

No. 897,018.

PATENTED AUG. 25, 1908.

A. ROEST.

KNIFE GUARD FOR MEAT SLICING MACHINES.

APPLICATION FILED JUNE 19, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

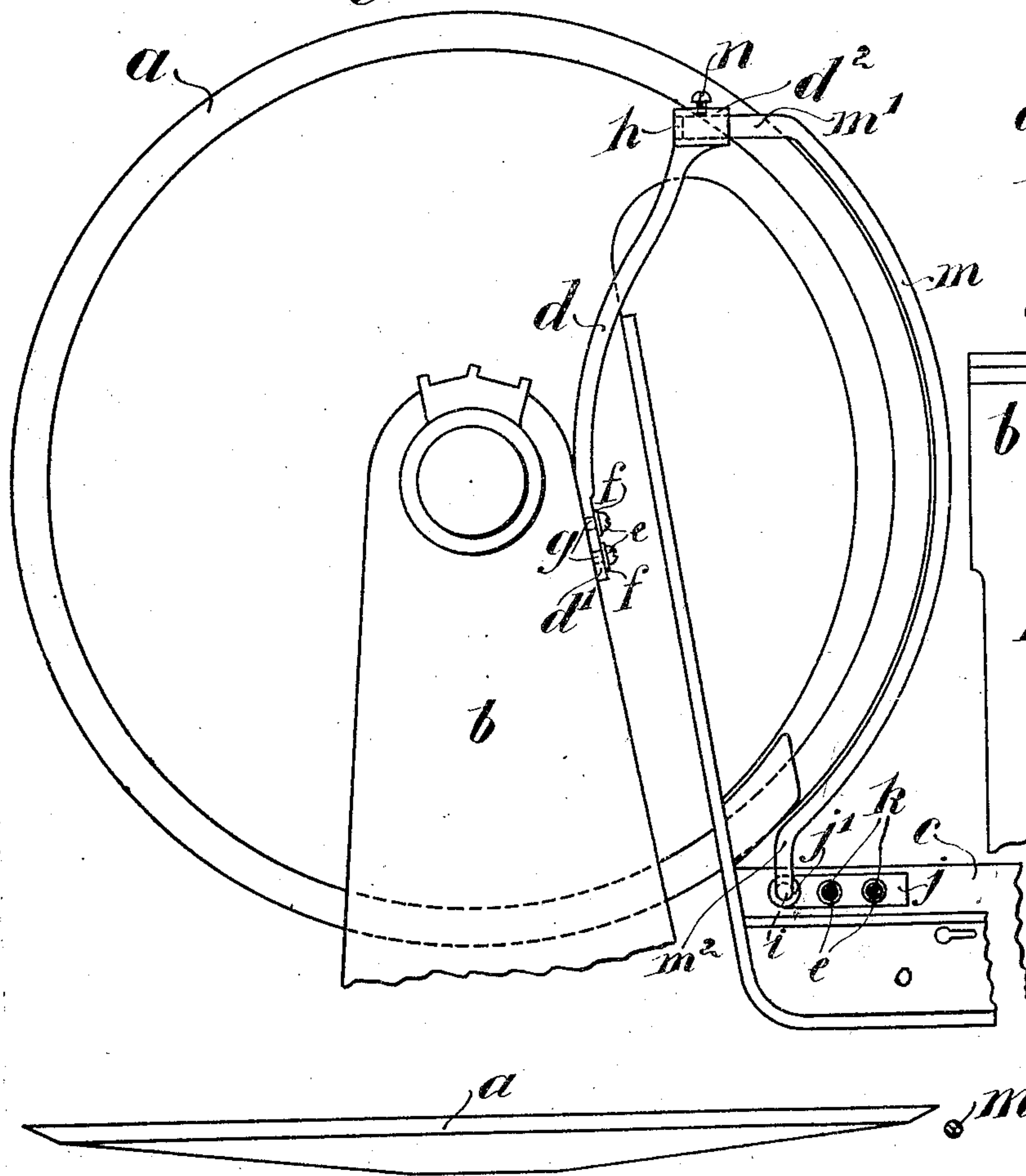


Fig. 2.

