

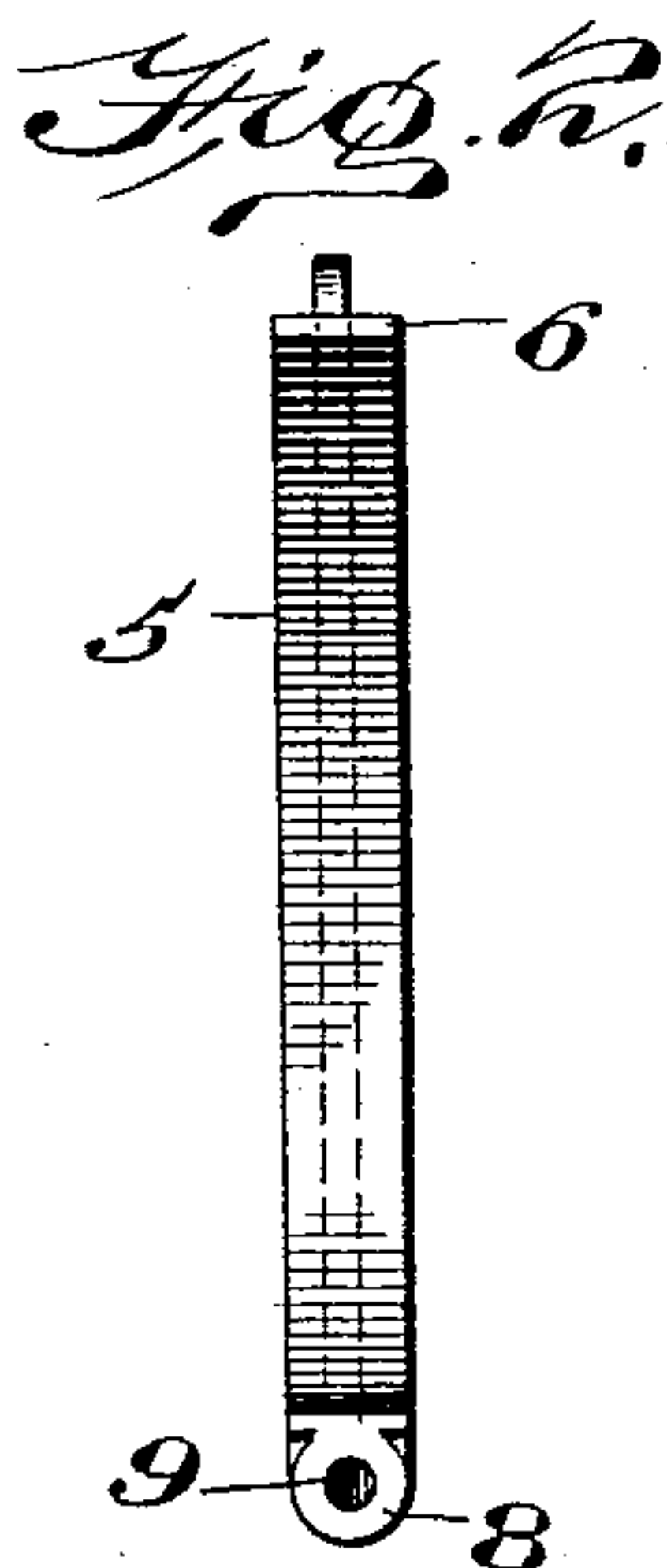
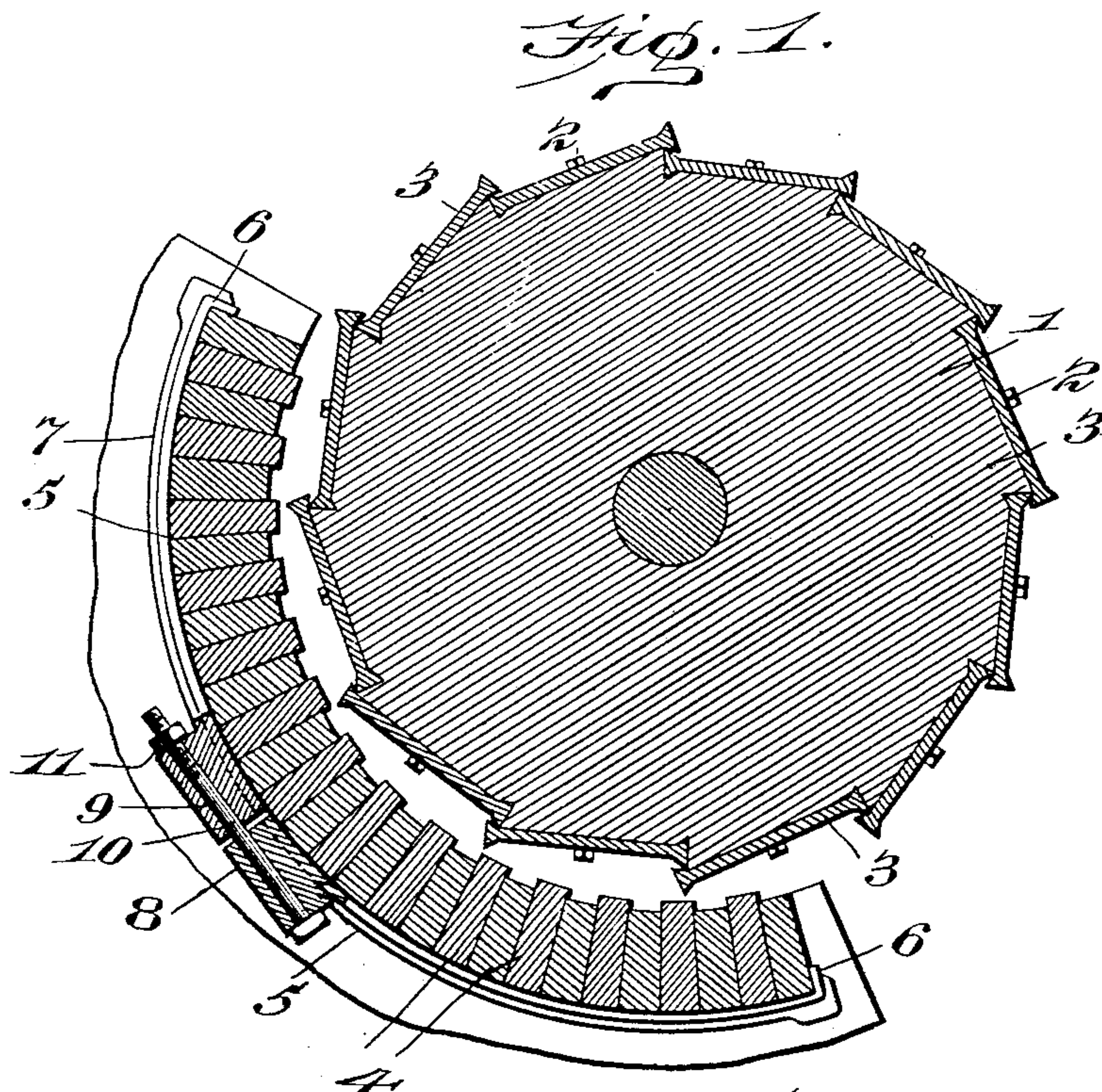
No. 751,705.

