

No. 780,788.

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M. W. FAHERTY.
COTTON SEED HULLER.
APPLICATION FILED FEB. 19, 1904.

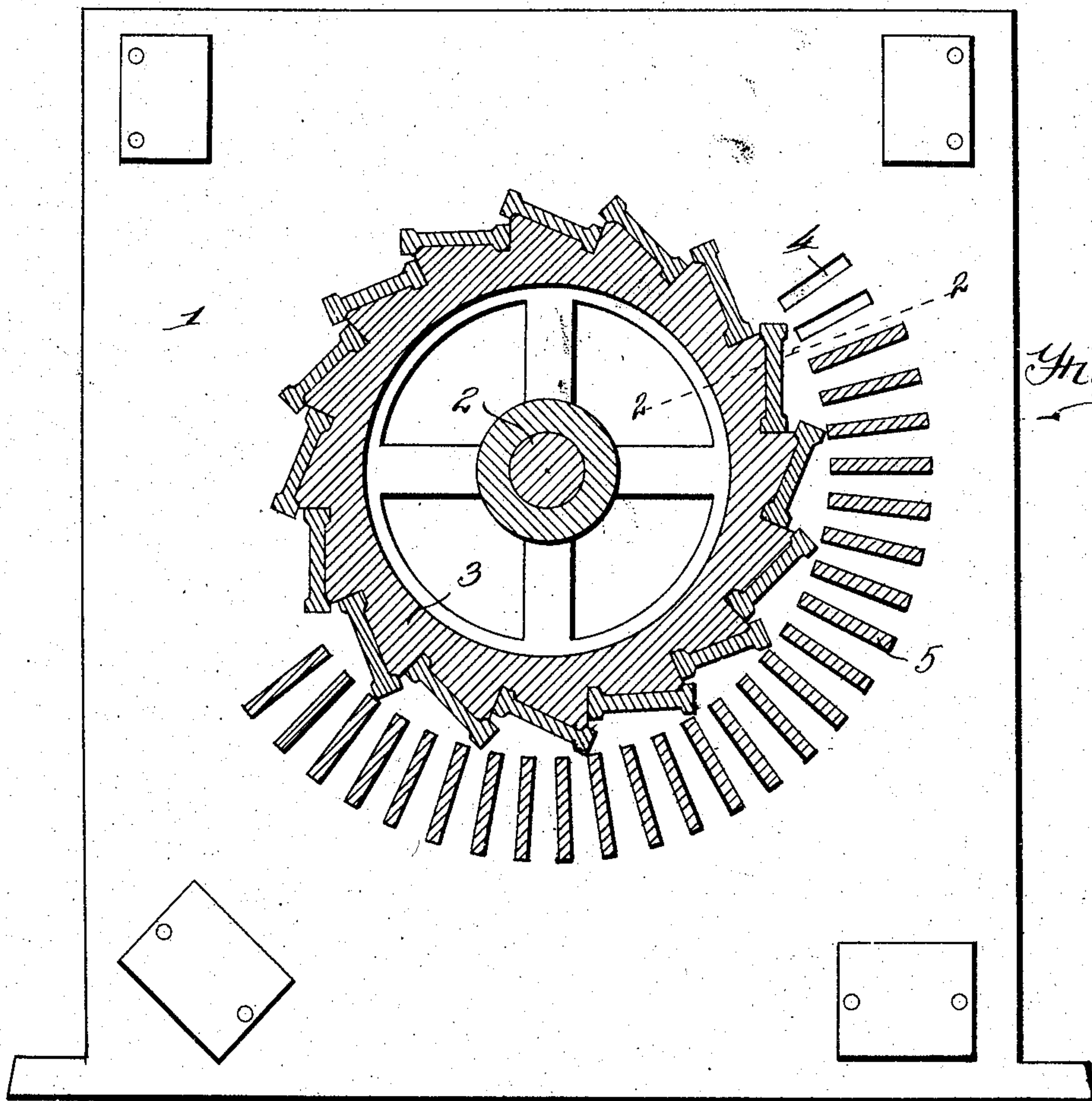


Fig. 1.

