

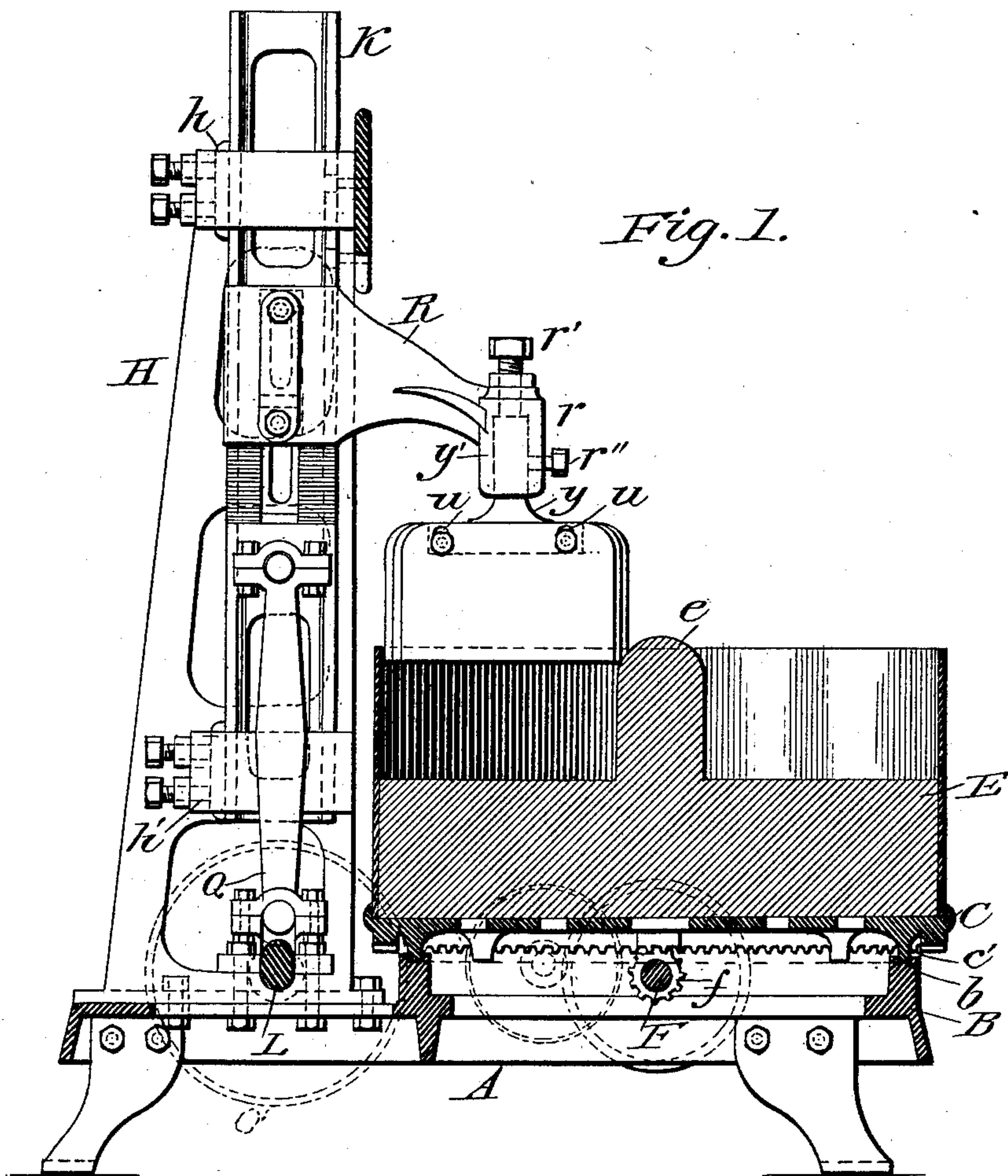
(No Model.)

2 Sheets—Sheet 1.

C. GABELMAN.
MEAT CUTTING MACHINE.

No. 359,069.

Patented Mar. 8, 1887.



Witnesses.
S. Quaintance
J. Benetrium

Inventor:
C. Gabelman,
per H. R. Rhde,
his atty.

