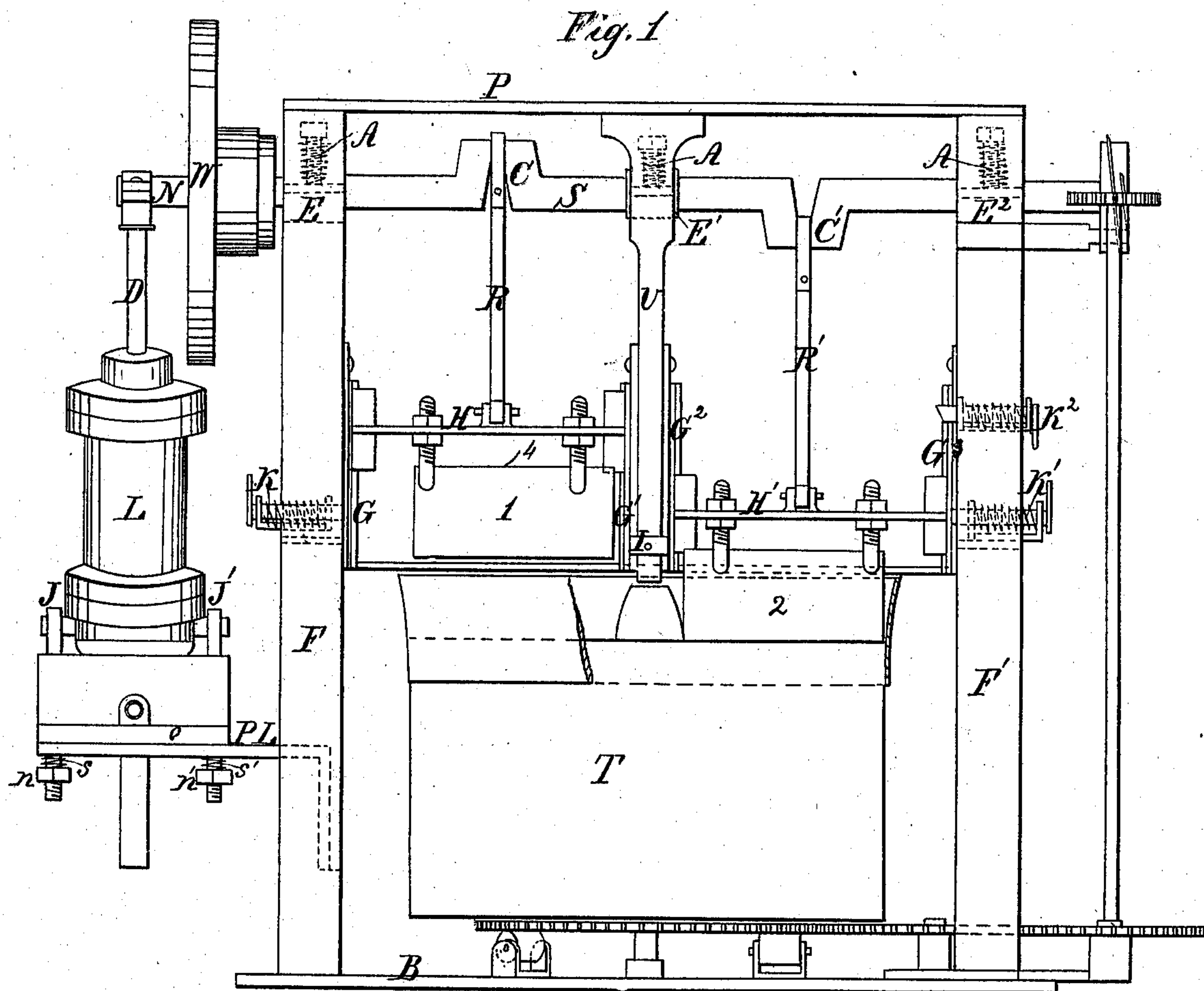


A. NITTINGER, Jr.
MEAT CUTTING MACHINE.

No. 95,038.

Patented Sept. 21, 1869.



