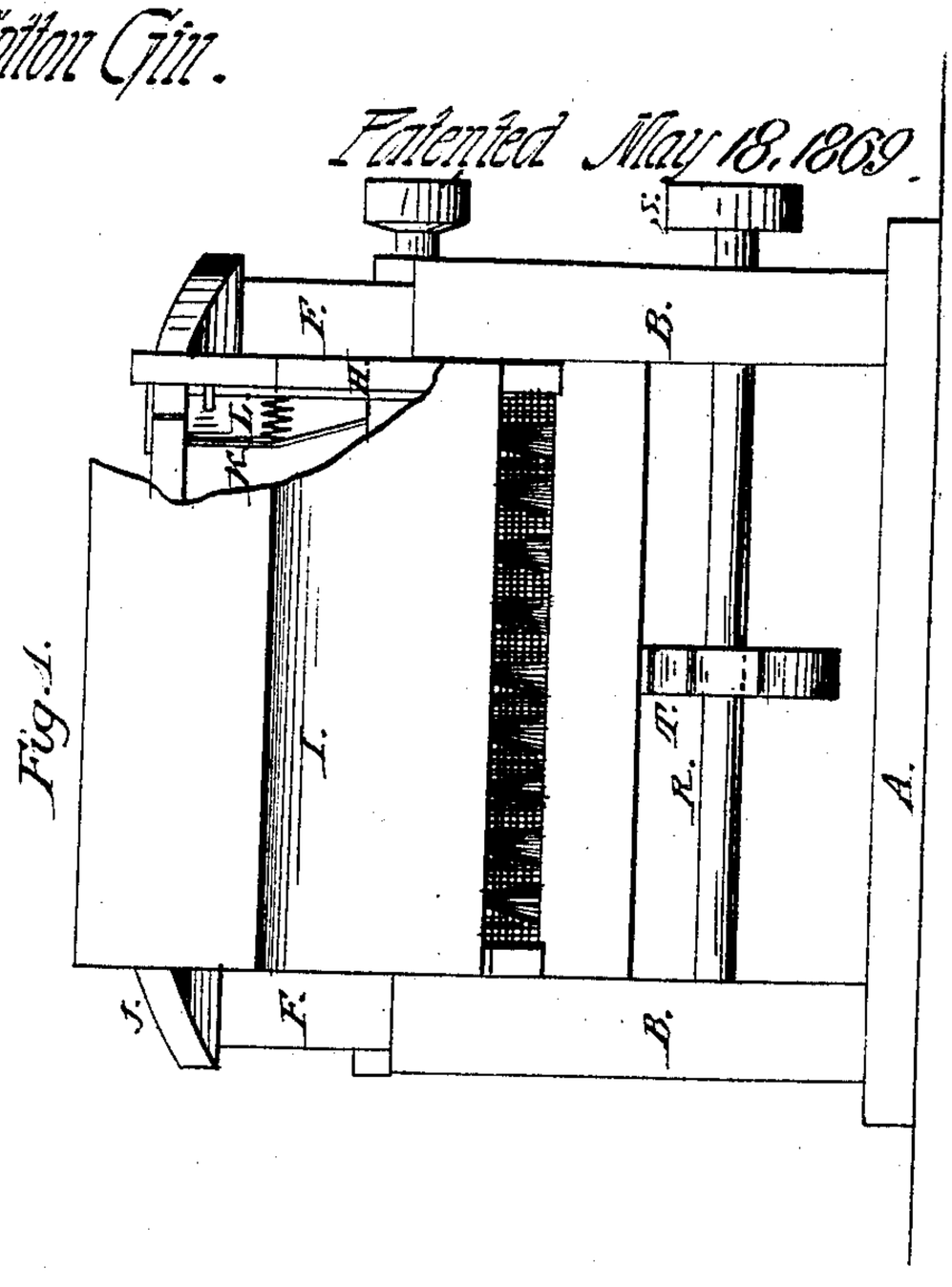
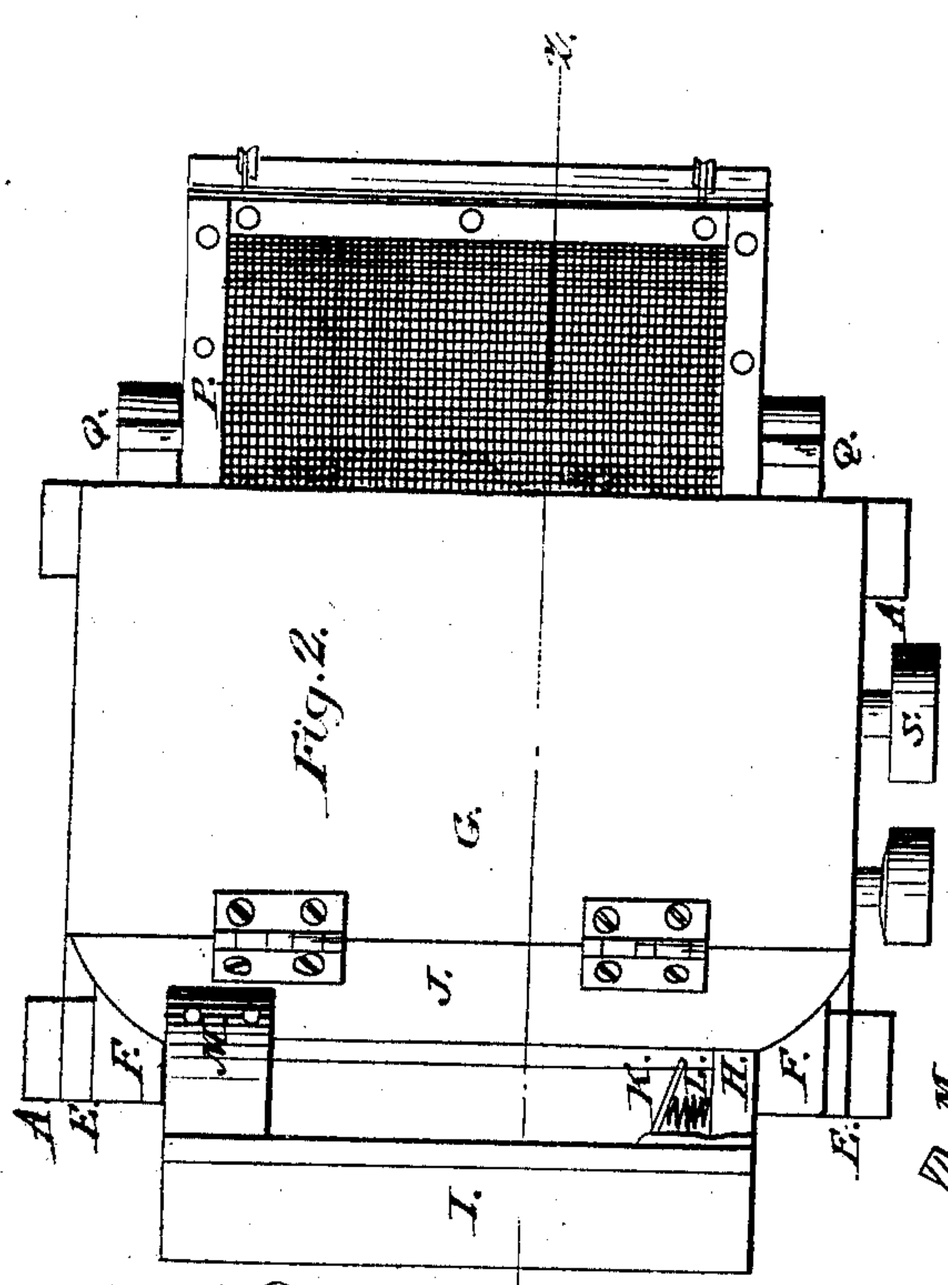