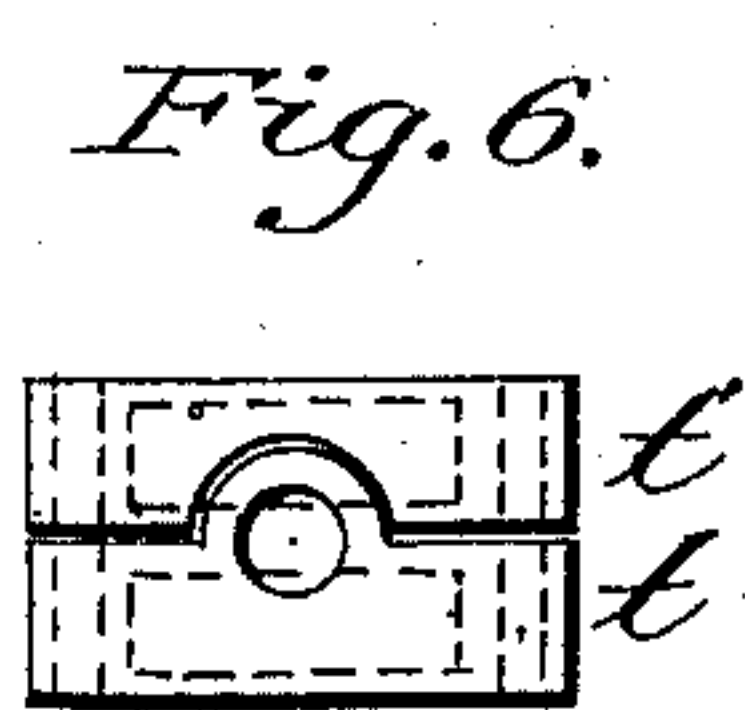
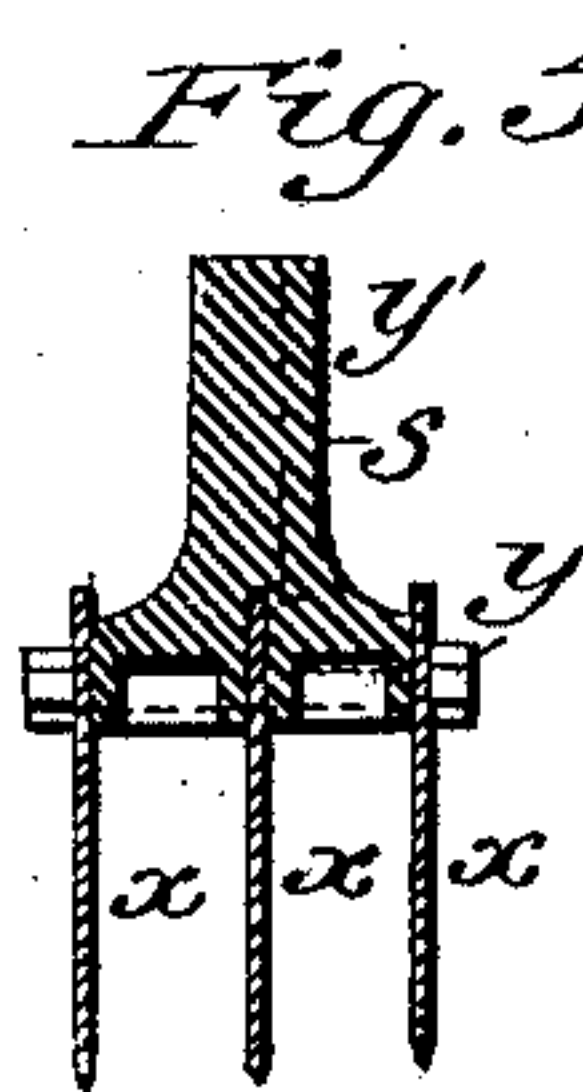
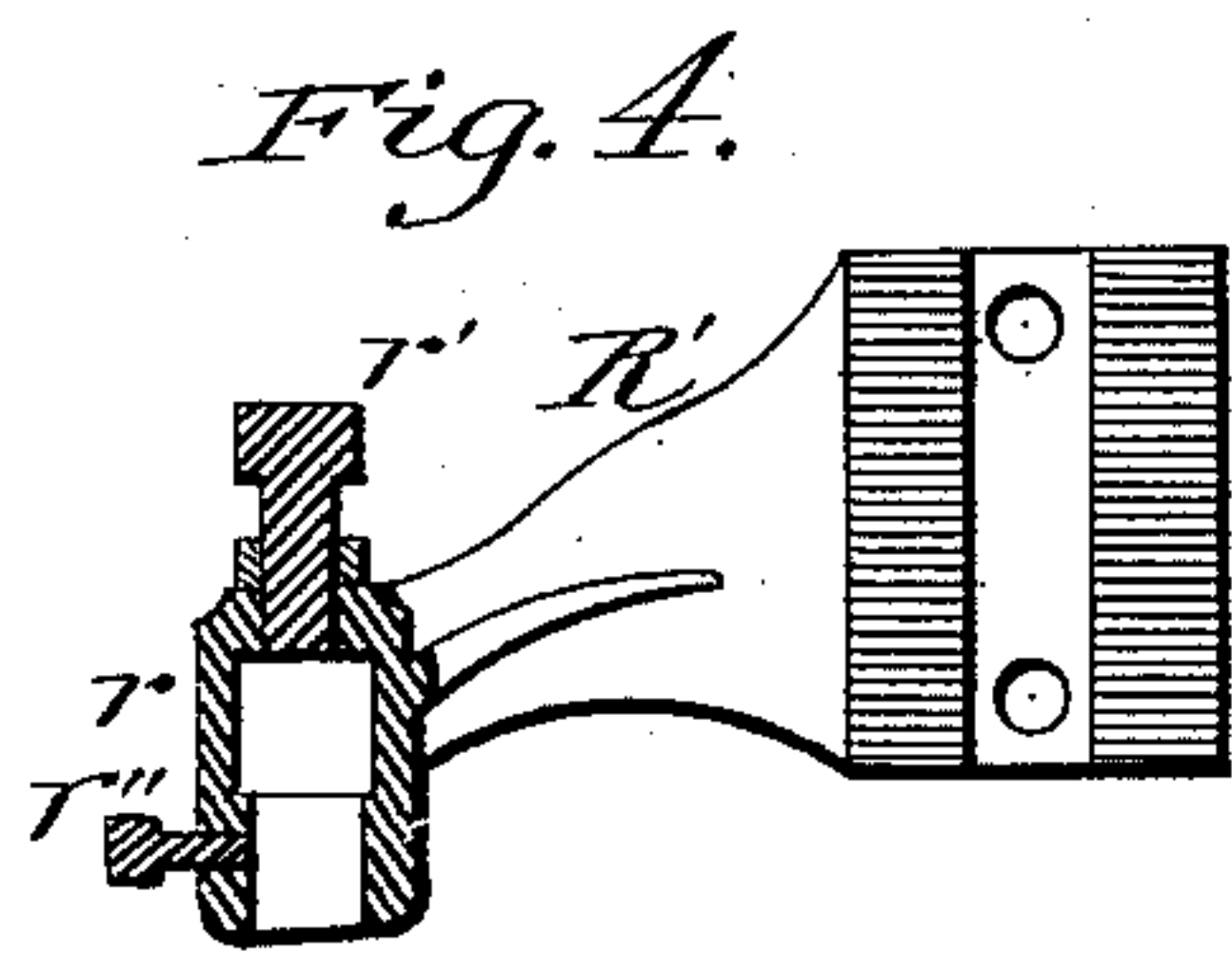
