

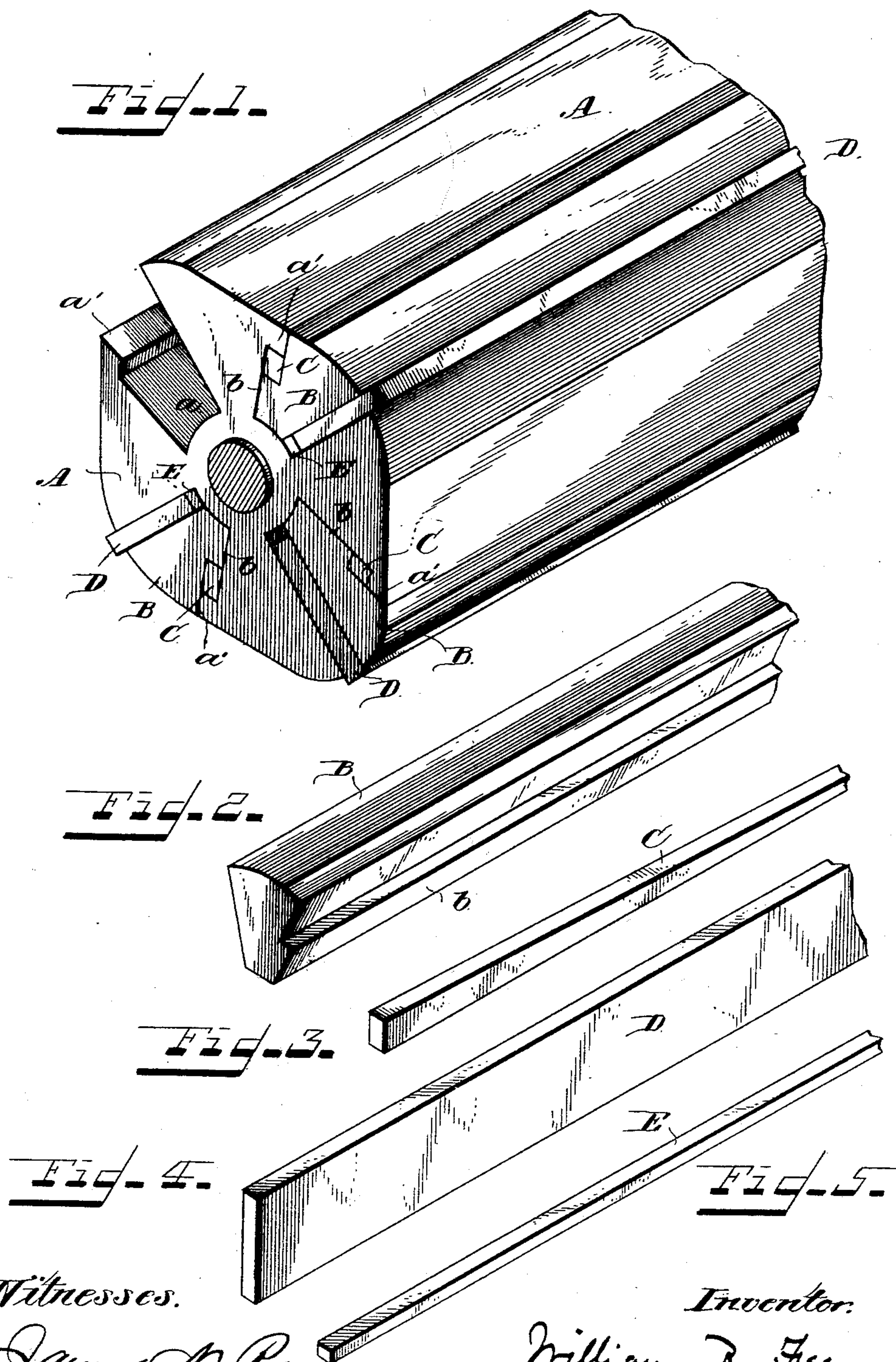
(No Model.)

