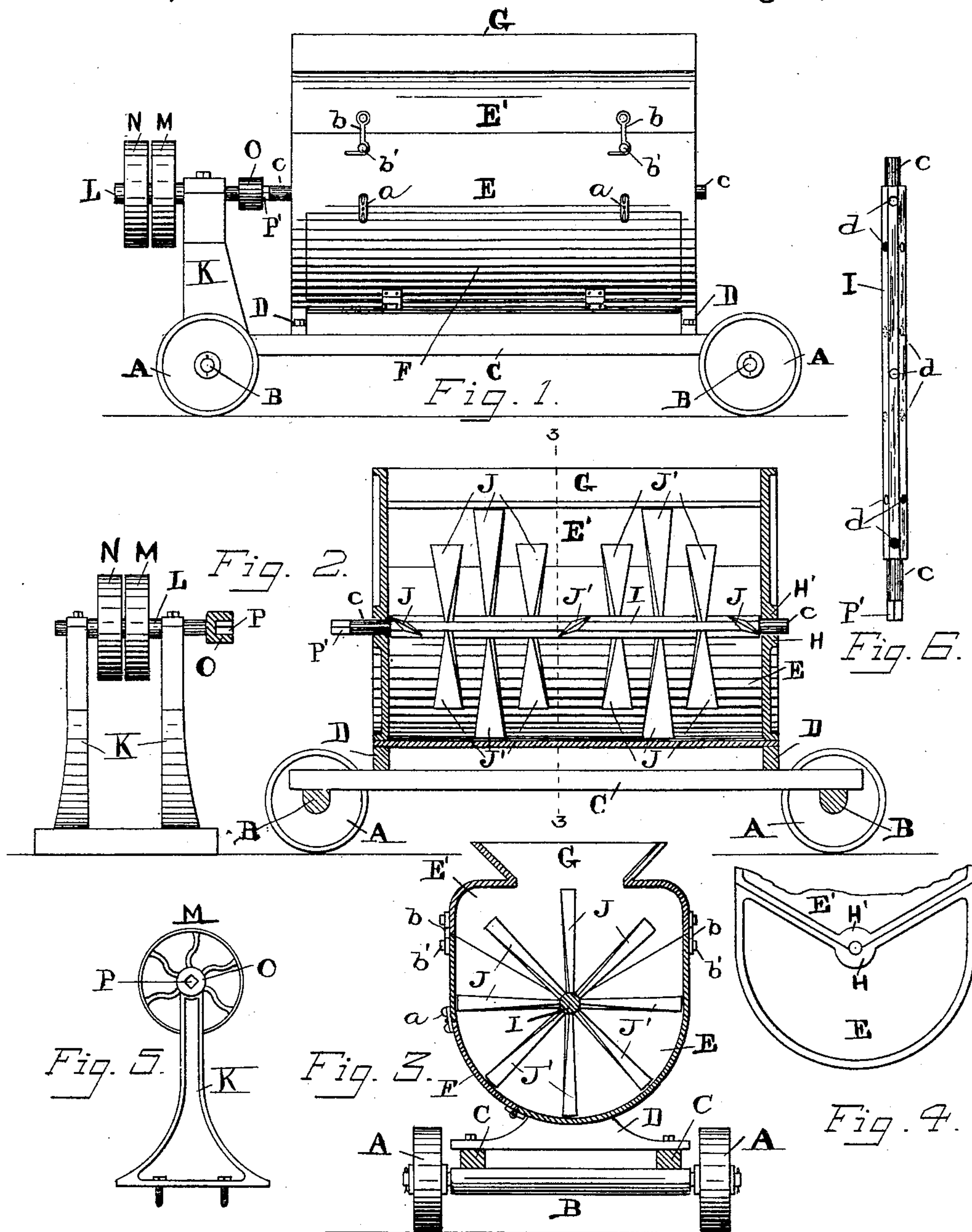


(No Model.)

J. H. SCHAEFER.
MEAT MIXING APPARATUS.

No. 480,674.

Patented Aug. 9, 1892.



Witnesses:—

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UNITED STATES PATENT OFFICE.

JOHN H. SCHAEFER, OF BALTIMORE, MARYLAND, ASSIGNOR TO JOHN H. SCHAEFER, JR., AND GEORGE N. SCHAEFER, OF SAME PLACE.

MEAT-MIXING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 480,674, dated August 9, 1892.