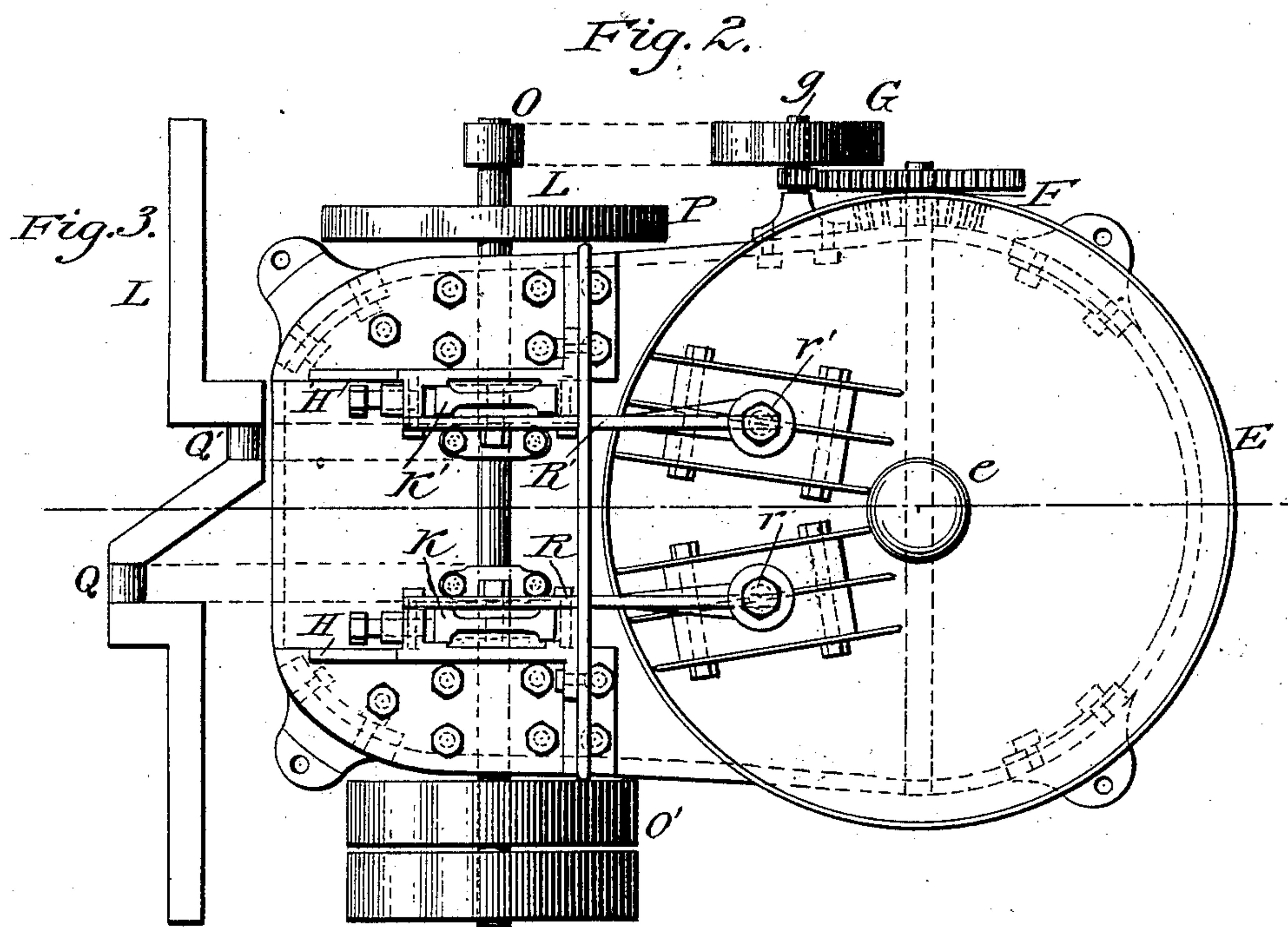
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2 Sheets—Sheet 2.

