

No. 752,965.

PATENTED FEB. 23, 1904.

M. W. FAHERTY.
COTTON SEED HULLER.
APPLICATION FILED AUG. 14, 1903.

NO MODEL.

Fig. 1.

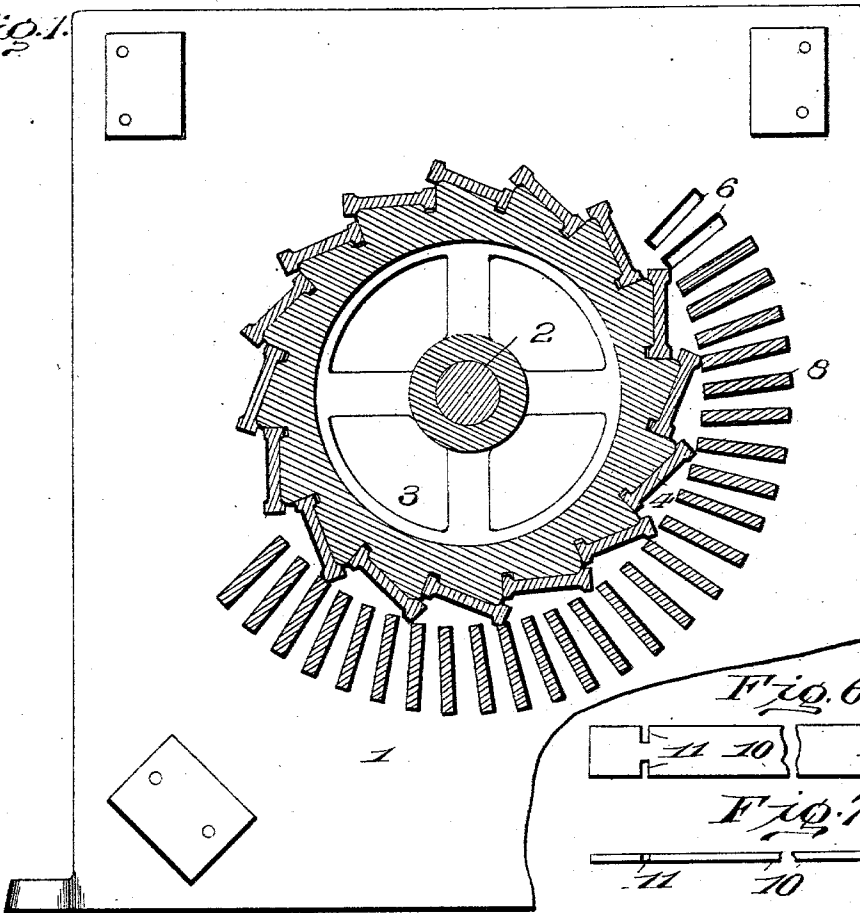


Fig. 6

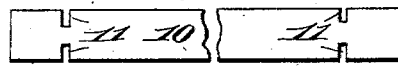


Fig. 7

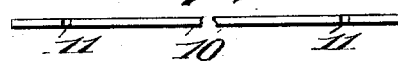


Fig. 2.

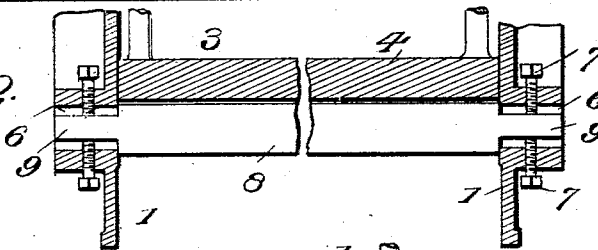


Fig. 3.



Fig. 4.

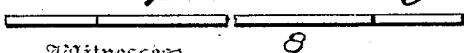
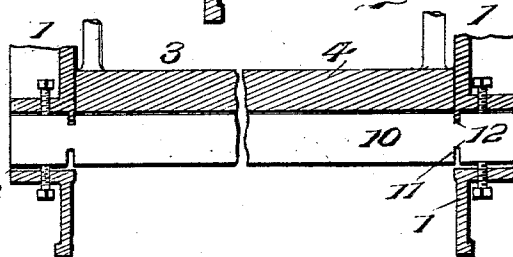


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

MICHAEL W. FAHERTY, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-HALF TO FREDERICK B. JONES, OF MEMPHIS, TENNESSEE.

