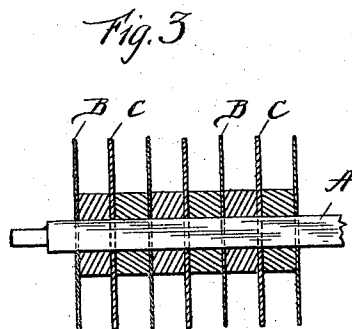
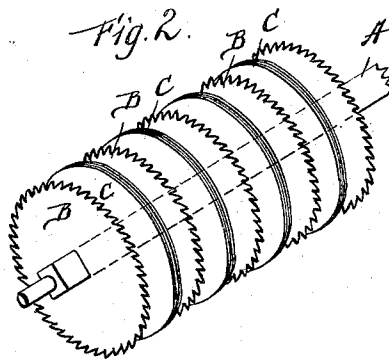
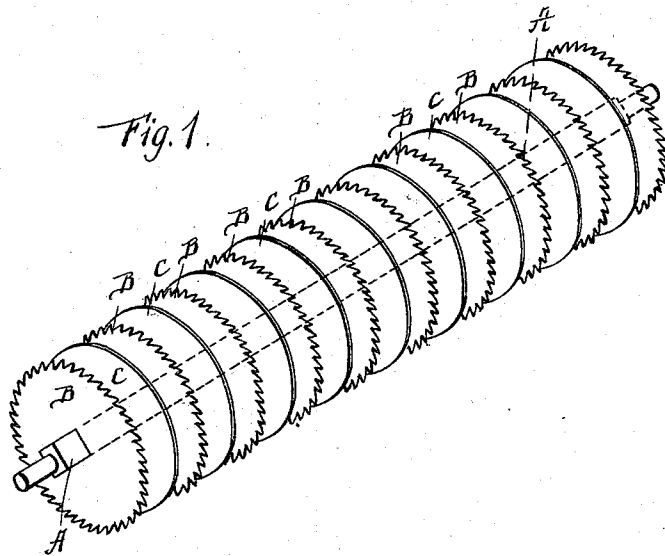


(No Model.)

J. A. MAXWELL.
SAW COTTON GIN.

No. 541,868.

Patented July 2, 1895.



WITNESSES

Geo. M. Anderson
Philip Masi.

INVENTOR

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his Attorney

UNITED STATES PATENT OFFICE.

JOHN A. MAXWELL, OF CALVARY, GEORGIA.

SAW COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 541,868, dated July 2, 1895.

Application filed September 1, 1894. Serial No. 521,953. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. MAXWELL, a citizen of the United States, residing at Calvary, in the county of Decatur and State of Georgia, have invented certain new and useful Improvements in Saw Cotton-Gins; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view of my invention. Fig. 2 is a perspective of a portion of the saw shaft showing a modification. Fig. 3 is a central section of a portion of the saw shaft.

This invention has relation to certain new and useful improvements in saw cotton gins; the object being to provide a gin especially designed for ginning cotton having a long staple, and which will be so arranged that the staple is prevented from being cut or injured by the saws.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described and pointed out in the appended claim.

In carrying out my invention, which is applicable to most of the saw gins as commonly constructed, I provide a saw shaft or shafts A carrying a series of ordinary saws B, which are spaced from each other on the shaft at intervals considerably greater than in the or-

dinary arrangement. Between each pair of these saws I place one or more untoothed disks or plates C, having plain peripheral edges. The purpose of the disks is to support the staple or fiber between the saws, each saw acting independently upon its own mass or part of the cotton. The staple is therefore ginned and carried through the ribs without being broken or injured.

It is essential that the untoothed disks or plates shall be of the same, or very nearly the same diameter as the saws in order to properly support the staple.

When two of the untoothed plates are employed, as illustrated, they are set comparatively close to each other.

A rib will be employed between each saw and its adjacent disks.

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

In a saw cotton gin, the combination with the saw shaft having a series of circular continuously toothed saws thereon, of a series of circular untoothed disks one or more of which is located between each two adjacent saws, and which are each of substantially the same diameter as the saws, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN A. MAXWELL.

Witnesses:

M. A. GODWIN,
J. C. CHASON.