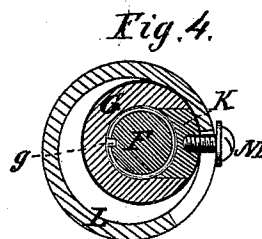
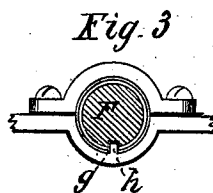
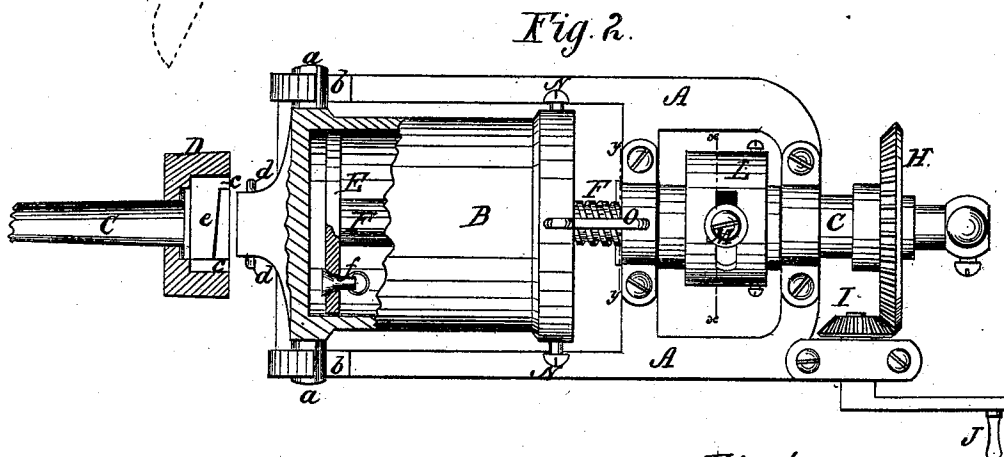
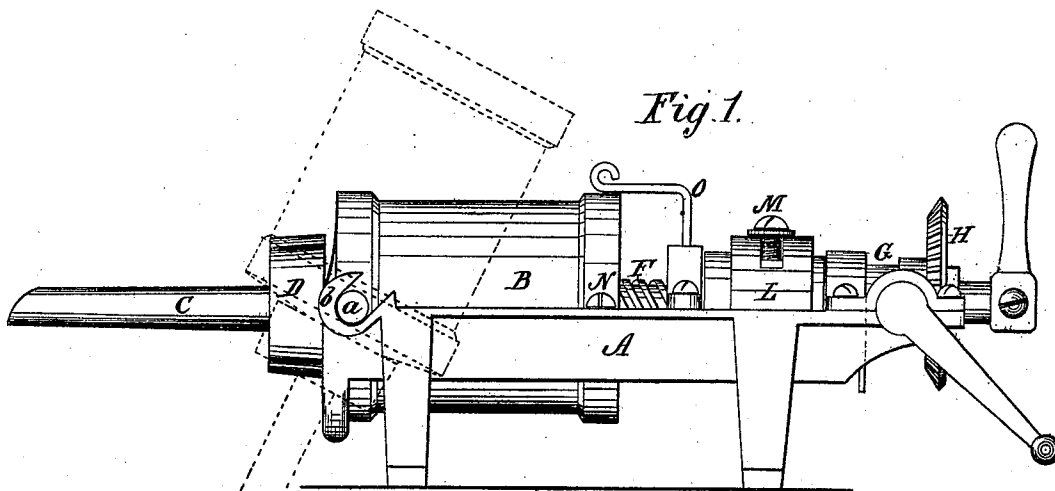


H. P. RANKIN.
SAUSAGE-MACHINE.

No. 171,631.

Patented Dec. 28, 1875.



WITNESSES:
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UNITED STATES PATENT OFFICE.

HUGH P. RANKIN, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN SAUSAGE-MACHINES.

Specification forming part of Letters Patent No. **171,631**, dated December 23, 1875; application filed June 12, 1875.

To all whom it may concern:

Be it known that I, HUGH P. RANKIN, of the city and county of Allegheny, and State of Pennsylvania, have invented a new and Improved Sausage-Stuffer; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation; Fig. 2, a plan view, partly in section; Fig. 3, a detail transverse section through line *y y*; Fig. 4, a transverse section through line *x x*.

This invention relates to certain improvements in sausage-stuffers; and it consists in a barrel or cylinder pivoted upon trunnions on a frame-work, and provided with an adjustable nozzle. In said barrel moves a piston, which is rigidly attached to a screw-threaded rod, which said rod is actuated longitudinally in the barrel by means of a bevel-gear, which operates through a revolving sleeve and an adjustable screw-threaded segment. The latter, by engaging the threads of the piston-rod, converts the rotary motion of the sleeve into a longitudinal rectilinear motion of the piston, and a stud upon the frame-work engages a longitudinal groove of the piston-rod to keep the latter from turning.

In the drawing, A represents the frame-work upon which the stuffer is constructed, and B is the barrel, which constitutes the body of the stuffer, and in which the sausage is contained. Said barrel is provided with trunnions *a a*, which are journaled in open bearings *b* of the frame-work, so that the stuffer may be either disposed in a vertical position to facilitate the filling of the same, or placed horizontally during the stuffing operation without taking it from the frame. C is a detachable nozzle, which is held to the barrel by a fastening, D. Said fastening is provided with cams *ee* and slots *cc*, which latter receive studs *d d* of the barrel, and the former serve to tighten the connection and hold the parts together when turned. E is the piston, which is rigidly attached to the screw-threaded rod F. Said piston is provided with a valve, *f*, which opens into the barrel, and admits the air upon the backward

movement of the piston whenever the barrel is to be refilled. G is a revolving sleeve, carrying a cog-wheel, H, which is operated by a pinion, I, and crank J. The said sleeve is made with a smooth bore upon the inside, but has a recess, in which is contained a screw-threaded segment, K, which said segment may be made either to engage or be out of contact with the threads of the piston-rod by means of the eccentric collar L and screw M. When said collar is turned in one direction the segment K is brought into engagement with the piston-rod, and a rotation of the crank imparts motion through the sleeve to the piston-rod, to force the piston into the barrel and drive out the sausage through the nozzle, the said piston-rod being prevented from turning by a groove, *g*, which moves over a projection, *h*, in one of the bearings.

When the said eccentric collar is turned in the opposite direction, the screw-threaded segment is withdrawn from the piston-rod, and the latter is free to be drawn back with the piston previous to filling the barrel with a new charge of sausage.

N are supporting-screws or stop projections upon the barrel, which, with its trunnions, support the same in horizontal position upon the frame, and O is an adjustable arm, which is turned across the edge of the barrel to hold the same down during the operation of stuffing.

Having thus described my invention, what I claim as new is—

1. The combination, in a sausage-stuffer, with a screw-threaded piston-rod, of a revolving sleeve and an adjustable connection, for gearing together or disengaging the same, as and for the purpose set forth.

2. The combination of the screw-threaded piston-rod, having a groove, *g*, the projection *h*, the revolving sleeve G, the threaded segment K, the eccentric collar L, and the gear-wheels, substantially as described, and for the purpose set forth.

HUGH P. RANKIN.

Witnesses:

WM. H. STERRILL,
WM. ROWBOTTEM.