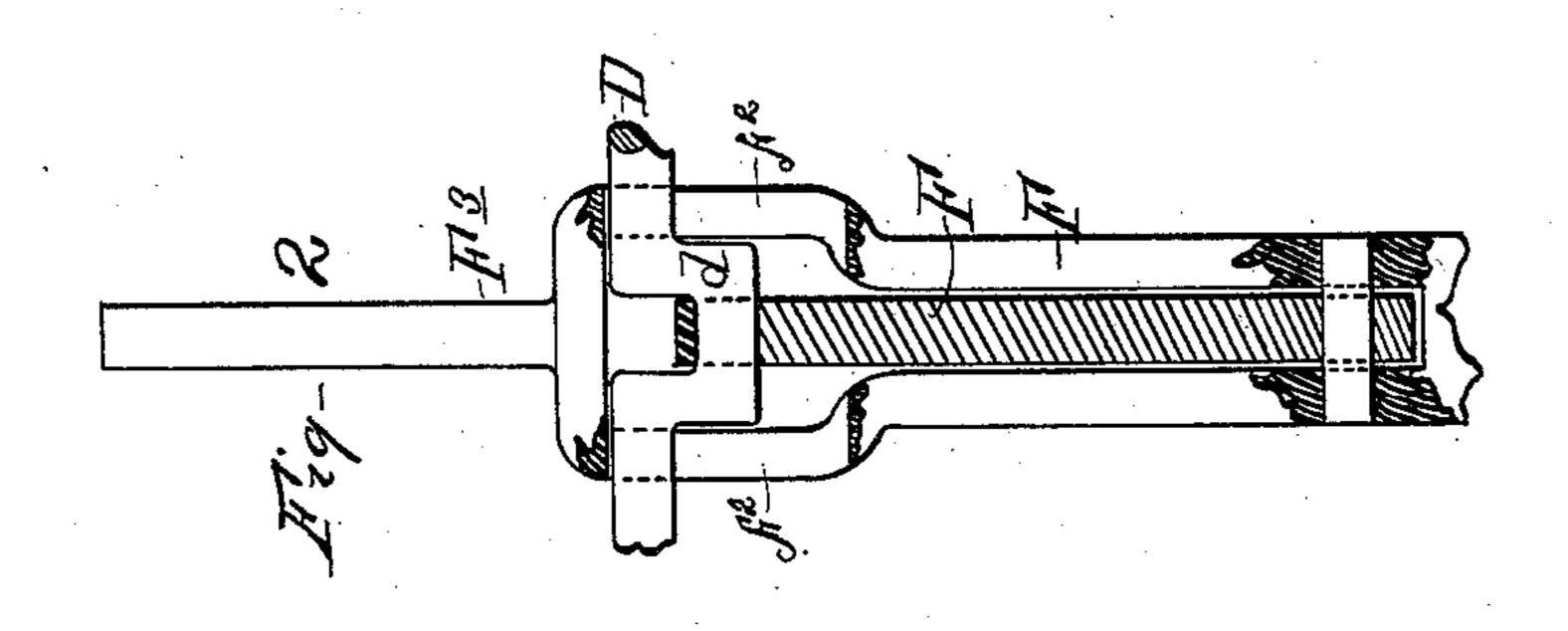