2 Sheets—Sheet 1.

W. R. FEE.
CLAMP FOR CUTTER BLADES.

No. 520,260.

Patented May 22, 1894.



Witnesses.
James H. Ramsey
Benjamin Bloch

Inventor.
William R. Fee,
By Geo. B. Parkinson,
his attorney.

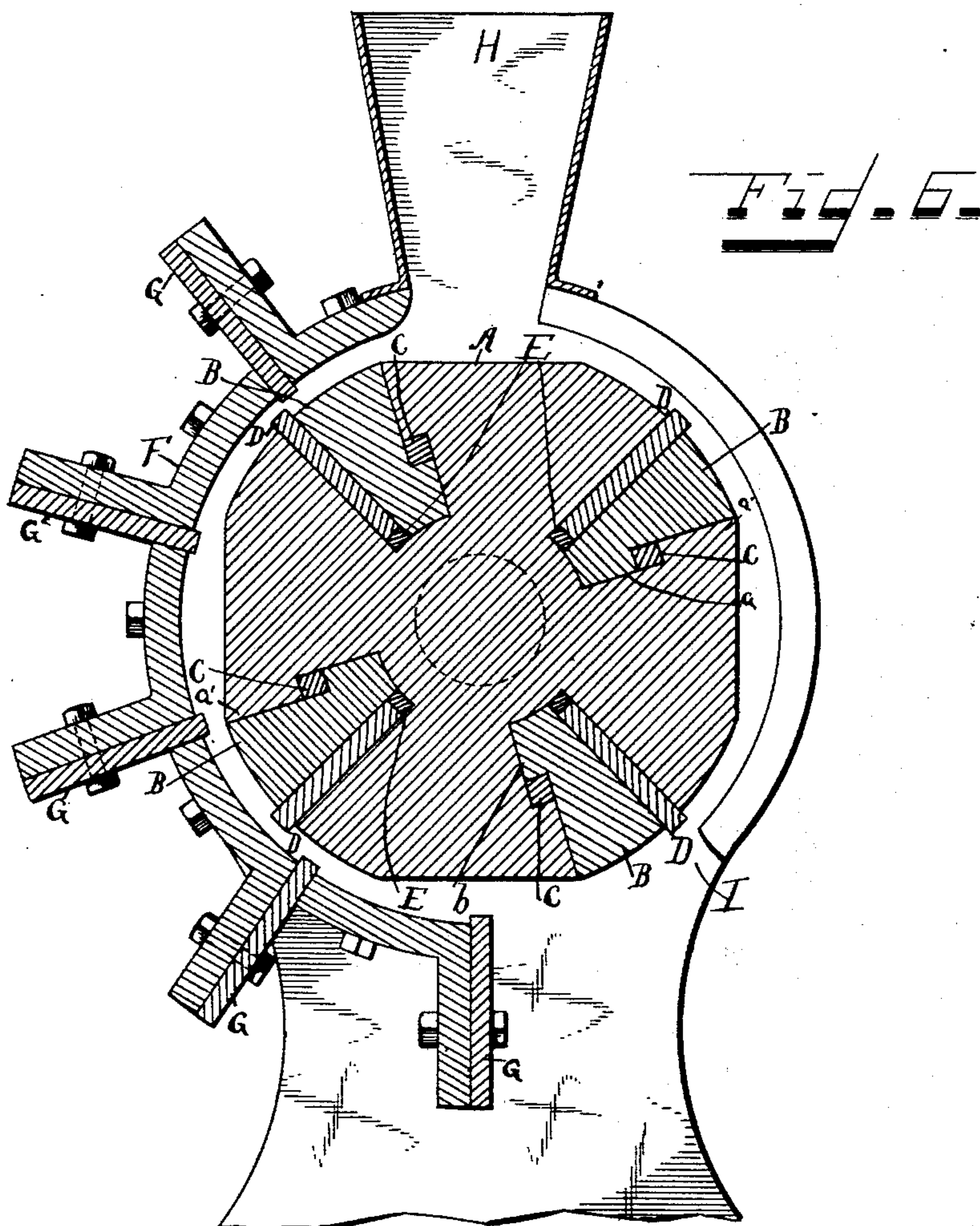
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WITNESSES:

J. Thompson Cross,
E. K. Hood.

INVENTOR

William R. Fee,
BY
Geo. S. B. Dickinson,
ATTORNEY.

