

R. A. L. McCURDY.

Cotton Gin.

No. 13,131.

Patented June 26, 1855.

Fig: 1.

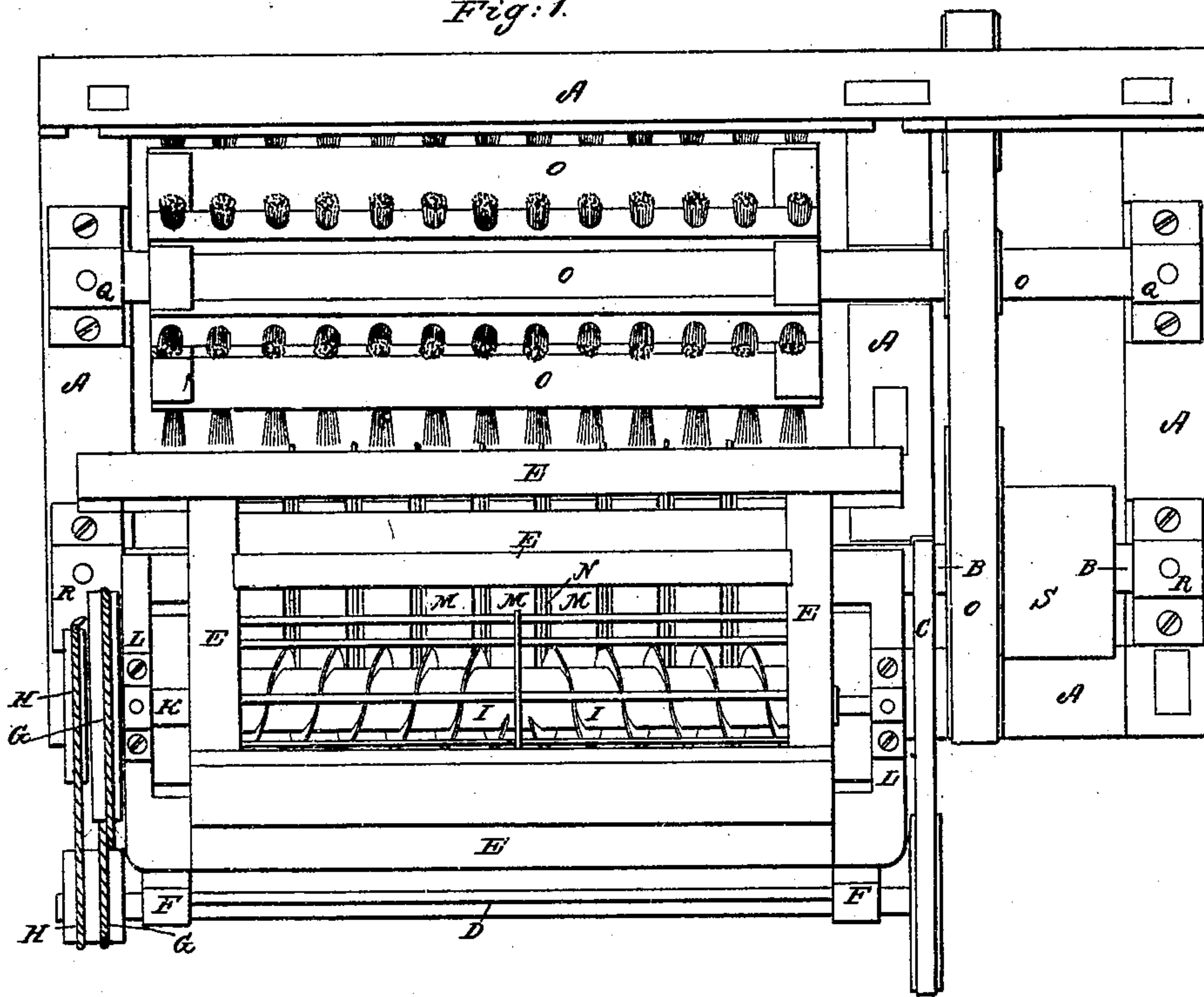
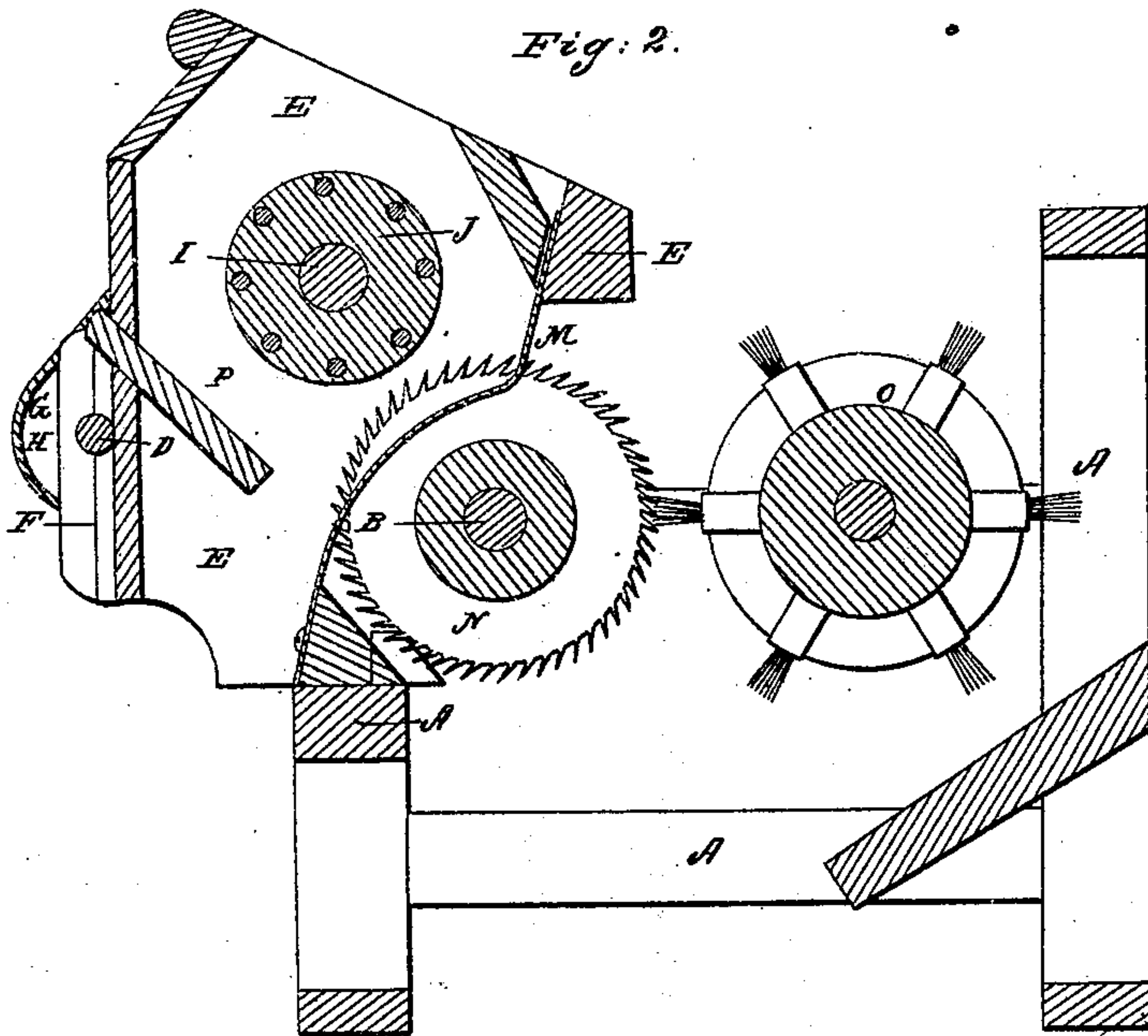


