J. CUTCALT.

HOMINY KNIVES.

No. 180,626. Patented Aug. 1, 1876.

Fig. 1

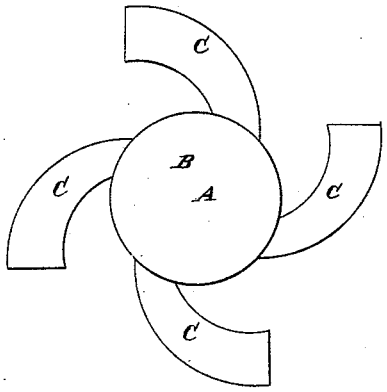

Fig. 2

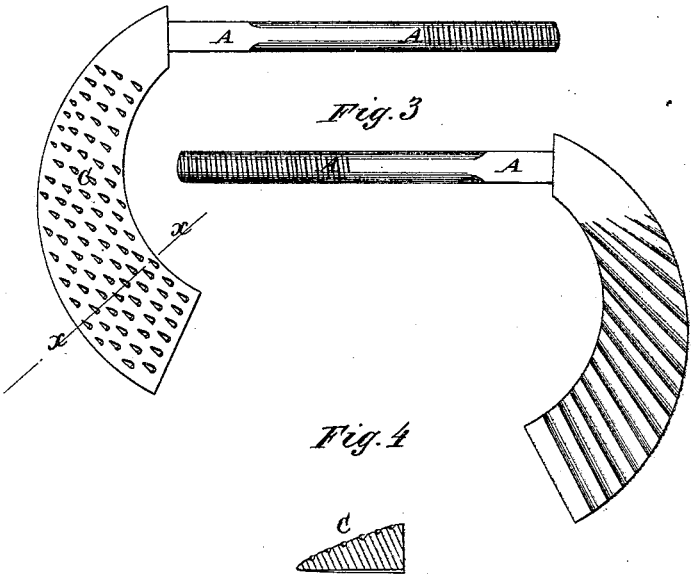

Fig. 3

Fig. 4

WITNESSES:

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JOHN OUTCALT, OF SPOTSWOOD, NEW JERSEY.

IMPROVEMENT IN HOMINY-KNIVES.

Specification forming part of Letters Patent No. **180,626**, dated August 1, 1876; application filed June 26, 1876.

To all whom it may concern:

Be it known that I, JOHN OUTCALT, of Spotswood, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Hominy-Knives, of which the following is a specification:

Figure 1 represents a set of my improved knives, shown as attached to a shaft. Fig. 2 is a detail view of the upper side of one of my improved knives. Fig. 3 is a detail view of the lower side of the same. Fig. 4 is a cross-section of the same, taken through the line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved knife or huller for hominy-mills, which shall be so constructed as to do its work faster and better than the knives constructed in the ordinary way.

The invention consists in improved knives or hullers for hominy-mills, made with their blades curved with a constantly-increasing curvature from their forward to their rear ends, made wider toward their rear ends, made inclined upon their upper sides, and flat or inclined upon their lower sides, and provided with rasp-teeth upon their upper sides, and file or rasp teeth upon their lower sides, as hereinafter fully described.

The shaft, case, and other parts of the mill are constructed in the usual way. A is the shank of the knife or huller, which is passed through and secured to the shaft B in the usual way. C is the blade of the knife, which is curved, as shown in Figs. 1 and 2, the curvature increasing toward its rear or free end, which is made wider than the forward end, upon which the shank A is formed. The upper side of the blade C is inclined, and its lower side is flat, as shown in Fig. 4. Upon the upper or inclined side of the knife C are formed rasp-teeth, as shown in Fig. 2, and upon its lower side are formed file-teeth, as shown in Fig. 3. By this construction and arrangement of the knives a spiral and centrifugal resistance is effected, by which the grain will be detained longer in the mill, and will be more thoroughly operated upon, and with less injurious breakage of the kernels, than with the ordinary knives.

In the case of horizontal mills some of the knives may be made inclined upon both sides to facilitate the feed of the grain through and its discharge from the mill. In this case the blades C may have rasp-teeth formed upon both sides.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

Improved knives or hullers for hominy-mills, made with their blades C curved with a constantly-increasing curvature from their forward to their rear ends, made wider toward their rear ends, made inclined upon their upper sides, and flat or inclined upon their lower sides, and provided with rasp-teeth upon their upper sides, and file or rasp teeth upon their lower sides, substantially as herein shown and described.

JOHN OUTCALT.

Witnesses:

WM. H. PETTY,

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