

(No Model.)

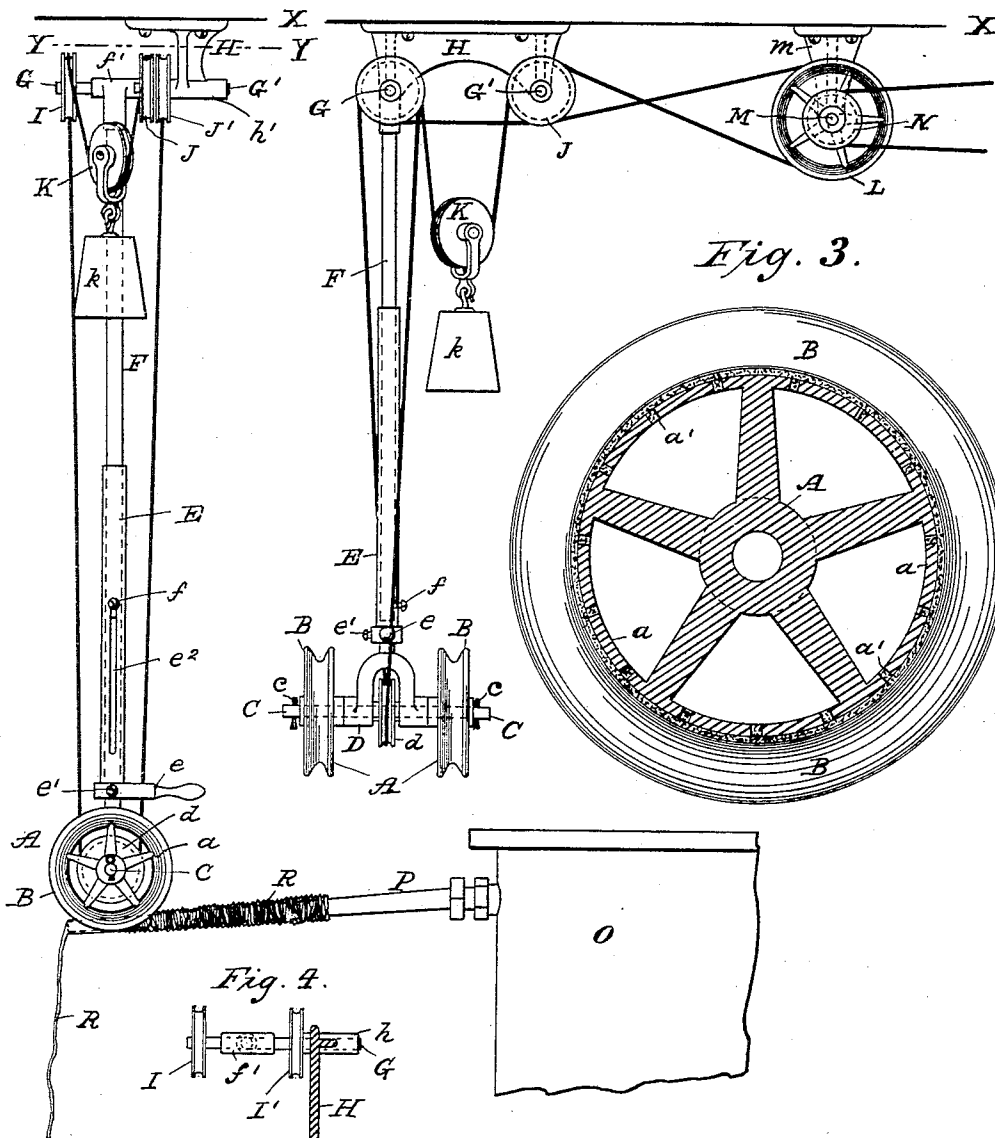
W. F. SCHÖNLAND.
SAUSAGE FILLING APPARATUS.

No. 577,586.

Patented Feb. 23, 1897.

Fig. 1.

Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM F. SCHÖNLAND, OF MANCHESTER, NEW HAMPSHIRE.

SAUSAGE-FILLING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 577,586, dated February 23, 1897.

Application filed December 12, 1896. Serial No. 615,461. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. SCHÖNLAND, a citizen of the United States, residing at Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Sausage-Filling Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is adapted to economize in the manufacture of sausages by facilitating the operation of applying the casings to the filling-tubes of sausage-stuffing machines.