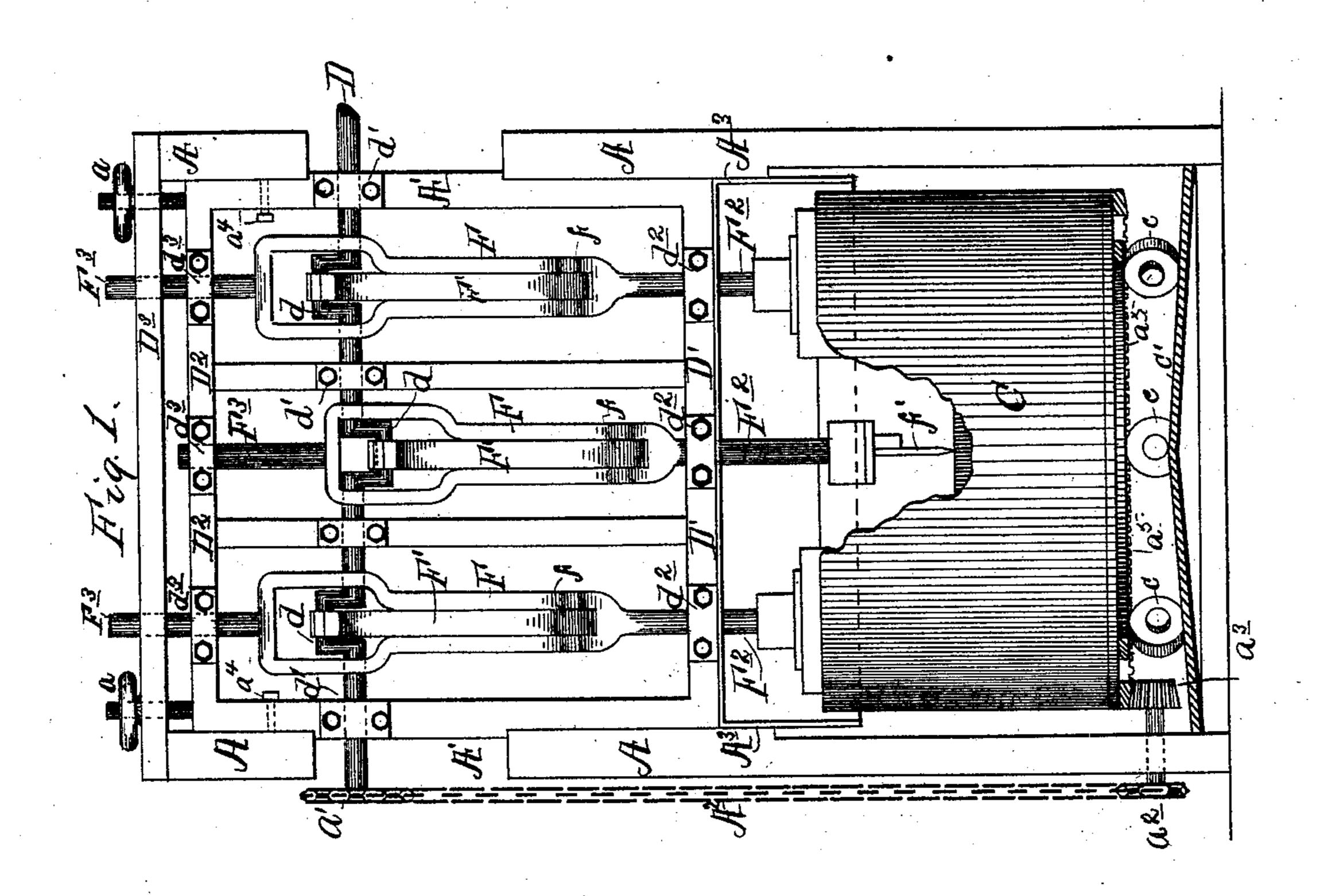
(No Model.)