Application filed March 5, 1892. Serial No. 423,938. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. SCHAEFER, a citizen of the United States, residing at Baltimore city, in the State of Maryland, have invented certain new and useful Improvements in Meat-Mixing Apparatus, of which the following is a specification.

This invention relates to a meat-mixing machine mounted on a truck for use in slaughter-houses and similar places.

The invention consists in the novel features of construction and arrangements, and combinations of parts, hereinafter described and claimed.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 shows a side elevation of the machine and truck; Fig. 2, a longitudinal section of the machine, and shows a modification in the arrangement of the driving-pulleys and socketed head; Fig. 3, a cross-section, the top portion being broken off; Fig. 4, an end view of the box in which the meat is mixed; Fig. 5, an end view of the driving mechanism; Fig. 6, a detail side view of the shaft of the meat-mixer.

The letter A designates the wheels of the truck, B the axles, and C longitudinal rails supported on said axles and suitably joined thereto. A pair of saddle-blocks D rest cross-wise of the truck upon the said rails C and are securely fastened thereto. A box E, having a rounded bottom, is mounted on the saddle-blocks D, and said bottom and side has a door F, hinged at its lower edge and held up in closed position by means of turn-buttons *a* and a separable cover or top part E', having a hopper-mouth G at the top. The line of division between the cover and box inclines from each side down to a bearing on each end or head of the box, said bearing thus being in two halves H H', one on the cover and the other on the box. The cover is held on the box by means of hooks *b* on one part and pins *b'* on the other. Within the box is a longitudinal shaft I, whose journaled ends *c* fit in the bearings H H' on the box-heads. The shaft I has a number of holes or sockets *d* bored in it in two spiral series extending in opposite directions around it and carries a number of stirrer-blades whose shanks fit in said holes. The

ends of these blades are broad and work close to the side walls and bottom of the box. The two series of blades J J' extend like a screw, one series J in one direction and the other series J' in the opposite direction and intersecting the first series. The broad ends of the series of blades J are set at an angle or pitch and the other series of blades J' on the reverse angle or pitch, as seen in Fig. 3. A standard K may be fixed on the truck, as in Fig. 1, and supports a revoluble shaft L, which carries a fast and a loose pulley M N on the outer side of the standard, and on the opposite or inner side of the standard said shaft carries a head O, having a square socket P in its face. One of the journals *c* of the shaft I has a projecting squared end P', which fits removably in said socket.

The operation is as follows: The parts being assembled, as shown, the box E is filled through the hopper-mouth G' with the cut meat and fat to be mixed and the truck placed adjacent to some source of power, the square end P' being in the socket P. A belt is fitted over the fast pulley M and revolves the shaft I and stirrer-blades J J'. The two sets of blades by their screw-like arrangement and reverse angular position or pitch tend to work the meat in opposite directions, and thereby cause a thorough admixture of it. When this has been brought about, the belt is shifted to the loose pulley N and the stirrer is removed by lifting off the cover E' of the box, raising one end of the shaft I out of the half-bearings H, and then drawing it longitudinally to disengage the square end from the head P. The truck is disconnected from the driving-power, and the machine, with the meat in the box, may be transported to any other part of the house desired to be used. This mixer mounted on a truck will greatly expedite the handling of sausage-meat and like matter in slaughter-houses and similar places. An advantage of my construction is that the box and stirrer may be easily kept clean. By simply removing the stirrer in the manner hereinbefore described ready access may be had to all parts of the interior of the box, and the stirrer may be cleaned by itself without difficulty. The water used in cleaning the box and the mixed meat may be removed through the door F.

It is evident that the arrangement here shown for connecting the truck with driving-power may be varied and other changes may be made in the construction of parts.

5 In Fig. 2 the pulleys and revoluble head are shown stationarily located independent of the truck.

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

In meat-mixing apparatus, the combination of a truck, a box or casing mounted on said truck, a shaft in open bearings on the ends of said casing and having shoulders to prevent

endwise movement in said bearings, and a 15 squared end projecting from the casing, a movable lid for the casing, comprising coverings for the shaft-bearings and driving mechanism having a rotary head which is provided with a squared socket in one side face to re- 20 movably receive the squared end of the shaft, substantially as and for the purpose described.

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

JOHN H. SCHAEFER.

Witnesses:

JNO. T. MADDOX,

F. PARKER DAVIS.