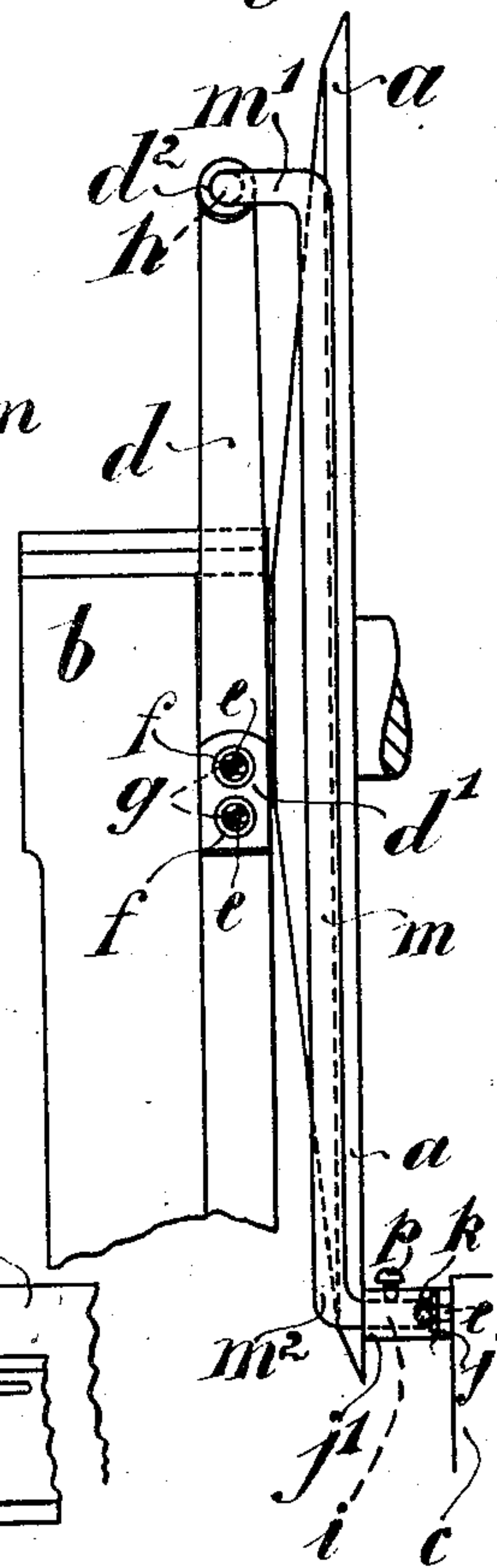


Fig. 3.