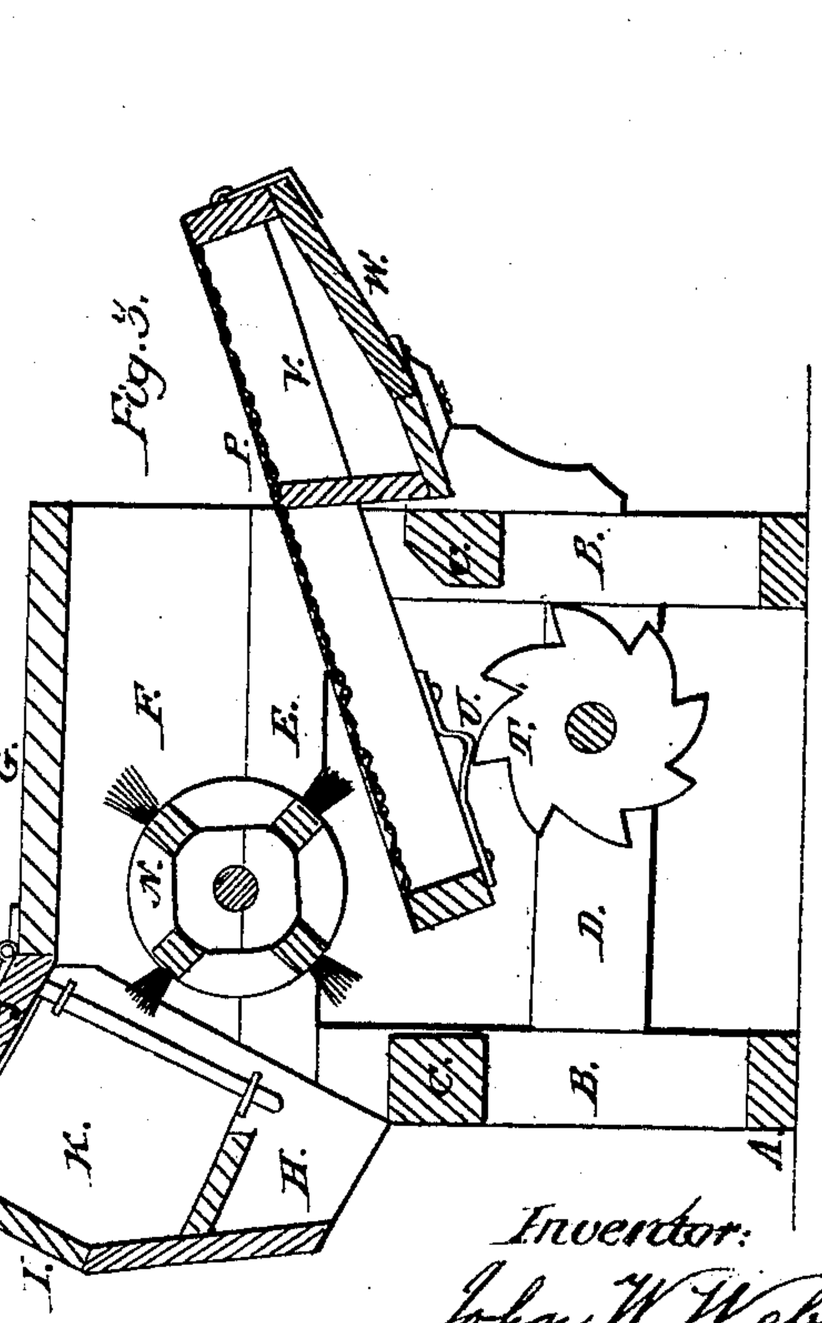
J. W. Webb.