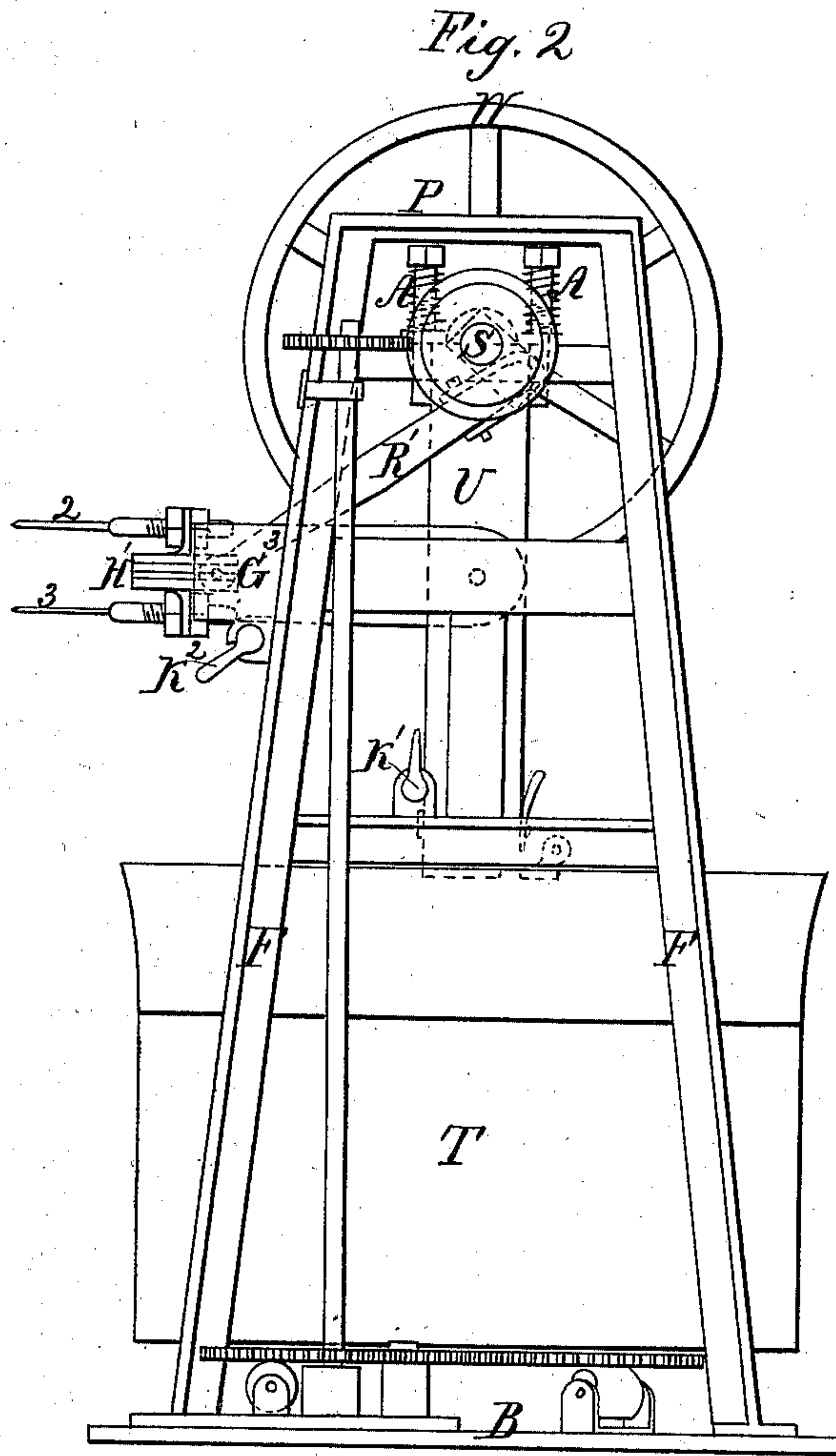
Witnesses
Isaac R. Oakford
Richard R. Laws.

Inventor
August Nittinger Jr.
J. C. Evans
Att'y.

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Richard R. Laws.

Inventor
August Nittinger Jr.
for C. & Evans
Atty.

United States Patent Office.

AUGUST NITTINGER, JR., OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 95,038, dated September 21, 1869.

IMPROVED MEAT-CUTTING MACHINE.

The Schedule referred to in these Letters Patent and making part or the same.

To all whom it may concern:

Be it known that I, AUGUST NITTINGER, Jr., of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful "Improvement in Meat-Cutting Machines;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This is an improvement on the meat-cutting machine patented by me, under date of August 11, 1863, in which a rotary table or block is combined with reciprocating knives, and the said knives so arranged on the cross-head that they can be readily sharpened, and the edges preserved.

My present improvement consists in securing on the inside of the framing triangular-shaped guides, so as to carry the cross-heads steady and straight in their up-and-down movements; also, holding the knives by a peculiar arrangement of spring-catches, so that they can be readily sharpened. The spring-catches also secure the guides in proper position when the knives are in operation.

Figure 1 is a side elevation of my improvement, with a portion of the table or block-rim removed.

Figure 2 is an end elevation of same, with the knives turned into position ready for sharpening.

To enable those skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

Secured to the bed-plate B of the machine are two frames, F and F', which are connected together at their upper ends, by means of the plate P.

Secured in the centre, and underneath the plate P, is an upright, U, which extends down within a short distance of the table or block T.

The main driving-shaft S is formed with two cranks, C and C', which work in bearings E, E¹, and E².

Bearings E and E² are secured to the interior and at the upper part of the frames F and F', and the bearing E¹ is secured to the upright U, on a line with bearings E and E².

Encircling each bolt which holds the caps of the bearings E, E¹, and E² in place, are spiral springs, A A A, the lower ends of which bear on the caps, and the upper ends come in contact with the nuts placed over the ends of the bolts, so that in case any bones should be placed on the block with the meat, the sharp edges of the knives, in striking them, will cause the shaft to raise in the bearings, and thus act as a cushion for the knives, and prevent their breaking or becoming dull.

Connected to the cranks C and C' are two rods, R and R', on the lower ends of which are pivoted cross-heads H and H', which work on and are guided in their up-and-down movements by triangular-shaped guides, G, G¹, G², and G³, which are pivoted at their upper ends to the inner sides of the frames F and F', and to the sides of the upright U.

Guides G, G¹, G², and G³ are held in place by means of spring-catches K and K' and revolving-plate L.

The knives 1, 2, 3, and 4 are attached to and adjusted on the cross-heads H and H', in the usual manner.

When it becomes necessary to sharpen the knives, the cross-heads are turned until the knives assume a horizontal position, as shown in fig. 2. In this position they are retained by means of a spring-catch, K², secured to the front of the frames F and F'.

Having thus described my invention, its construction and operation,

What I claim, and desire to secure by Letters Patent of the United States, is—

The arrangement of the upright U, triangular-shaped guides G, G¹, G², and G³, spring-catches K, K¹, and K², and plate L, substantially in the manner and for the purpose specified.

In testimony whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

AUGUST NITTINGER, JR.

Witnesses:

CHARLES H. EVANS,
ISAAC R. OAKFORD.