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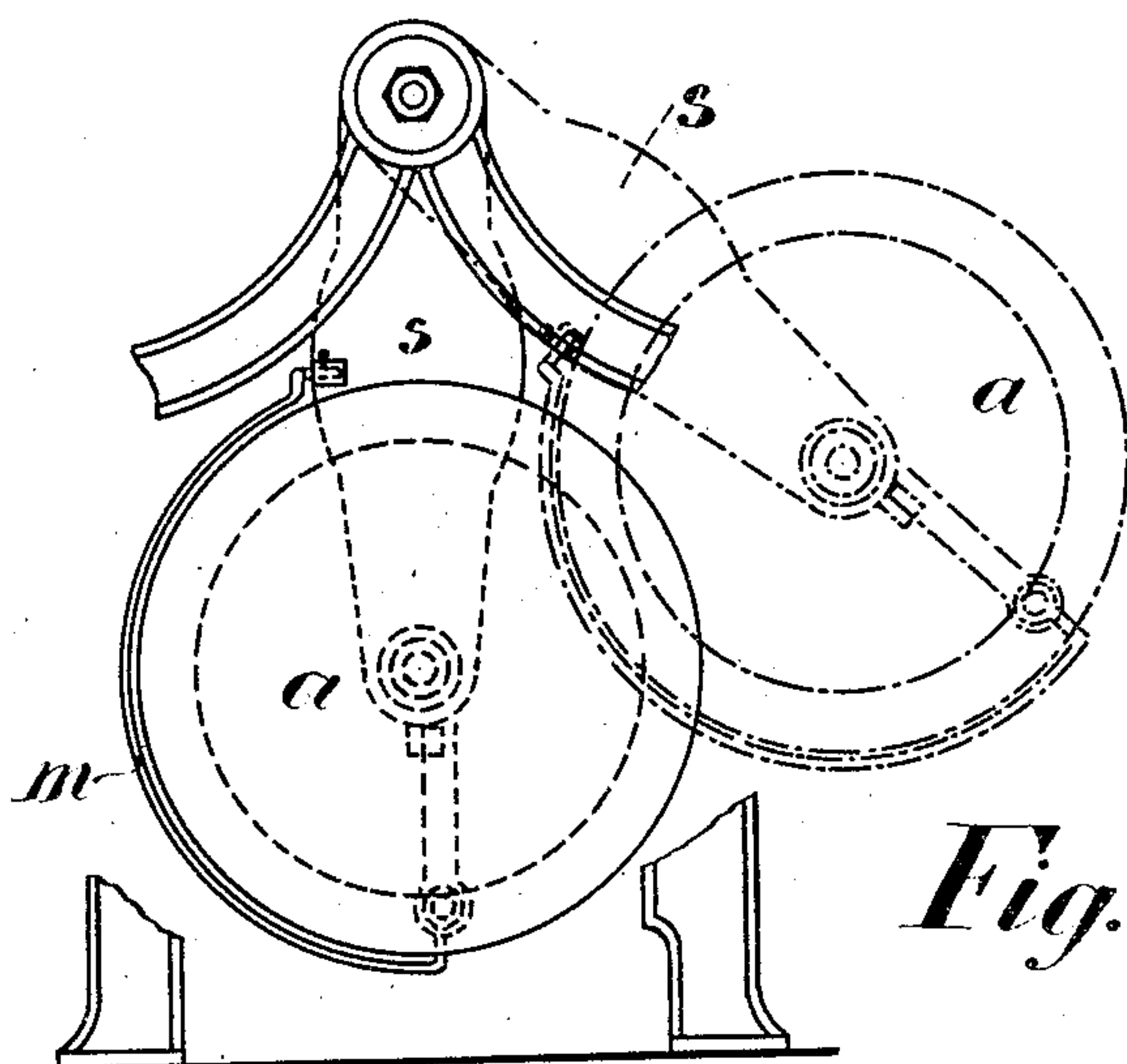


Fig. 4.

