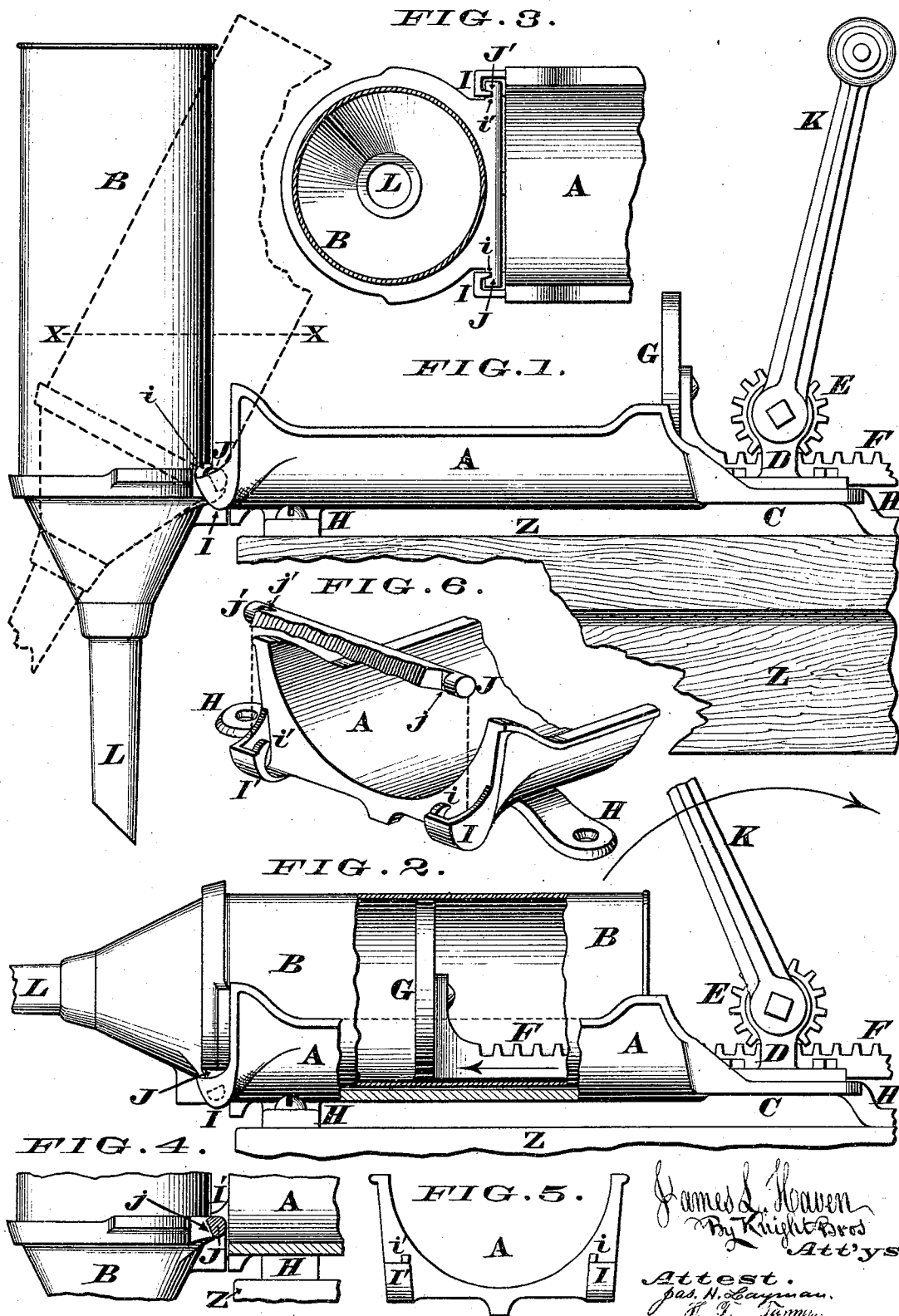


J. L. HAVEN.
Sausage-Stuffers.

No. 148,211.

Patented March 3, 1874.



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UNITED STATES PATENT OFFICE.

JAMES L. HAVEN, OF CINCINNATI, OHIO.

IMPROVEMENT IN SAUSAGE-STUFFERS.

Specification forming part of Letters Patent No. **148,211**, dated March 3, 1874; application filed January 31, 1874.

To all whom it may concern:

Be it known that I, JAMES L. HAVEN, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Sausage-Stuffer, of which the following is a specification:

My invention has for its object a simple, convenient, and effective device for stuffing cut meats into guts for sausages.

Figure 1 is a side elevation of my device in condition for charging the hopper or funnel, lacking a portion of the rack. Fig. 2 is a similar elevation of the same in condition for stuffing, portions thereof being broken away. Fig. 3 is a section at the line *x x*. Fig. 4 is a partially-sectionized elevation, showing the connection of the funnel and the bed. Fig. 5 is a rear-end view of the bed. Fig. 6 is a perspective view of the rear end of the bed, the trunnions being shown elevated above their appropriate sockets and the funnel removed.

My bed or base is preferably an iron casting, having the represented trough-like form A, to receive and firmly hold a cylindrical funnel or hopper, B. A front projection, C, from the trough A, affords attachment for journal-bearings D of pinion E, and, in conjunction with said bearings, supports and guides a rack, F, which terminates in a plunger, G, adapted to fit and slide within said funnel when the latter is in the horizontal position. Perforated lugs or feet H, projecting from the bed A C, enables its attachment to any bench or table, such as Z. The rear end of the bed A C has undercut steps or sockets I I' for trunnions J J', which project from the extreme lower side of the funnel, where its cylindrical and conical portions unite. This location of the trunnions enables the rear feet H to be as near the rear end of the bed as may be desired, so as to firmly support this end of the apparatus without liability of collision between the appended hopper and the supporting-table. On the other hand, when the trunnions are coincident with an axial plane of the funnel, the rear end of the bed must project at least the semi-diameter of the funnel beyond the table, in which position it is much

more insecure, being liable to overturn the table by the preponderating weight on one side thereof.

The rack and pinion are operated by customary crank or winch K.

The sockets I I' and trunnions J J' are preferably formed as at Figs. 3, 4, 5, and 6, so as to keep the trunnions in place without any extraneous fastening—that is to say, with lips *i i'* on the sockets and flats *j j'* on the trunnions.

The operation of this simple and effective apparatus is sufficiently obvious. The funnel is charged by depositing cut meat into the open end of the funnel while in the vertical position shown in Fig. 1. The funnel, having been thus charged, is then laid down, so as to occupy the trough-formed bed A, as in Fig. 2. A "skin" having been attached to the nozzle L, the plunger is driven into the funnel by means of the cranks, and the contents of the funnel discharged in the usual way.

It will be seen that the parts of my stuffer are so arranged that the piston and rack coact with the undercut sockets I I' to hold the funnel securely down during the entire stuffing operation, and that said undercut sockets are, in like manner, effective in retaining the funnel in place while being charged, the removal or insertion of the funnel being possible only in the oblique position shown.

Disclaiming novelty in a stuffer-hopper supported in trunnions below the axial plane,

I claim as new and of my invention—

The combination of the trough-like bed A C and funnel B, whose trunnions J are placed tangential to the joining-angle of its cylindrical and conical portions, said trunnions having flattened portions *j j'*, engaging under lips or projections *i i'* from the steps J J', as and for the purpose designated.

In testimony of which invention I hereunto set my hand.

JAMES L. HAVEN.

Attest:

THOMAS M. ROBB,
JOHN H. HEITMANN.