Heretofore it has been necessary, as far as I am aware, with one exception, to apply the casings to the filling-tubes of a sausage-stuffing machine by hand, which operation consumes much time, the exception mentioned being brought about by adapting the filling-tubes of a machine for removal when applying a casing and providing a separate machine, to which said tubes are attached for the purpose of applying said casings by power.

The object of the present invention is to provide means for applying the casings to the filling-tubes of a sausage-stuffing machine without the necessary waste of time and labor involved in detaching said tubes from a machine and again attaching the same after having applied a casing whenever a new casing is required.

The invention will be fully set forth in the following specification and claims and clearly illustrated in the drawings accompanying and forming a part of the same, of which—

Figure 1 is a side elevation showing a portion of a sausage-stuffing machine with its filling-tubes, a sausage-casing partly applied thereon, and my improved device in the act of applying said casing. Fig. 2 is an end elevation of my improved device. Fig. 3 is an enlarged detail sectional view of one of my improved wheels by which a casing is crowded upon the filling-tubes. Fig. 4 represents a detail sectional view of a hanger carrying arbors and pulleys, by which the wheels shown in Fig. 3 are driven.

Similar reference-letters denote corresponding parts in all the views.

A is a wheel having a grooved periphery *a*,

which may be provided with perforations *a'* for the purpose of securing in any convenient manner a yielding covering or case B, which may be formed of rubber, canvas, or any other suitable material which would adhere sufficiently to the casings to carry them onto the tubes. As many of these wheels A may be used as there are filling-tubes in a sausage-stuffing machine, two of said tubes being usually provided. These wheels B are rigidly mounted upon a shaft C, which is carried in a yoked bearing-piece D, within which is also mounted upon said shaft a small grooved pulley *d*.

The yoked bearing D is secured to the lower end of a tube E, provided at or near its lower end with a handle *e*, secured thereto by a screw *e'* or other convenient means, and within this tube E is a rod F, which extends from the upper end of said tube and is connected at *f'* with an arbor G, said rod being adapted for limited vertical movement within said tube E by means of a stop pin or screw *f*, the latter passing through a slot *e²*, formed for the purpose in said tube.

A bracket or hanger H may be secured to the wall or ceiling of a room, as shown at X, and provided with bearings *h* *h'*, the former carrying an arbor G and the latter an arbor G'. Upon the arbor G are mounted the grooved pulleys I I', and upon the arbor G' are the pulleys J J', a belt S being passed over these pulleys, together with the lower pulley *d*, and a pulley L, mounted on a counter-shaft M, supported in a hanger *m* and adapted to carry between the pulleys I J a pulley K, weighted, as at *k*, for taking up the slack of said belt when my improved device is elevated, as when not required for use, as in Fig. 2.

Power may be applied to the counter-shaft M by means of a pulley N, driven by a belt T, as shown in Fig. 2.

By means of my improved device one or more casings R may be applied to the filling-tubes P of a sausage-stuffing machine O very perfectly and rapidly and with considerable saving of time.

Having described my improvements, what I claim is—

1. As a means for applying sausage-casings to the filling-tubes of sausage-stuffing ma-

chines, the combination with said stuffing-tubes of one or more rolls having a grooved periphery of flexible material said rolls being mounted on a horizontal shaft carrying a belt-pulley, the said shaft and belt-pulley, a yoked bearing for said shaft, a vertical rod having one end attached to said yoked bearing and the other end loosely mounted upon a shaft carrying belt-pulleys, the said belt-pulleys, a counter-shaft and pulleys, and a power-belt connecting the latter pulleys with the belt-pulley on the shaft carrying said feeding-pulleys for the sausage-casings, substantially for the purpose set forth.

2. The combination with the filling-tubes of a sausage-stuffing machine, of one or more rolls having a grooved periphery of flexible

material said rolls being mounted on a horizontal shaft carrying a belt-pulley, the said shaft and belt-pulley, a yoked bearing for said shaft, a vertically-adjustable rod connecting said yoked bearing with a shaft upon which it is loosely mounted, belt-pulleys loosely mounted on the latter shaft, a counter-shaft and pulleys, and a power-belt connecting the pulleys of shafts G G' with the belt-pulley on shaft C, substantially for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. SCHÖNLAND.

Witnesses:

J. B. THURSTON,
EMILE H. TARDIVEL.