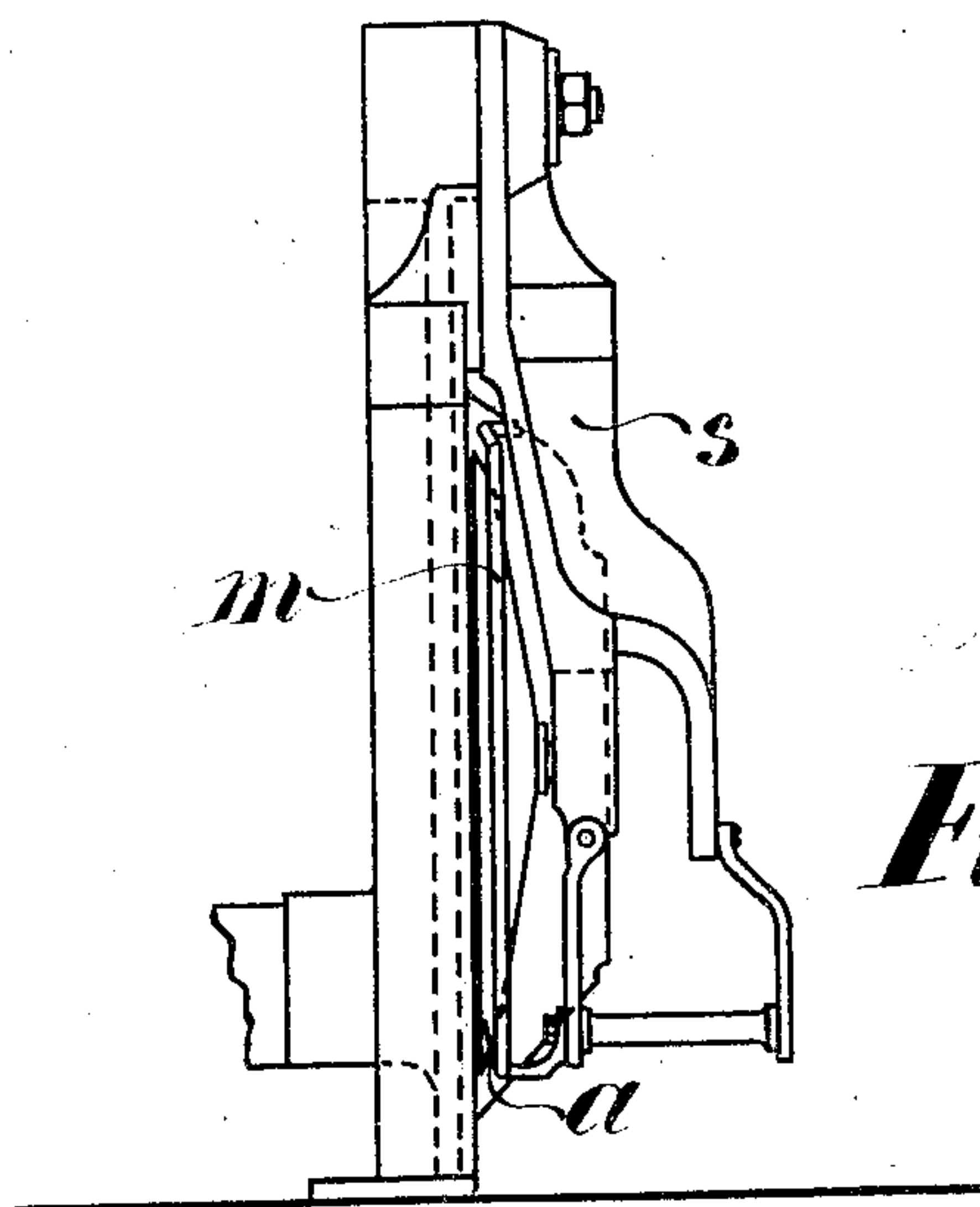


Fig. 5.

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UNITED STATES PATENT OFFICE.

ARIE ROEST, OF AMSTERDAM, NETHERLANDS, ASSIGNOR TO MAATSCHAPPIJ TOT VERVAARDIGING, VAN SNIJMACHINES VOLGENS "VAN BERKEL'S PATENT" EN VAN ANDEREWERKTUIGEN, OF ROTTERDAM, NETHERLANDS.

KNIFE-GUARD FOR MEAT-SLICING MACHINES.

No. 887,018.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed June 19, 1907. Serial No. 379,702.

To all whom it may concern:

Be it known that I, ARIE ROEST, of Spui-straat 95, Amsterdam, in the Kingdom of the Netherlands, have invented a certain new and useful Knife-Guard for Meat-Slicing Machines, of which the following is a specification.

This invention relates to meat slicing machines having rotary circular cutting knives and it has for its object to provide a simple and efficient device or guard for the edge of the knife.

At present adjustable guards for the rotary circular knives of meat slicing machines are known which are of a somewhat channel or other section and are placed over the edge of the knife so as to extend up the back and over the top of the same. The front part of the knife where the actual cutting is effected is, however, not protected and the object of the present invention is to provide a simple and efficient device or guard for the part of the edge of the knife at present unprotected. The guard not only serves to protect the edge of the blade but also to prevent the operator cutting himself thereagainst when placing the meat on the meat table of the machine or removing the cut slices.

The device or guard consists simply of a solid bar of metal or other suitable material which is held in position near the edge of the knife, at the back thereof, by means of brackets fitted on the machine.

The device, which is inexpensive to make and fit, can be readily applied to existing machines and its position relative to the edge of the knife can be adjusted as desired. It can be readily removed when necessary.

In order that my said invention may be properly understood and readily carried into effect, I have hereunto appended explanatory drawings, whereon:—

Figure 1 is a side view of part of a meat slicing machine showing the circular knife with the guard in position. Fig. 2 is a plan view of the knife and showing the guard in section. Fig. 3 is a front view of the knife with the guard in position. Figs. 4 and 5 show a method of applying the guard to a revoluble and swinging knife.

Referring to the drawings:—*a* is the circular knife, *b* is the main bearing bracket, *c* is part of the frame of the machine. A bracket *d* is provided, which may be of any suitable

section or shape but is, preferably, solid and of oval section as shown in the drawings, the lower part of the bracket *d* being secured by screws, or studs or the like *e, e*. The bracket is flattened at *d'* to form a bearing surface for the washers *f, f*, and has oblong shaped holes *g, g*, therein to permit of its adjustment on the main bearing bracket *b* and relatively with the knife by means of the said slotted holes *g, g*, and the screws or studs *e, e*.