C. GABELMAN.
MEAT CUTTING MACHINE.

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Inventor.
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UNITED STATES PATENT OFFICE.

CHARLES GABELMAN, OF BURLINGTON, IOWA.

MEAT-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 359,069, dated March 8, 1887

Application filed November 23, 1886. Serial No. 219,698. (No model.)

To all whom it may concern:

Be it known that I, CHARLES GABELMAN, a citizen of the United States, residing at Burlington, in Des Moines county, Iowa, have invented a new and useful Improvement in Meat-Cutting Machines, of which the following is a specification.

My invention relates to improvements in meat-cutting machines in which a rotating chopping-block operates in conjunction with a series of knives actuated from an upright placed at the end of the chopping-block, in which a slide passes, connected by a pitman to a crank-shaft; and the object of my invention is to furnish a meat-cutter which combines simplicity with strength, and in which the rotating chopping-block shall stand separate and free from the actuating mechanism of the knives. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical cross-section of my mechanism; Fig. 2, a top view of the same; Fig. 3, a plan view of the crank-shaft; Fig. 4, a view in elevation of a knife-arm and a vertical cross-section of the box; Fig. 5, a sectional view of a set of knives adjusted in the holder, and Fig. 6 a top plan view of the holder.

Similar letters refer to similar parts throughout the several views.

