(No Model.)

R. W. SEIDEMAN.

SAUSAGE FILLING MACHINE.

No. 557,032. Patented Mar. 24, 1896.

Fig. 1,

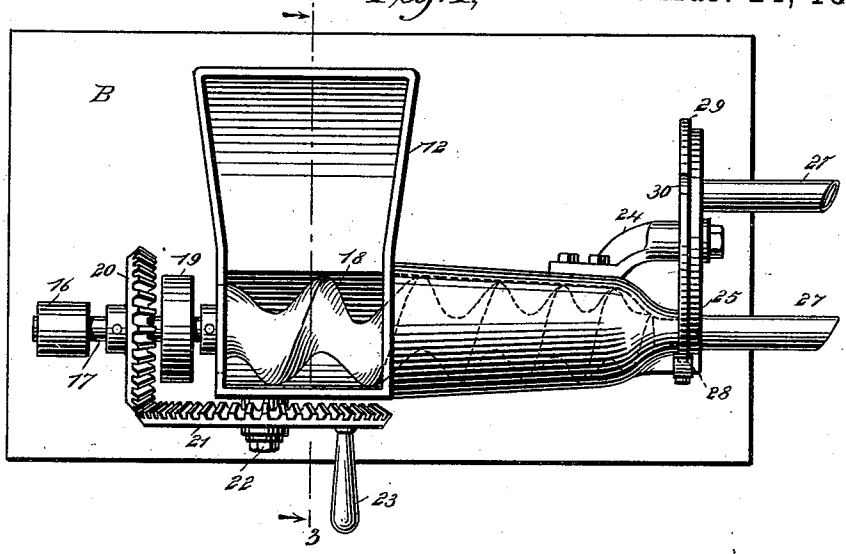


Fig. 2,

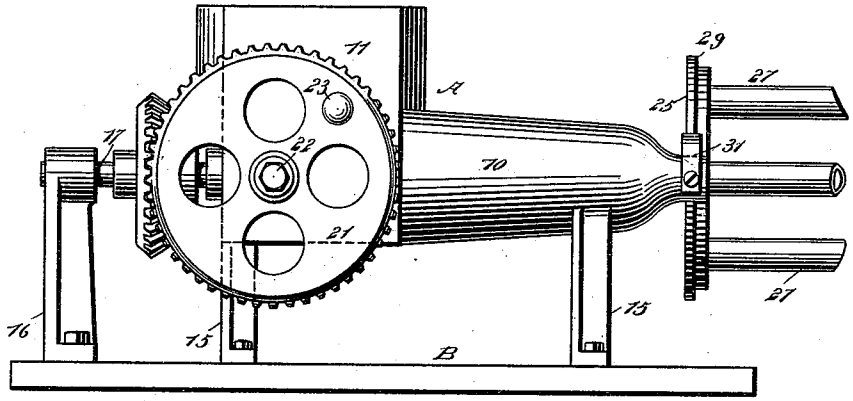


Fig. 3,

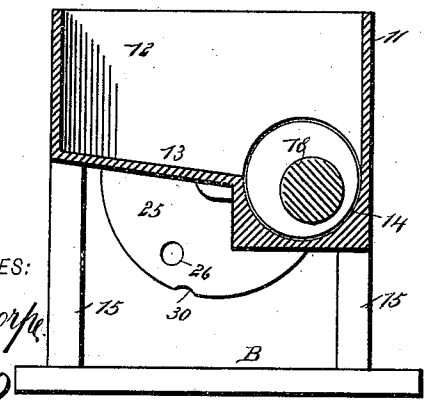
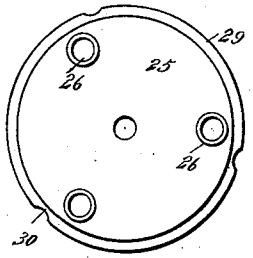


Fig. 4.



WITNESSES:

Edward Thorpe.

J. Fidelis Acker

INVENTOR

R. W. Seideman

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

RICHARD WILLIAM SEIDEMAN, OF MARYSVILLE, MONTANA.

SAUSAGE-FILLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 557,032, dated March 24, 1896.

Application filed July 2, 1895. Serial No. 554,734. (No model.)

To all whom it may concern:

Be it known that I, RICHARD WILLIAM SEIDEMAN, of Marysville, in the county of Lewis and Clarke and State of Montana, have invented a new and Improved Sausage-Filling Machine, of which the following is a full, clear, and exact description.

My invention relates to an improvement in sausage-filling machines; and the object of this invention is to construct a machine which will be self-feeding and may be operated by hand or by other power, and furthermore to so construct the machine that air will not be forced into the sausage-casings when being filled with meat, and whereby also the casings may be expeditiously and conveniently placed upon tubular supports, the said supports being attached to a wheel, thus providing for a number of casings to be placed in position upon the supports while one of the casings is being filled, enabling the process of filling sausage-casings to be conducted in a continuous manner and with the services of only two persons when the machine is operated by hand, one person furnishing the power while the other person attends to placing the casings in position and to the removal of the same when filled.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the machine. Fig. 2 is a front side elevation thereof. Fig. 3 is a vertical section taken on the line 3 3 of Fig. 1, and Fig. 4 is an outer face view of the wheel carrying the casing-supports.

