

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.

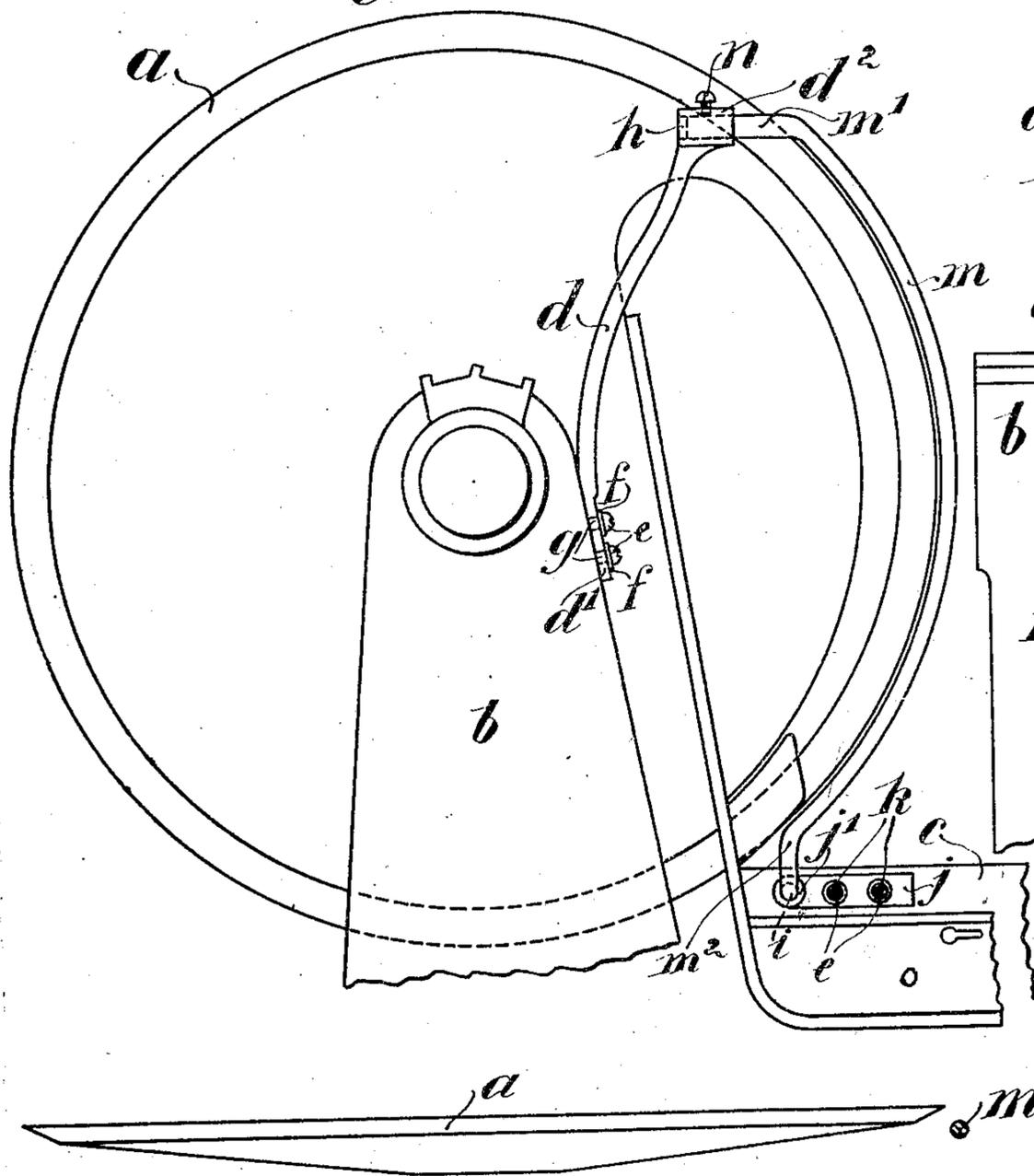


Fig. 2.

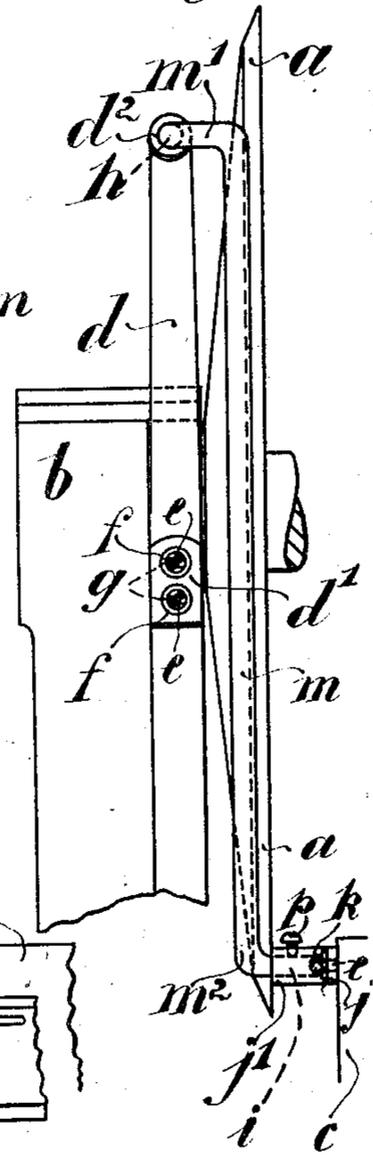


Fig. 3.

