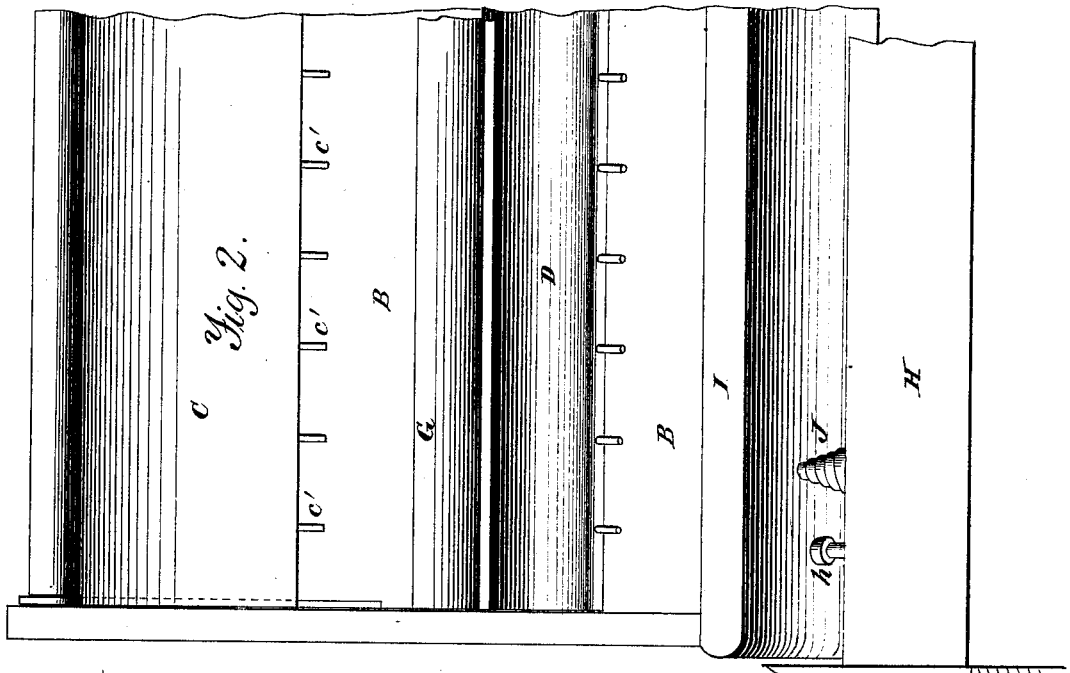
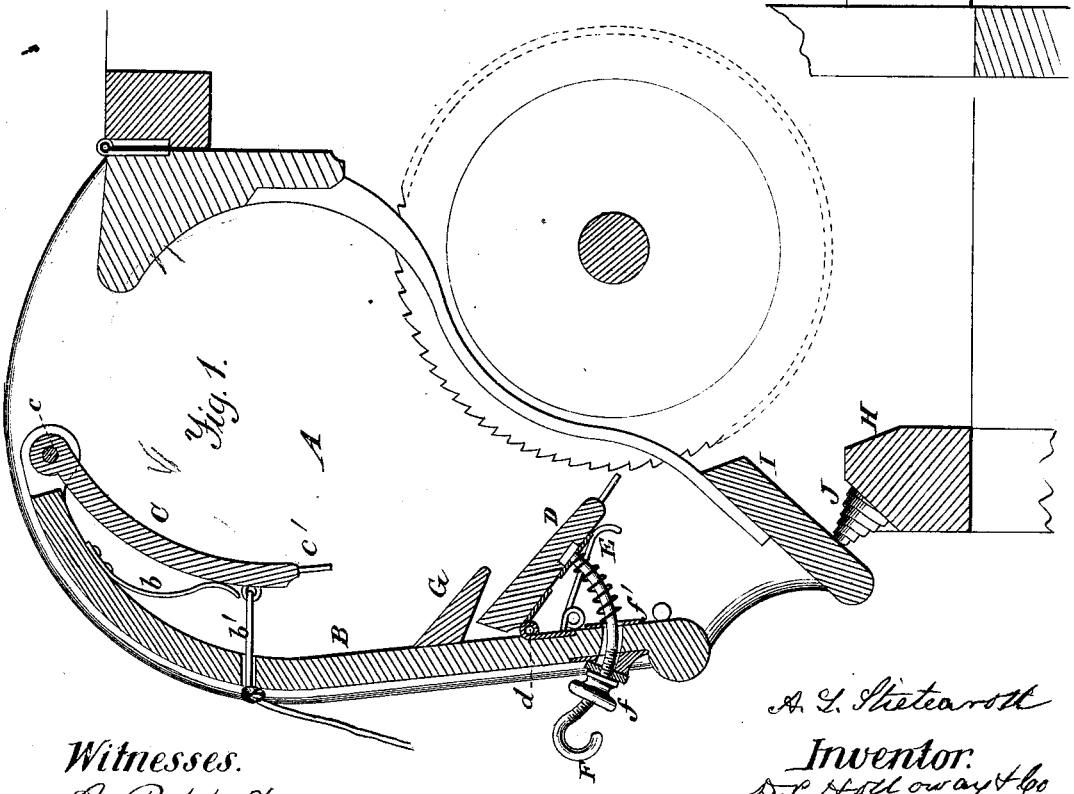
A. L. STIETENROTH.