The body A of the machine consists of a tubular section 10, which is given a slight downward inclination, and a hopper or receiving section 11 being at what may be termed the "upper" or "head" end of the body, and this hopper is continued out beyond the rear side of the tubular portion of the body, forming a rear extension 12, and the said extension is provided with a bottom 13, (shown in Fig. 3,) which inclines downward to meet a semicircular trough 14 in the bottom of the forward hopper-section, constituting virtually a continuation of the chamber or tubular section. The tubular section is tapered more or less, being decidedly reduced at its rear or outlet end, and the entire body is supported by means of legs 15 or their equivalents, secured to a proper base B. This base at its lower end has a pedestal 16 formed thereon, in which one end of a shaft 17 is journaled, and this shaft is made to pass into the body A, where it is either attached to or formed integral with a worm 18, the latter extending the length of the body, including the trough or channeled portion of the hopper-section, as shown in Fig. 1, and conforms to the taper of the chamber of the body. A pulley 19 is located on the shaft 17, in order that the machine may be driven by a steam or other motor, but when driven by hand a beveled pinion 20 is secured on this shaft, which meshes with the teeth of the beveled wheel 21, the latter being preferably mounted to turn on a spud-shaft 22, secured to the forward face of the hopper-section of the body, the beveled gear 21 being provided with an attached handle 23 by means of which it is turned.

At one side, preferably the rear side, of the tubular section of the body, at or near its delivery end, a bracket 24 is securely bolted, and this bracket is rounded off at its rear extremity to form a journal for a wheel 25. The wheel is therefore eccentric to the outlet of the body A of the machine, and it is provided with any desired number of outlets or openings 26, located usually adjacent to the periphery, and each opening is surrounded by an outwardly and horizontally extending tube 27. These tubes may be more or less tapered, and their delivery ends are beveled to facilitate the introduction of sausage-casings over the tubes, since the tubes serve as supports for said casings. The openings in the wheel carrying the casing-supports are so located that they may be brought one after the other as the wheel is revolved opposite and close to the outlet end of the body, and the aforesaid outlet end is provided with a bracket or a transverse recess 28 at its rear or delivery end, adapted to receive a flange 29 formed on the periphery of the casing-wheel, serving as a guide for the said wheel, and near each of the supports 27 on

the wheel a recess 30 is made in the flange of the wheel to receive a pawl located on the body of the machine, whereby the wheel is held stationary during the process of filling the casings.

In the operation of filling the chopped meat is placed in the hopper and will feed itself to the worm, and as the worm is revolved the meat will be fed to the delivery end of the body to the exclusion of the air, and will then be forced out from the body through a registering opening 26 in the casing-wheel and into the casing-support, which has been previously provided with a casing, and should any of the supports be without casings while the casing on one support is being filled the other supports may be supplied with casings. Thus it will be observed that the operation of filling may be practically continuously carried on.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a sausage-filling machine, a body, means for forcing material through the body and a rotating casing-carrier arranged at the delivery end of the body, as and for the purpose specified.

2. In a sausage-machine, a tubular body, a worm mounted to turn therein, a hopper having an inclined bottom and arranged to supply material to the worm, a driving mechanism whereby the worm is revolved, and a rotating casing-carrier arranged on the delivery end of the body, as and for the purpose specified.

3. In a sausage-machine, a tubular body, a worm mounted to turn therein, a hopper having an inclined bottom and arranged to supply material to the worm, a driving mechanism whereby the worm is revolved, a rotating casing-carrier arranged on the delivery end of the body, and casing-supports surrounding openings in the casing-carrier, the said supports having tapering ends, as and for the purpose specified.

4. In a sausage-filling machine, a tubular body, a worm mounted to revolve therein, a hopper for supplying the said worm with material, a driving mechanism for the worm, a wheel located eccentrically to the delivery end of the body being provided with openings adapted to register with the said ends, and casing-holders surrounding the said openings, as and for the purpose set forth.

5. In a sausage-filling machine, a tubular body, a worm mounted to revolve therein, a hopper for supplying the said worm with material, a driving mechanism for the worm, a wheel located eccentrically to the delivery end of the body, being provided with openings adapted to register with the said ends, casing-holders surrounding the said openings, and a locking device for the said casing-carrying wheel, substantially as shown and described.

6. In a sausage-filling machine, the combination, with the delivery portion of the machine, of a rotatable casing-carrier provided with casing-supports grouped thereon and arranged to register with the outlet of the machine as the wheel is revolved, substantially as described.

RICHARD WILLIAM SEIDEMAN.

Witnesses:
L. A. MATTHEWS,
J. T. PROUGER.