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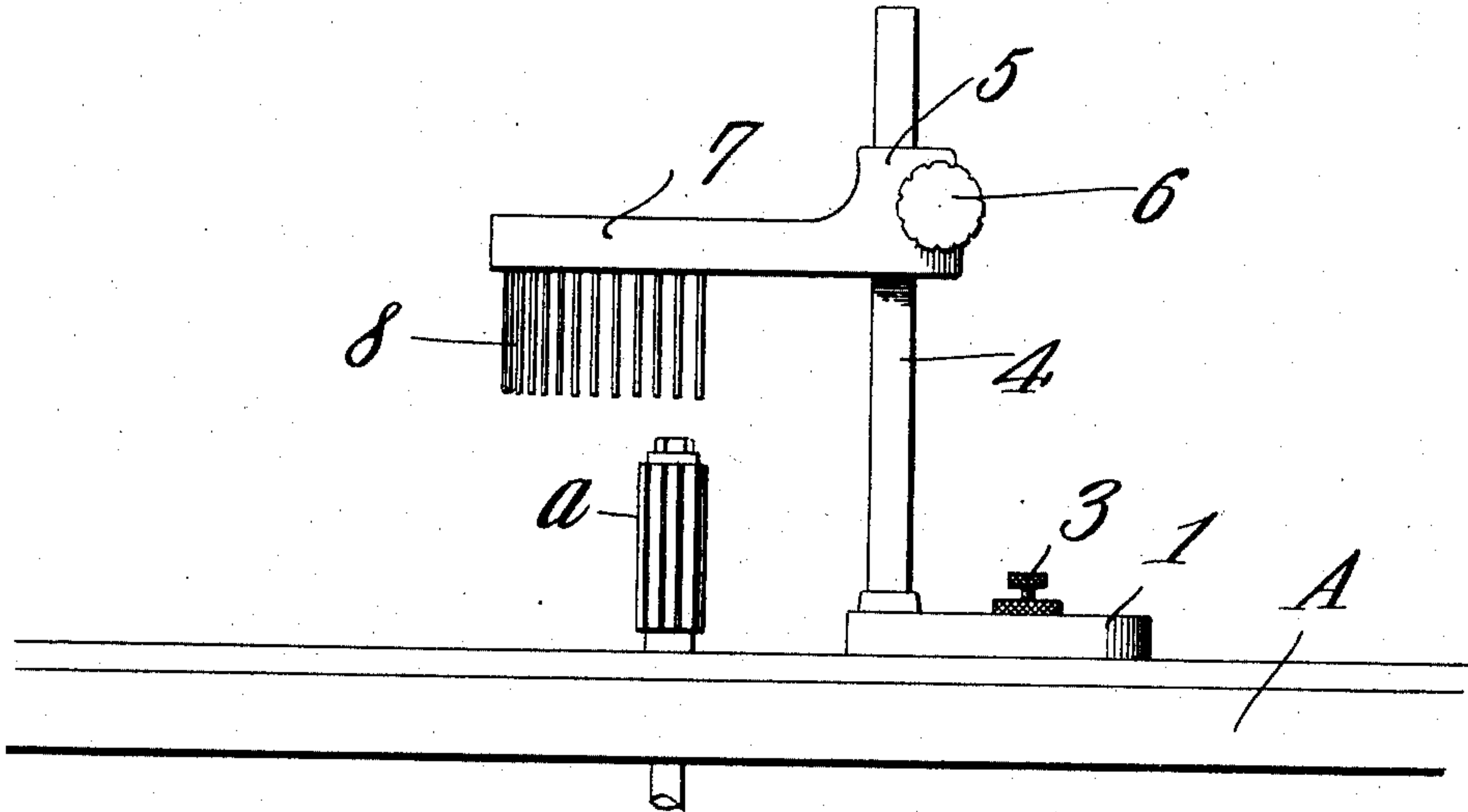
CUTTER GUARD.