In the drawings, A is the base-frame of my meat-cutter.

B is a circular rest upon frame A, and is provided with groove b.

C is the circular bottom plate of a drum, D, and is provided with a downward-projecting rim, c', so placed as to fit into and smoothly slide in groove b. The lower side of plate C is cogged in its circumference to engage with a pinion, f, on a shaft, F, which is journaled in base-frame A, underneath plate C.

G is a pulley upon spindle g, connected with base-frame A. On said spindle g is also a pinion, g', which meshes with gear-wheel F' upon shaft F, so that the moving of pulley G will rotate the plate C. Upon plate C, and within drum D, rests the chopping-block E, having center pin, e.

H and H' are uprights securely fastened to frame A, to one side of the circular bottom plate, C, as illustrated in Fig. 1 of my drawings. These uprights H and H' are flanged

on their inner sides and provided, respectively, with the top and bottom guide-plates, h and h', attached to these uprights by set-screws or in any other suitable manner, and thus forming guides.

K and K' are slides which slide up and down in the guides formed in uprights H and H', with guide-plates h and h'.

L is a crank-shaft having the pulleys O and O' and the fly-wheel P. Slide K is connected with crank-shaft L by pitman Q, and slide K' by pitman Q'. To slide K is adjustably attached the knife-arm R, and to slide K' the knife-arm R'. The adjustable attachment is formed by the slides being respectively corrugated, as shown in Fig. 1 of the drawings. The knife-arms R and R' have corresponding corrugations, and these knife-arms are further provided with longitudinal slots, through which screw-bolts pass, by means of which the knife-arms can be securely fastened to the respective slides, as illustrated in the drawings. The knife-arms R and R' extend from the uprights over the chopping-block, and each arm has on its free end, directly over the chopping-block, a box, r, a vertical cross-section of which is shown in Fig. 4 of the drawings. Box r has in its upper part the set-screw r', and on its side the smaller set-screw, r''.

Fig. 5 shows a set of knives consisting of the blades x x x and the holder y, having neck y', provided with groove s. The base of the holder y consists preferably of two pieces, t and t', as illustrated in Fig. 6, which facilitates the adjustment of the blades. These blades x x x have near their tops the slots u u u, and through these slots they are fastened by bolts to the holder y, thus admitting of adjustment to the holder. The neck y' of the holder passes in its upper end into the box r, and is adjusted therein by means of the set screw r'. The set-screw r' engages with the groove s, thus preventing the holder from slipping down. The position of the groove s in holder y determines the angle to which the knives are set relative to the arm.

Pulleys G and O are connected by belt, and a belt also connects the pulley O' with the motor-power for the machine.

The operation of my invention is as follows: The material to be cut is placed upon chopping-block E. If, now, pulley O' is set in mo-

tion, it will rotate the crank-shaft L, by means of which, through pitmen Q and Q', the slides K and K' are moved up and down, thus operating the knives upon the chopping-block.

- 5 By means of pulley O upon crank-shaft L being connected by belt with pulley G, the shaft F is revolved, whereby the chopping-block is revolved, as heretofore described. By means of the adjustment of the knife-arms on the
10 slides, and the neck of the knife-holders in the box *r*, and the blades *x x x* to the holder *y*, the knives can be adjusted to a rotating chopping-block of any reasonable depth.

What I claim as my invention, and desire
15 to secure by Letters Patent, is—

1. In a meat-cutter provided with a rotary block, the uprights H H', secured to the base-frame at one side of the rotary block, guide-plates *h h'*, slides K K', knife-arms R R', ad-
20 justably fastened to the slides, crank-shaft L,

and pitmen Q Q', for actuating said slides, the parts being combined substantially as described.

2. A meat-cutter comprising the frame A, the circular rest B thereon, provided with 25 rim C' and cogged on its lower circumference, the block E within the drum D, uprights H H', guide-plates *h h'*, knife-arms R R', provided with boxes *r*, holders *y*, blades *x*, crank-shaft L, having pulleys O O' at oppo- 30 site ends, pitmen Q Q', shaft F, having pinion *f* and gear-wheel F' thereon, and spindle *g*, provided with pinion *g'* and pulley G, the parts being combined substantially as described.

CHARLES GABELMAN.

Witnesses:

D. F. SKINNER,

O. S. BOWEN.