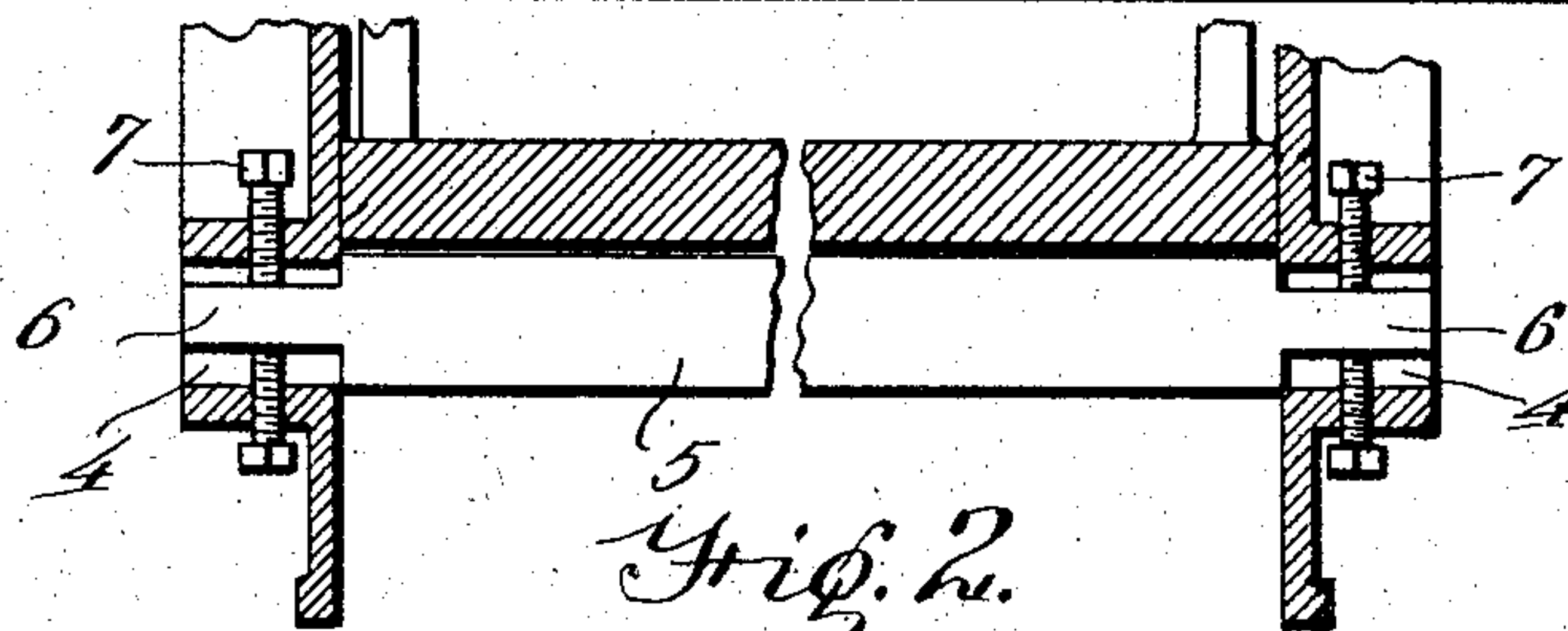


Fig. 2.

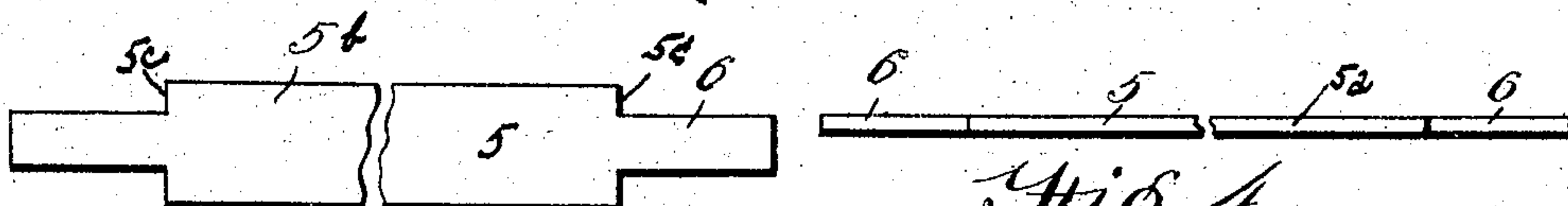


Fig. 3.

Fig. 4.

Witnesses

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MICHAEL W. FAHERTY, OF MEMPHIS, TENNESSEE.

COTTON-SEED HULLER.

SPECIFICATION forming part of Letters Patent No. 780,788, dated January 24, 1905.

Original application filed August 14, 1903, Serial No. 169,542. Divided and this application filed February 19, 1904. Serial No. 194,404.