Fig: 2.



UNITED STATES PATENT OFFICE.

R. A. L. McCURDY, OF SABINE PARISH, LOUISIANA.

IMPROVEMENT IN COTTON-GINS.

Specification forming part of Letters Patent No. 13,131, dated June 26, 1855.

To all whom it may concern:

Be it known that I, R. A. L. McCURDY, of Sabine parish, State of Louisiana, have invented a new and useful Improvement on Cotton-Gins, the use of which is to separate the boll-hull from the cotton while ginning the same, or, rather, to carry them from the cotton-box, bearing the title of "R. A. L. McCurdy's Improved Eureka Gin-Stand;" and I do declare the following to be a full, and clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view, and Fig. 2 an end elevation.

The nature of my improvement consists in placing a cylinder-screen suitably spaced, being seven-eighths of one inch apart in the roll or cotton-box, so as to be one and three-fourths inch from the saws and three and one-fourth inches from front part of box-screen, six and three-fourths inches diameter. (Shown at J, Fig. 2.) In the center of this screen is arranged a shaft spirally flanged (four and one-half inches in diameter) from the middle each way to ends of same, as shown at I, Fig. 1. The screen is for the reception of the boll-hulls, the flanged shaft to clear the inside of said screen.

The like letters refer to corresponding parts.

To enable others skilled in the art to make and use my invention, I will proceed to describe the construction and operation of the same.

I construct my frame A, Fig. 1—N, the saws; M, the ribs; O, the brush and gearing; Q, the brush-boxes; R, the saw-boxes; S, the driving-pulley; B, the main or saw shaft—in the usual manner. From the main shaft B, I run a belt, C, driving a counter-shaft, D, the reverse end of which is connected by cross-belt, friction, or gear wheels with the screen J, as

shown at G. The counter-shaft is connected by belt or gear wheels with the flanged shaft I, as shown at H. K is a hollow shaft and partition of screen-head. Through the center of this shaft the flanged cylinder I works. L represents the bearings of screen and flanged shaft; F, the bearings of counter-shaft. The power being applied at S gives the saws the proper motion; and by means of the gearing heretofore described the cylinder-screen and flanged shaft are put in motion, the screen revolving in the same direction as the roll. If is cotton in the box. The cotton being put into the gin, the saws separate the hull from the cotton, and, as there is not room for them to pass out of the gin with the seed, are naturally thrown to the center of the box, (until in the common gin it becomes full, when the ginner must empty it, which is about every fifteen minutes,) where the screen receives them. Then the flanged shaft operates on and conveys them out at the end of the box. To make it more effective its motion is reversed. The seed, being heavy and meeting with no obstruction, pass from the gin between the saws in the common way. What I claim to do is to carry out the hulls by the screen and conveyer with the motion of the gin, thereby effecting a great saving of time and labor and improving the sample.

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

The cylinder-screen for the reception of the boll-hulls, &c., and the continued spiral-flanged shaft arranged inside of said cylinder-screen, as heretofore explained, for the purpose of working out said boll-hulls, &c., as heretofore explained, or otherwise substantially the same, and that will produce the intended effect.

R. A. L. McCURDY.

Witnesses:

G. W. GOSS,
W. DRURY.