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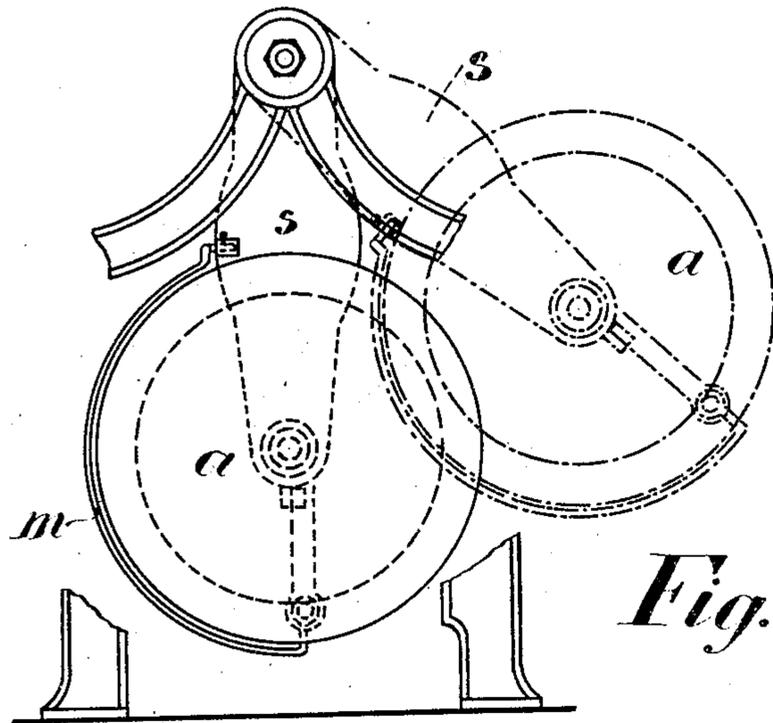
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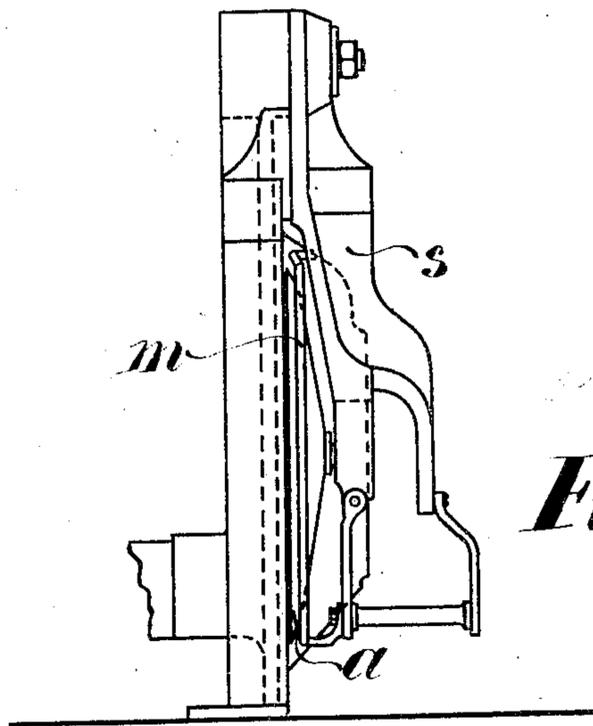
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2 SHEETS—SHEET 2.



*Fig. 4.*



*Fig. 5.*

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# UNITED STATES PATENT OFFICE.

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## KNIFE-GUARD FOR MEAT-SLICING MACHINES.

No. 897,018.

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 speci-  
fication.

This invention relates to meat slicing ma-  
chines 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 brack-  
ets 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 explana-  
tory 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 circu-  
lar 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 circu-  
lar hole *h* made longitudinally thereof. An-  
other bracket *j* is provided which is prefer-  
ably 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 ad-  
justed 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 in-  
terfere with the cutting of the meat nor with  
the free fall of the cut slices on to the re-  
ceiver *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* pro-  
vided to hold the rod in position the adjust-  
ment of the device relative to the edge of the  
knife *a* can be readily accomplished. The  
guard can also be readily applied to a ma-  
chine 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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AUGUST SIEGFRIED DOEEN.