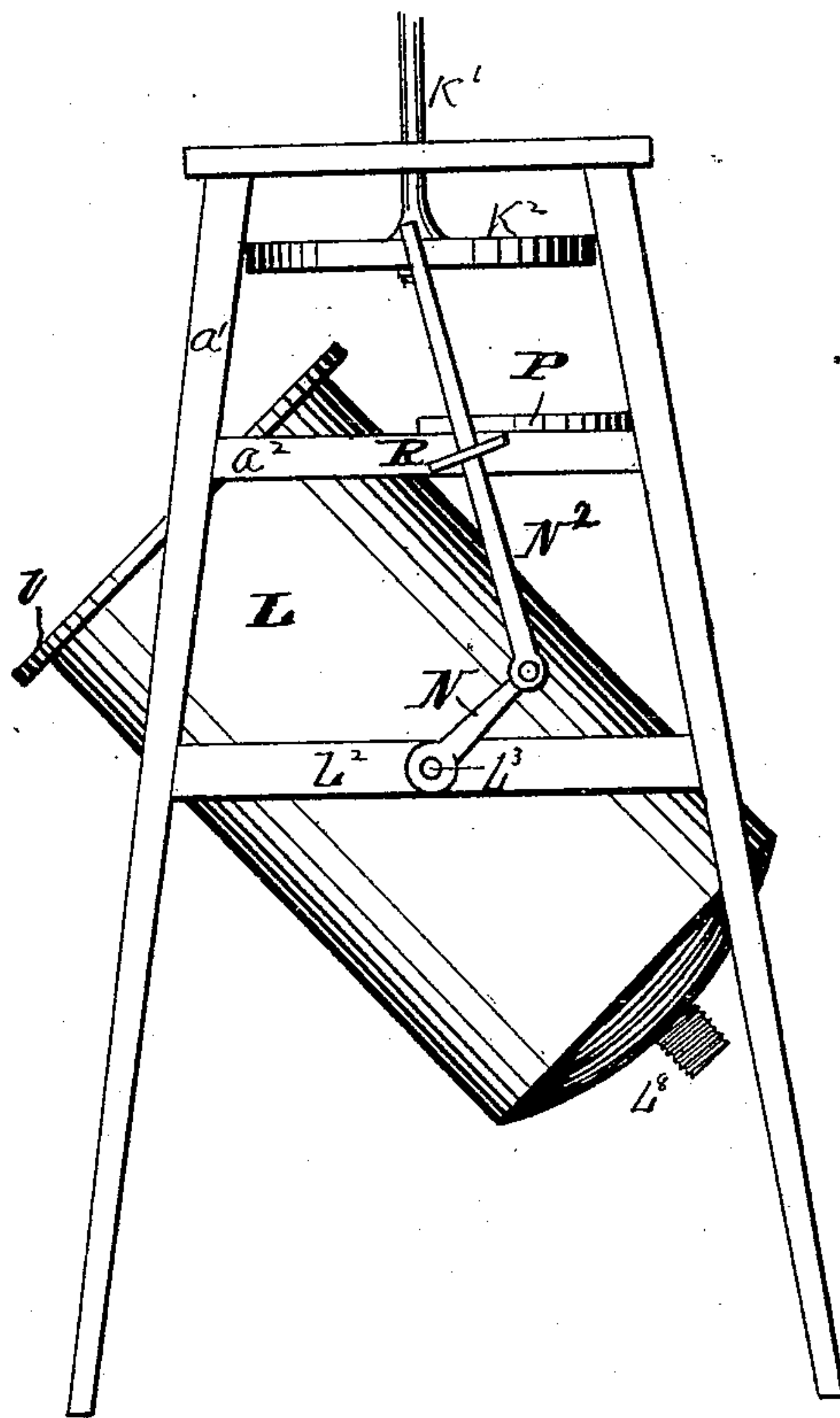


FIG. 2.



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UNITED STATES PATENT OFFICE.

MAXIMILIAN SIEREVELD AND GRANVILLE H. STALLMAN, OF CINCINNATI,
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SAUSAGE-STUFFER.

SPECIFICATION forming part of Letters Patent No. 343,077, dated June 1, 1886.

Application filed January 3, 1885. Serial No. 151,965. (No model.)

To all whom it may concern:

Be it known that we, MAXIMILIAN SIEREVELD and GRANVILLE H. STALLMAN, both of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Sausage-Stuffers, of which the following is a specification.