COTTON-SEED HULLER.

SPECIFICATION forming part of Letters Patent No. 752,965, dated February 23, 1904.

Application filed August 14, 1903. Serial No. 169,542. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL W. FAHERTY, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Cotton-Seed Hullers, of which the following is a specification.

The object of my invention is to construct the huller-knife and the opening in which it is mounted in such manner that the knife will project beyond the edge of the opening in which it is secured toward the cylinder, thereby closing said opening to prevent the seed under treatment entering said opening or becoming lodged between the ends of the cylinder-knives and the huller sides, thus obviating wear of the huller sides at this point.

In the drawings, Figure 1 is a vertical sectional view of a cotton-seed huller embodying my invention, two of the knives being omitted. Fig. 2 is a section of the machine, broken away on the line 2 2, Fig. 1. Fig. 3 is a top plan view of the knife. Fig. 4 is an edge view of the knife. Fig. 5 is a view similar to Fig. 2 of a slightly-modified form.

In the drawings, 1 represents the sides of the huller; 2, the shaft upon which the huller-cylinder 3 is mounted, between said sides.

4 represents the cylinder-knives of approved construction.

Heretofore the openings in the sides of the huller, in which the concave knives are secured, were extended to a point nearer the cylinder-shaft than the cutting edge of the cylinder in order that the knives may be adjusted to compensate for wear of the cylinder-knives, whereas in my construction I form the knife-openings 6 in the sides of the huller, so that the inner edge of the knife opening or space 6 is the same distance from the center of the cylinder-shaft as the cutting edge of the cylinder-knives when clamped in position on the cylinder, as will be clearly seen in Fig. 2. By so constructing the knife-openings with reference to the cylinder I eliminate the space that is found at this point in all cotton-seed hullers, whereby the cotton-seed cannot enter an opening at this point, consequently reducing the wear upon the huller side.

7 represents adjusting-screws projecting within the knife-openings 6.

8 is my improved concave huller-knife, the ends of which are shaped so as to form an offset or tenon 9, said offset or tenon being mounted within the knife-spaces 6 and held therein by means of the adjusting-screws 7 impinging against the edges of said offset or tenon, as clearly shown in Fig. 2. When in this position, (see Fig. 2,) the cutting edge of the concave knife 8 is on a line with the inner edge of the knife-space 6, thereby closing said space against the entrance of cotton-seed therein.

In the modified construction I have designed the concave knife 10, said modified knife being provided with notches or grooves 11, extending from each edge thereof, into which a rib or lug 12 projects at the upper edge, said lug being integral with the sides of the huller and formed at the inner end of the knife-opening 13.

In the modified construction it will be seen that the inner edge of the knife-space 13 terminates at a point nearer the center of the cylinder-shaft than the periphery of the cylinder; but the space that is thus formed is closed by means of the rib or lug 12 against the entrance of cotton-seed into the knife-space.

By my invention it will be seen that I provide for the adjustment of the concave knives to compensate for the wear which may take place at the cutting edge of both the concave and the cylinder knives, but at the same time eliminate the opening at the inner edge of the knife-space, thus preventing cotton-seed from lodging at this point and the consequent wear to the huller side heretofore experienced.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. In a cotton-seed huller, the combination with the cylinder, and the huller sides having a series of openings therein, which openings are arranged concentric with the cylinder, and do not extend within the plane of the periphery of the cylinder, of knives, each of which knives has offsets secured in two opposite

huller-openings, and each knife bearing against both the inner faces of the huller sides, thereby closing the part of the huller-openings between the offsets and the cylinder, and
5 means acting on said offsets for adjusting the knives radially.

2. In a cotton-seed huller, the combination with the cylinder and the huller sides having knife-openings, of lugs forming the inner
10 edge of said openings and extending outside the periphery of the cylinder, knives having

transverse slots for said lugs, the outer ends of said knives being mounted in said openings, and means for adjusting said knives in said openings.

The foregoing specification signed this 8th day of August, 1903.

MICHAEL W. FAHERTY.

In presence of—

FRANK BLAMBERG,
W. F. HOUCK.