W. W. RENKIN.
MEAT CHOPPER.

No. 420,583.

Patented Feb. 4, 1890.





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United States Patent Office.

WILLIAM W. RENKIN, OF ALLEGHENY, PENNSYLVANIA.

MEAT-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 420,583, dated February 4, 1890.

Application filed June 14, 1889. Serial No. 314,317. (No model.)

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To all whom it may concern:

Be it known that I, WILLIAM W. RENKIN, of No. 84 Irwin avenue, Allegheny, Pennsylvania, have invented a new and useful Im-5 provement in Meat-Choppers, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

Similar letters of reference indicate corre-

10 sponding parts.

My invention relates to machines for chop-

ping meat by machinery.

In the accompanying drawings, Figure 1 is a side elevation of a meat-cutting machine 15 constructed in accordance with my invention; and Fig. 2 is a detail view, partly in section, of one of the plungers and a part of the crankshaft.

A A is frame-work.

A' A' is a sliding frame, being moved up and down by the screws a a. This sliding | centrics to operate the knives. frame A' has fixed to it the crank-shaft D at d' d' and also cross-beams D' and D², to which are fixed the guide-caps d^2 and d^3 .

 A^2 is a chain belt on the wheels a' and a^2 to operate the bevel-wheel a^8 , and thus move the tank or chopping-pan C by means of the

 $\cos a^5$.

c c c are wheels running on the track c'. D³ is a cross-beam at the top of the framework.

d d d are cranks on the shaft D. These cranks operate the knives f', which are fixed to the vertical shaft P². Each plunger is 35 forked at an intermediate point of its length between the aligned cylindrical parts or ends F² F³ thereof, and the fork extends upward till near the top, when it enlarges, so as to allow a free movement of the crank d within 40 the same. This enlarged fork is provided with a slot f^2 in the sides thereof. This slot is made for the purpose of a guide to the upward and downward movement of the plun- | forked part thereof, substantially as described. ger P². Inside this fork is the pitman P', se-45 cured to the crank d and pivoted to the plunger P^2 at f_*

At the top of the fork F is a small shaft passing up through the beam D⁸. This serves as a guide to the movement of the stems or

50 shafts P³.

The several stems or shafts P2 work verti- I tically adjustable frame supported in said

cally, operating the knives in the pan C, which is continually revolving on the wheels c c.

Thus constructed my machine will be easily put together or taken apart for repairs. This 55 is done by simply removing the boxing d', d^2 , and d^3 . Then the shaft D is passed through the slots f^2 of the forks F, which are then put in position.

On the pan C, I place a cap or covering A³, 60 preferably made of sheet-iron sloping backward, through which the plungers P² pass. The use of this covering is to prevent substances like oil from falling into the can when the chopping process is going on.

The screws a a are to be used in raising or lowering the knives f' to meet the changed condition of the wooden block within the pan C, made so by usage. The set-screws a^4 may be used for the same purpose.

Instead of the crank-shaft D, I can use ec-

Having thus described my invention, what I claim, and desire to secure by Letters Patent,

1. In a meat-chopping machine, the combination, with a rotary receptacle carrying a bed and the main supporting-frame, of a vertically-adjustable frame supported within the main frame and having the upper and lower 80 bars thereof provided with the verticallyaligned guides, the vertical adjusting-screws supported in the supplemental adjustable frame, the reciprocating plungers, each having the parts F² F³ thereof fitted in said aligned 85 guides and provided with the forked intermediate part F and the longitudinal slots f^2 , a crank-shaft passing through the slots f^2 in . the plungers and having its cranks operating in the forked parts of the plungers, and the 90 pitmen, each located in the forked part of one of the plungers and connected to the crankshaft and to the plunger at the base of the

2. In a meat-chopping machine, the combi- 95 nation of a main frame, a rotary receptacle carrying a bed and having a circular rack on its bottom, a driving-shaft geared to said rack for rotating the receptacle, a crank-shaft connected by an intermediate sprocket-chain 100 with said driving-shaft, a main frame, a vermain frame and having its upper and lower bars provided with vertically-aligned bearings, the vertical adjusting-screws supported in the supplemental adjustable frame, the plungers fitted in said bearings and having the slotted forked intermediate parts, and the pitmen connected to the crank-shaft and the plungers, substantially as described.

In testimony that I claim the foregoing as my invention I hereto set my hand in pres- 10 ence of two witnesses.

WILLIAM W. RENKIN.

Witnesses:

ADOLPHE H. BOCKING, WM. O. BELT.