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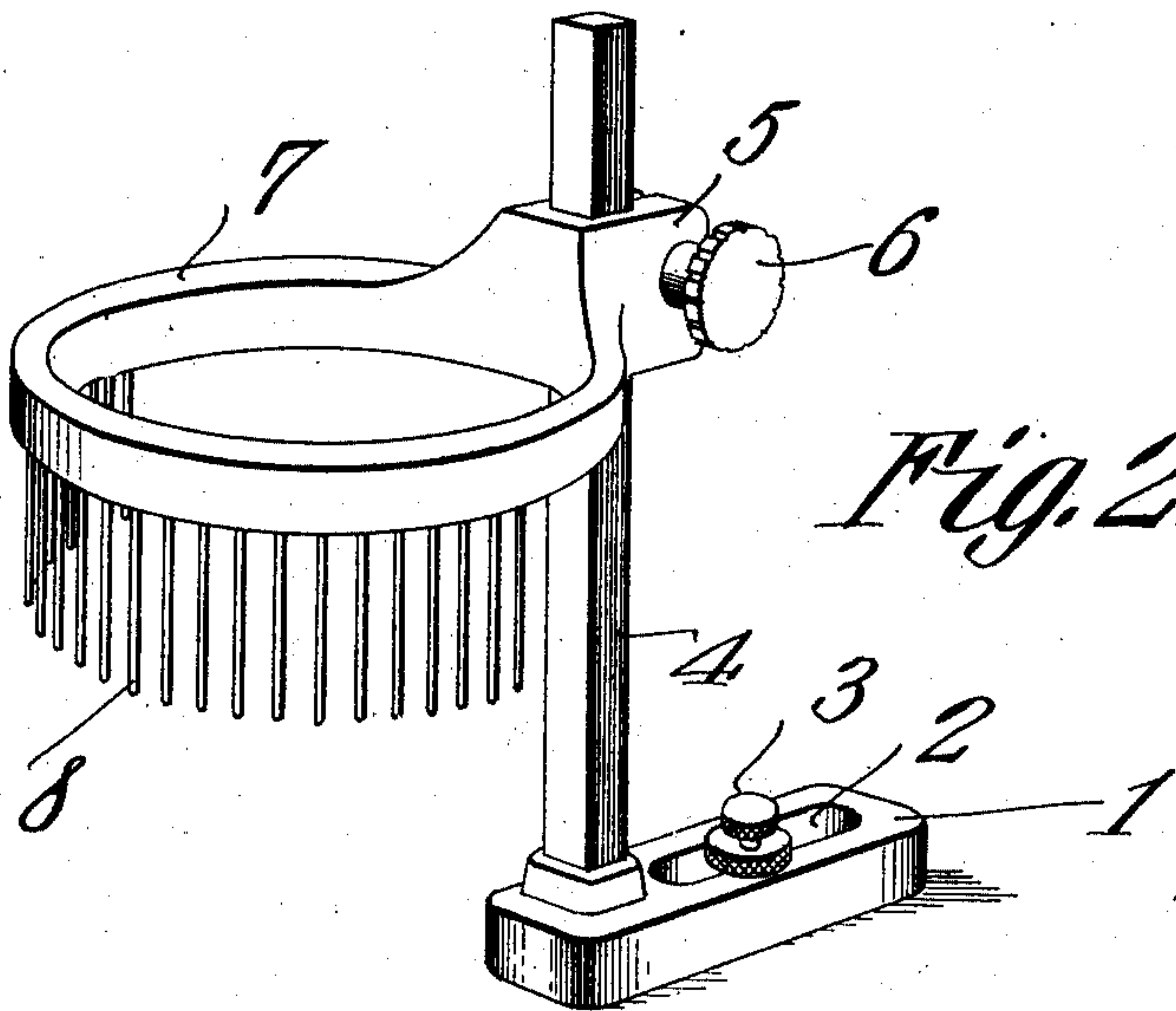
909,116.

Patented Jan. 5, 1909.

*Fig. 1.*



*Fig. 2.*



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# UNITED STATES PATENT OFFICE.

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## CUTTER-GUARD.

No. 909,116.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed March 16, 1908. Serial No. 421,283.

*To all whom it may concern:*

Be it known that I, ANDREW RASMUSSEN, a citizen of the United States, residing at 1526 Junction avenue, Racine, in the county of Racine and State of Wisconsin, have invented a new and useful Cutter-Guard, of which the following is a specification.