PATENTED FEB. 9, 1904.

F. A. WELLS.
SEED HULLER.

APPLICATION FILED DEC. 9, 1902.

NO MODEL.



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UNITED STATES PATENT OFFICE.

FRANK A. WELLS, OF FLORENCE, KANSAS.

SEED-HULLER.

SPECIFICATION forming part of Letters Patent No. 751,705, dated February 9, 1904.

Application filed December 9, 1902. Serial No. 134,556. (No model.)

To all whom it may concern:

Be it known that I, FRANK A. WELLS, a citizen of the United States, residing at Florence, in the county of Marion and State of Kansas, have invented certain new and useful Improvements in Seed-Hullers, of which the following is a full, clear, and exact description.

My invention while relating to seed-hullers is more particularly confined to the clamps used on the concave of the machine. Heretofore the clamps used on the concave of machines of this character have been found defective in that when they are screwed up on the outside of the concave they have a tendency to scrape and bind on the concave, thereby preventing the clamping of the concaves in a perfect arc.

The object of my invention is to construct a cheap, simple, yet effective clamp to be applied to the outside of the concave that will by reason of its construction center itself and draw the concave to a perfect arc; and with this and minor objects in view my invention consists in the parts and combination of parts, as will be hereinafter more fully set out.

In the drawings, Figure 1 is a detail vertical section of a cylinder and concave of a seed-huller. Fig. 2 is a front elevation of one section of my improved clamp.

In the drawings, 1 represents the usual cylinder mounted upon a shaft 2, said cylinder being provided with the usual knives 3.

4 is the concave, such as is ordinarily employed in machines of this character, especially machines such as are described in my patent No. 236,470, said concave, as will be understood, consisting of a series of stationary knives arranged in an arc.

5 represents my improved clamp formed in two sections and in an arc, said clamp having upturned ends 6 and a strengthening-rib 7, said rib extending from end to end of the clamp. Each clamp is provided at its inner end with an outwardly-extending lug 8, provided with a bolt-opening 9, said bolt-opening being on a line at right angles to the axis of the shaft 2, as will be readily seen from the drawings.

10 is a headed bolt on the end of which is

screwed a nut 11, said bolt being adapted to pass through the openings 9 in the lugs 8 and secured therein by means of a nut 11.

It will be seen that when the ends 6 of the clamps are secured to the top and bottom of the concave, as shown, and the bolt inserted in the openings in the lugs 8 said clamps can be drawn together by means of the bolt and nut referred to, and as the nut is screwed up on the bolt, thereby drawing the lugs 8 and the clamps together, said clamps will, by reason of the bolt being on a line at right angles to the axis of the cylinder, draw said clamps to form an arc corresponding to a proper arc of the concave. It will also be seen that by reason of the bolts and the lugs the adjacent ends of the clamps will not have a tendency to stick into or scrape on the concave. Another advantage of the construction and one that I have shown is that there is but a single bolt to be manipulated in adjusting the concaves and clamps, and, further, by reason of the construction and location of the lug 8 the operator is enabled to throw the wrench, tightening the nut one-half a circle, whereas in all other clamps there are a number of bolts to be adjusted, and by reason of the construction of these old clamps the wrench has only a movement of about one-fourth of a circle.

From the above it will be seen that I have provided a simple and effective clamp of the character set forth.

What I claim, and desire to secure by Letters Patent, is—

1. In a seed-huller, the combination with a plurality of knives, arranged in an arc and non-adjustable relatively to one another, of a clamp conforming to the arc of the knives, divided intermediate its ends to provide two members each having its outer end immovable relatively thereto and turned at an angle to the arc, and means connecting the inner ends of the two members of the clamp and movable to draw the turned ends of the members toward one another.

2. In a cotton-seed huller arranged in an arc, of a clamp comprising two members formed on the arc of the knives, an outwardly-ex-

tending lug integral with the adjacent ends of
said members, each lug having an opening
therethrough extending axially thereof, and
a bolt positioned in said opening to draw the
5 clamps toward each other, and simultaneously
clamp and position the knives in the proper
arc.

The foregoing specification signed this 4th
day of December, 1902.

FRANK A. WELLS.

In presence of—

JAMES F. SELLERS,
GEORGE ALBERT KENT.