Cotton-Gin.

No. 200,776. Patented Feb. 26, 1878.





Witnesses.

A. Ryckert

J. G. Mason.

A. L. Stietenroth

Inventor.

D. P. Holloway & Co

Atty

UNITED STATES PATENT OFFICE.

ANDREW L. STIETENROTH, OF NATCHEZ, MISSISSIPPI, ASSIGNOR OF ONE-HALF HIS RIGHT TO FRED. J. V. LE CAUD, OF SAME PLACE.

IMPROVEMENT IN COTTON-GINS.

Specification forming part of Letters Patent No. **200,776**, dated February 26, 1878; application filed October 22, 1877.

To all whom it may concern:

Be it known that I, ANDREW L. STIETENROTH, of Natchez, in the county of Adams and State of Mississippi, have invented a new and useful Improvement in Cotton-Gins, of which the following is a full, clear, and exact description.

This invention relates to that class of cotton-gins in which the seed-cotton is operated upon by circular saws.

My improvement consists in providing novel devices with which to adjust the angle of the seed-board in relation to the saws of the gin, and in providing a means to protect said seed-board from strain at its point of junction with the breast-board.

In the drawings, Figure 1 is a vertical section of so much of a cotton-gin as to illustrate my improvement. Fig. 2 is an interior elevation of the ginning-chamber, showing the breast-board and parts connected therewith.

The same letters of reference indicate identical parts in both the figures.

A is the feed or ginning chamber, its upper part being, as is usual in such machines, nearly cylindrical, so that the seed-cotton will more readily form into a roll as it is fed to and operated upon by the saw. B is the breast-board, of the usual form, to which a curved presser-board, C, is hinged at *c*, and held in the desired position by the spring *b* and cord *b'*. The office of this presser-board is to firmly, but yieldingly, press the cotton-roll against the saws, and if, from any cause, such as the packing of the roll, there is a tendency to bind, the yielding of the spring *b* will automatically relieve the pressure of the roll upon the saws.

The presser-board C is provided at its lower edge with fingers *c'*, placed in line between the saws, which act as guides for the roll.

D is the seed-board, hinged at *d* to the breast-board B. This seed-board serves to keep the roll from working below the saws, and is provided with fingers, placed in line with or between the saws, as desired. Its pitch or angle in relation to the saws is made adjustable by means of springs E (two forms being shown in the drawings) and curved rods or hooks F, provided with a screw-thread and a nut, *f*. These rods are attached to the seed-board, and work through slots *f'* in the breast-board, the nuts serving to depress the seed-board, and the springs E to elevate the same when the nuts are unscrewed.

It will be readily seen that, instead of the springs, other means may be used to elevate the seed-board—as, for instance, a nut on each side of the breast-board.

Above the seed-board, and rigidly attached to the breast-board, is a guard-board, G, whose purpose is to relieve the seed-board from the strain to which it would necessarily be subjected were it to receive the weight of the cotton-roll upon the full extent of its surface.

In the usual form of these machines there are upon the rail H set-screws *h*, upon which the fall or bottom-board I rests. I place springs J, of any suitable form, upon the rail, and near said set-screws, to provide a yielding support for said fall I, that it may more readily receive a vibratory motion from the jar of the machine, and thus assist in the discharge of the seeds.

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

1. In a cotton-gin, the combination, substantially as specified, of the guard-board, the adjustable seed-board underneath it, and the saw.

2. The combination, substantially as specified, of the seed-board, the hooks or rods, the thumb-nuts, and the springs or their equivalents.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

A. L. STIETENROTH.

Witnesses:

W. J. CARROLL,

JAMES O'CAVANAUGH.