This invention relates to guards for cutter heads such as used for shaping wood in the production of molding, etc. It is a well known fact that in machines of this character in which the cutter heads extend above the table numerous accidents to the hands of the workmen occur as a result of accidental contact with the cutter head due to the breaking of the material being worked in shape or to the slipping of material. Oftentimes the material being worked springs up and flies from the cutter head and injures the body of the operator. The dangers resulting from devices of this character have resulted in the provision of guards of various constructions designed to prevent the operator's hands from coming into contact with the head. All of these devices, however, have obstructed the view to a greater or less extent and have therefore been rendered objectionable. Moreover, guards such as heretofore employed have not operated efficiently to prevent material from flying upward from the cutter head and against the operator.

The object of the present invention is to improve upon devices of this character such as heretofore constructed by providing guards which will not obscure the cutter head to an objectionable extent but which will nevertheless act efficiently to prevent the operator's hands from coming into contact with the blades.

Another object is to provide a guard which is so shaped as to engage the work should it be thrown upwardly from the cutter head and thus efficiently prevent it from flying against the face or body of the operator.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a side elevation showing the relative position of the

guard and cutter head. Fig. 2 is a perspective view of the guard.

Referring to the figures by characters of reference, A designates the table of the machine above which extends a cutter head *a* of the usual or any preferred construction.

The guard constituting the present invention consists of a base block 1 having a longitudinal slot 2 for the reception of a binding screw 3 which engages the table. A standard 4 preferably angular in transverse section extends upward from the block and has a sleeve 5 adjustably mounted thereon and designed to be secured in desired position by means of a screw 6. This sleeve extends from and is formed integral with a ring 7 disposed at right angles to the standard and extending downward from the ring are a number of guard fingers 8 preferably formed integral with the ring, although they can, if preferred, be made separate therefrom and secured thereto in any preferred manner. As shown in the drawings these fingers extend about one-half way around the ring, the end fingers being spaced at about the same distance from the standard 4.

In using the device herein described the same is adjusted upon the table so as to bring the standard 4 at a desired distance relative to the cutter head and the ring 7 is then adjusted vertically so that these fingers will assume positions at a desired elevation relative to the table. The operator can then direct against the cutter head the material to be shaped and should this material break or accidentally slip for any reason the guard fingers 8 would prevent the hands of the operator from accidentally coming into contact with the cutter head. It will be noted that the fingers are spaced apart throughout their lengths and are connected solely at their upper ends. It will be apparent therefore that the work will be plainly visible to the operator either by looking through the ring 7 or between the fingers 8. Moreover, should the work or a splinter be thrown upward therefrom, as often occurs, the fingers 8 will receive it between their lower or spaced ends and thus prevent it from flying outward against the face of the operator.

It will be seen that the device is very simple, durable, and efficient, can be readily applied, and is advantageous because it reduces



to the minimum the obstruction of the view of the cutter head and the work operated upon by it.

What is claimed is:

- 5 1. A device of the character described comprising an adjustably supported ring, and a series of spaced guard fingers depending therefrom, said fingers being connected solely at their upper ends.
- 10 2. The combination with an adjustable base and a standard; of a ring adjustably mounted upon the standard, and a series of spaced guard fingers depending from the ring and connected solely at their upper ends.
- 15 3. A device of the character described comprising a base, a standard thereon, a ring adjustably connected to the standard, and an arcuate series of spaced guard fingers secured at one end to and depending from the  
20 ring.
4. A device of the character described comprising an adjustably supported ring, and a series of guard fingers depending from and connected at their upper ends by the  
25 ring, said fingers being spaced apart throughout their lengths.
5. The combination with a table and a cutter head upstanding therefrom; of a base slid-

ably mounted upon the table, means for securing the same against movement, a stand- 30  
ard upon the base, a ring adjustably connected to the standard and shiftable longitudinally thereof, and an arcuate series of guard fingers depending from the ring and connected solely at their upper ends, said fingers being spaced apart throughout their lengths and extending around the cutter head.

6. A device of the character described comprising a pivotally and slidably supported base, means for securing the same in ad- 40  
justed position, a standard upstanding from the base, a ring mounted upon and shiftable longitudinally of the standard, means for securing the ring in adjusted position, and an arcuate series of guard fingers depending 45  
from the ring and spaced apart throughout their lengths, said fingers being connected solely at their upper ends.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature 50  
in the presence of two witnesses.

ANDREW RASMUSSEN.

Witnesses:

CHRISTIAN JOHNSON,  
JAMES CROY.