UNITED STATES PATENT OFFICE.

WILLIAM R. FEE, OF CINCINNATI, OHIO, ASSIGNOR TO ANDREW J. WHITE,
OF SAME PLACE.

CLAMP FOR CUTTER-BLADES.

SPECIFICATION forming part of Letters Patent No. 520,260, dated May 22, 1894.

Application filed December 27, 1892. Serial No. 456,394. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. FEE, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Clamps for Cutter-Blades, of which the following is a specification.

The object of my invention is to afford convenient, speedy and efficient means of clamping and adjusting a cutter-blade to the cylinder of the hulling machine, and the invention consists in the construction and arrangement of parts hereinafter more fully set forth.

I have illustrated my invention as applied to the cylinder of a cotton-seed huller.

In the drawings: Figure 1 is a view in perspective of a portion of the knife-carrying frame or cylinder of a cotton-seed huller, having my invention applied thereto, showing one of the cutter-blades or ribs removed. Figs. 2, 3, 4 and 5 are corresponding views of the clamping-block, cotter or key, cutter-blade or rib, and supporting-strip for the cutter-blade, respectively. Fig. 6 is an end sectional elevation of the cylinder mounted in a hulling frame.

A represents the knife-carrying frame or cylinder of a hulling machine, and *a a* longitudinal grooves therein, preferably wedge-shaped. One wall of each of these grooves is provided with an overhanging ledge *a'*.

B is a clamping-block, preferably wedge-shaped, adapted to take into the grooves *a* and having on one side a longitudinal tenon *b* adapted to take under the ledge *a'*. The upper edge of this tenon has a slight longitudinal taper corresponding to the taper of a cotter or key C adapted to be driven between the tenon and the ledge *a'*. The thickness of the clamping-block is less than the width of the groove in order that a cutter-blade or rib D may be placed between the clamping-block and one wall of the groove. By driving the key the clamping-block is forced deeper into the groove and the cutter-blade is held in place by its gripping action. When the cutter-blade is worn, or for any reason it becomes desirable to adjust its position, it is only necessary to drive out the key, place the cutter-blade in the desired position and again

clamp it in place. I prefer to place supporting strips E, of wood or other suitable material, under the inner edge of the cutter-blade to guard against any danger that it may be forced inward by the working pressure. By varying the thickness of these strips the cutter-blades may be supported in any desired position. It is obvious that either the ledge or the tenon or both may be made tapering.

F, is a hulling frame provided with a row of knives, arranged on the periphery of the frame and projecting inwardly so as to approach the circle on which the knives mounted in the cylinder travel.

H represents a hopper through which the material to be hulled passes to the cylinder. After passing around the cylinder the hulled material falls through the opening, I, into a suitable receptacle.

I claim—

1. The combination in a clamp for cutter-blades of a frame, a groove therein having a ledge on one wall thereof, a wedge-shaped clamping-block having a tenon adapted to take under the ledge, and a key taking between the ledge and the tenon, substantially as and for the purpose specified.

2. The combination of a frame, a groove therein provided with a ledge, a cutter-blade, a wedge-shaped clamping-block provided with a tapering tenon, and a key, substantially as and for the purpose specified.

3. The combination of a cylinder, a groove therein; a cutter blade taking against the wall of the groove; a clamping block taking into the groove and against the cutter blade, and a key taking against the wall of the groove adapted to force the clamping block against the cutter blade, substantially as and for the purpose set forth.

4. The combination of the frame A, the groove *a* having ledge *a'*, the clamping-block B provided with tenon *b*, the cutter-blade D, the supporting strips E, and the key C, substantially as and for the purpose specified.

WILLIAM R. FEE.

Witnesses:

AUGUST F. HERBSBB,
JAMES N. RAMSEY.