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 and Knives Therefor, of which the following is a specification.

My invention relates to cotton-seed hullers and knives therefor of that type in which the concave is formed of a number of thin knives inserted through openings in the sides of the hullers and independently adjusted to and from the cylinders by means of set-screws, and my present application is a division of my application filed August 14, 1903, Serial No. 169,542, and in said application I claim, broadly, a huller of the above-mentioned type in which the openings do not extend within the plane of the periphery of the cylinder, while the knives are provided with offsets which permit the knives to be adjusted to bear against the inner faces of the huller sides above knife-openings and to and from the cylinder without leaving lateral openings in which the material could enter and either escape from the machine or accumulate in such a manner as to materially interfere with the operation of the knives. In said application two embodiments of this broad idea were illustrated. One of said embodiments was specifically claimed—to-wit, the forming of the offsets by cutting transverse slots in the knives in position to receive lugs or projections on the inner edge of the openings through which the knives are inserted, said lugs extending outside of the periphery of the cylinder. The present application is directed specifically to the other form shown, but not claimed in my previous application, according to which the offsets of the knives are formed by providing reduced ends or tenons on the knives of a width throughout their length less than the width of the body of the knife, said tenons receiving pressure from the set-screws to cause the adjustment of the knives, and thus projecting the edges of the knives inward beyond the upper edge of the openings through which the knives are inserted.

My present invention therefore consists in

cotton-seed hullers and knives therefor constructed substantially as above outlined.

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 II, Fig. 1. Fig. 3 is a top plan view of the knife. Fig. 4 is an edge view of the knife.

In the drawings, 1 represents the huller sides; 2, the shaft upon which the huller-cylinder 3 is mounted, said huller-cylinder 3 being of an approved type. The huller sides are provided with a series of elongated openings 4, arranged concentrically around the cylinder, but not extending within the zone of the periphery of the cylinder. In Fig. 1 I have omitted two of the knives in order to clearly illustrate these openings. The knife has a body 5, provided with notched or reduced ends or tenons 6, against which the set-screws 7 abut when said reduced ends or tenons 7 are within the openings 4, as shown in Fig. 2. The huller-knife body 5 is rectangular in cross-section and of a length approximately equal to the distance between the inner faces of the huller side. Its flat edges 5^a are of a thickness less than the width of its flat sides 5^b, and its ends 5^c are at right angles to the flat edges. The tenons 6 extend centrally from the ends of the knife and are of the same width throughout their lengths, but less in width than the width of the flat sides, their thickness, however, being the same as the flat edges.

Heretofore the openings in the sides of hullers in which individual concave knives are used 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, whereas in my construction I form the knife-openings 4 in the sides of the huller, so that the inner edge of the knife-opening 4 does not extend within the working zone of the periphery of the cylinder. By so constructing the knife-openings with reference to the cylinder I eliminate the space that is found in the machines of this type at this point, thus preventing the cotton-seed from escaping from machines at said point,

consequently obviating clogging and reducing the wear upon the huller side. The knives are of such thickness that they slide endwise through the openings 4, as will be readily understood in the drawings. Thus each knife is independent and is susceptible of independent adjustment.

Having thus described my invention, what I claim is—

10 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 periph-
15 ery of the cylinder; of knives secured in two opposite openings and each comprising a body having a length approximately equal to the distance between the huller sides, and a tenon at each end of the body of less width through-
20 out its length than the width of the body.

2. A cotton-seed-huller knife comprising a body rectangular in cross-section and having its flat edges of a thickness less than the width of its flat sides and its ends at right angles to
25 the flat edges; and a tenon extending centrally from each end of the body and of the same

width throughout its length and of the same thickness as the flat edges of the body but less in width than the width of the flat sides.

3. In a cotton-seed huller, the combination 30 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 periph-
35 ery of the cylinder; of knives secured in two opposite openings and each comprising a body which is rectangular in cross-section and has its flat edges of a thickness less than the width of its flat sides and its ends at right angles to
40 the flat edges, and a tenon extending centrally from each end of the body of the same width throughout its length and of the same thick-
ness as the flat edges of the body, but less in width than the width of the flat sides; and
45 means acting on the tenons for adjusting the knives radially.

The foregoing specification signed this 16th day of February, 1904.

MICHAEL W. FAHERTY.

In presence of—

JNO. COLBERT,

W. H. HARRINGTON.