The upper part of the bracket *d* is formed into a cylindrical shape at *d''* and has a circular hole *h* made longitudinally thereof. Another bracket *j* is provided which is preferably of rectangular section with a cylindrical part *j'*, having a circular hole *i* therein. This bracket *j* is secured to the frame *c* of the machine, being adjustably attached thereto by means of the screws, studs or the like *k, k*, passing through the slotted holes *l, l*, in the bracket *j* and screwed into the frame *c*.

The guard *m* preferably consists of a solid rod of circular section, which may be made of metal or other rigid material and this rod is shaped to conform to the circular shape of the knife *a* and at its upper end *m'*, is shaped so as to be readily inserted into the circular hole *h* of the cylindrical shaped upper part *d''* of the bracket *d*, being held and fastened therein by means of the screw *n*. The end *m'* of the guard *m* can be readily adjusted in the circular hole *h* and held in any position therein by the screw *n*. The lower end *m''* of the guard *m* is also shaped so as to be readily inserted into the circular hole *i* in the cylindrical part *j'* of the bracket *j*, being held and fastened therein by means of the screw *p*. The end *m''* of the guard *m* can be readily adjusted in the circular hole *i* and held in any position therein by the screw *p*.

It will be seen that the rod *m* is bent so as to follow the contour of the knife edge and is arranged just at the back of and in advance of said edge. In this position it does not interfere with the cutting of the meat nor with the free fall of the cut slices on to the receiver *o* while at the same time it serves as an effectual guard. Owing to the special shape of the guard *m* and brackets *d* and *j* provided to hold the rod in position the adjustment of the device relative to the edge of the knife *a* can be readily accomplished. The guard can also be readily applied to a machine having a swinging and revoluble circu-

lar knife as shown at Figs. 4 and 5, the rod *m* being secured to the swinging arm *s*.

Having now fully described my invention what I claim and desire to secure by Letters Patent is:—

1. A guard for that part of the rotary circular knives of meat slicing machines where the actual cutting is effected comprising a bar which is so shaped as to follow the contour of the knife edge and is arranged a little behind and in advance of the edge of the blade and means for holding the bar in position.

2. A guard for that part of the rotary circular knives of meat slicing machines where the actual cutting is effected comprising a bar which is so shaped as to follow the contour of the knife edge and is arranged a little behind and in advance of the edge of the blade and adjustable means for holding the bar in position.

3. A guard for that part of the rotary circular knives of meat slicing machines where the actual cutting is effected comprising, in combination, a bar arranged a little behind and in advance of the edge of the knife, means for holding the upper end of the bar in position and means for holding the lower end of the bar in position.

4. A guard for that part of the rotary circular knives of meat slicing machines where the actual cutting is effected comprising, in combination, a bar arranged a little behind and in advance of the edge of the knife, a bracket for holding the upper end of the bar in position, a bracket for holding the lower end of the bar in position and means for securing and supporting said brackets.

5. A guard for that part of the rotary circular knives of meat slicing machines where the actual cutting is effected comprising, in combination, a round bar arranged a little behind and in advance of the edge of the

knife, a bracket with a cylindrical portion having a hole therein for the reception of the upper end of the bar, a bracket with a cylindrical portion having a hole therein for the reception of the lower end of the bar, means for securing the bar in said cylindrical portions and means for securing the brackets to the machine.

6. A guard for that part of the rotary circular knives of meat slicing machines where the actual cutting is effected comprising, in combination, a round bar curved to follow the contour of the knife edge and having its upper and lower ends bent horizontally, a bracket with a cylindrical portion having a hole therein for the reception of the upper end of the bar, a bracket with a cylindrical portion having a hole therein for the reception of the lower end of the bar, means for securing the bar in said cylindrical portions and means for securing the brackets to the machine.

7. A guard for that part of a rotary circular knife of a meat slicing machine where the actual cutting is effected, comprising an adjustable bracket having a tubular portion, a second adjustable bracket having a tubular part at an angle to said tubular portion, and a guard curved to conform to the shape of the knife and having its ends adjustably held in the tubular parts of said brackets, said guard being arranged at the back and in advance of the edge of the knife and out of the plane of the cutting and of the fall of the cut slices.

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

ARIE ROEST.

Witnesses:

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