The invention relates to sausage-stuffing machines which are operated by steam; and it consists in the mechanisms and combinations of parts by which the machine is adapted for use with steam acting in a direct line in the cylinders, as hereinafter pointed out and claimed.

In the drawings, Figure 1 is a vertical central section of the device. Fig. 2 is a side elevation of the lower part of the same.

B indicates a steam-cylinder, of usual construction, having piston K, piston-rod K', and a piston-head, K², on the end of the rod exterior to the steam-cylinder. The piston-rod K' passes through stuffing-box B'.

Steam-pipe C communicates with one end of the steam-cylinder, and steam-pipe E with the other end, these pipes leading from a common valve-chamber, F, in which a valve, F', moves, so as to supply either pipe from the supply-pipe G. The valve F' may be moved by the hand-lever f' f².

J is a steam-chamber, having safety-valve J' and indicator J².

A lever, f³, extends from the valve F', and a rod, E, is pivoted to said lever. This rod E has an inturned arm, e', which projects toward the steam-cylinder and engages a rod, e, which passes through stuffing-box D' d into the steam-cylinder B.

Cylinder B is supported on frame A a a' a², which frame has cross-bars L². A cylinder, L, having one end open, is supported on trunnions L' and L³ on bearings on these cross-bars. The piston-head K² fits the interior of this cylinder L. One of the trunnions, as L³, has an arm, N, firmly attached thereto, and this arm N has a pitman, N², extending upward, and an inturned arm, N³, on said pitman, said arm extending above and into the line of movement of piston-head K².

Cylinder L has a hollow stem, L³, at its otherwise closed bottom. A nozzle-piece, M,

having nozzle-openings in each direction, as at m m', is attached to stem L³, and the nozzles are controlled by valves m³ m⁴, which have handles m⁶. The nozzles may be corrugated, as shown by the section m². Between the nozzles there is a ridge, m⁵.

The cylinder L may rock on its trunnions. When turned into line with the cylinder B, the flange l on said cylinder rests on ledge or support P. The piston-head K² is then in line with cylinder L. Now, supposing said cylinder L to be full of meat to be made into sausages, and the sausage-casing attached to nozzles m m', (the gates m³ m⁴ being open,) steam may be admitted above the piston K. This will drive down the piston K² and force the sausage-meat out through the nozzles into the casings, the ridge m⁵ serving to deflect it in both directions. When the piston-head K strikes rod e, it will cause a reversal of valve F', and therefore a reverse movement of the piston, as usual in steam-cylinders. As piston-head K² rises out of the cylinder L, it encounters the projection N³, and by means of the train of connections from this projection, arm, or stop to the cylinder L, it causes said cylinder to rock on its trunnions into the position shown in Fig. 2.

As it is necessary to supply several sets of sausage casings for one stroke of the piston, the movement of piston may be stopped at any time by means of lever f².

We claim—

1. The combination of a steam-cylinder having usual piston and piston-rod, a meat-cylinder hung on trunnions to rock into or out of line with said steam-cylinder, a piston-head on the piston-rod which fits said meat-cylinder, an arm in the line of movement of said piston-head, and connections from said arm to the meat-cylinder, by which the same is rocked on its trunnions.

2. The combination, with the steam cylinder having piston-rod and valves, as usual, of a trunnioned meat-cylinder in line with the steam-cylinder, an arm on one of the trunnions, a rod connected with said arm, a projection from said rod extending over the mouth of the cylinder, and a guide on the frame through which said rod passes.

3. The combination, with the steam-cylinder having piston and rod, as usual, and a piston-head outside the steam-cylinder, and the meat-cylinder trunnioned so as to swing into
5 or out of line with the same, an arm in the line of movement of the piston, and mechanism connected therewith for rocking the cylinder, and a delivery-nozzle attached to said meat-cylinder, of a valve-reversing mechanism in the line of movement of one of the piston-heads, whereby the movement of the piston in the meat-cylinder is reversed as this piston-head reaches the end of the meat-cylinder, as set forth.
10 4. The combination of a sausage-cylinder hung in bearings, arm N, rod N², having pro-

jection N³, piston K², and supporting-frame and stationary collar P, substantially as and for the purposes specified.

5. The sausage-cylinder provided with outlet L³, guiding-ridge m⁵, and nozzles M M, substantially as and for the purposes specified.

6. The sausage-cylinder provided with outlet L³, guiding-ridge m⁵, and nozzles M M, and gates m³ m⁴, substantially as and for the purposes specified.
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Witnesses:

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