Cotton Gin.

No. 90,210. Patented May 18, 1869.







Witnesses:
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United States Patent Office.

JOHN W. WEBB, OF COTTON VALLEY, ALABAMA.

Letters Patent No. 90,210, *dated May* 18, 1869.

IMPROVEMENT IN COTTON-GINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN W. WEBB, of Cotton Valley, Macon county, in the State of Alabama, have invented certain new and useful Improvements in Cotton-Gins; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.

The nature or essence of my invention consists in arranging, under and behind the brush-cylinder, an inclined perforated moat-board or screen of woven wire, with meshes so small that the cotton will pass over the screen, while the dirt, sand, and other substances pass through the screen and are separated from the cotton; and in vibrating or agitating the perforated moat-board or screen, by means of a rotating cam-toothed wheel and shoe, to give the screen a jogging motion and shake the dirt through the screen; also, in arranging some movable vibrating ends in the feed-box, pressed towards each other by springs, so as to yield when the roll of cotton is large and to press it together, and prevent it from breaking when it is small.

In the accompanying drawings I have shown as much of a cotton-gin as is requisite to show the application of my improvements.

Figure 1 is a front elévation of a cotton-gin.

Figure 2 is a plan or top view.

Figure 3 is a section on the line *z z* of fig. 2.

In these drawings, A A are the sills in which the posts B B are fastened, which posts are connected by the girders C C and D D, and by the top bars E E, making a strong frame, to which the other parts are fastened or connected.

The top case or cover consists of the ends F F and top board G, to which the feed-box is hinged, which feed-box consists of the ends H H and front I, with top piece J, by which it is hinged to the top board G, as shown in fig. 2, so that it may be turned up when required.

Near the back edges of the ends H, I hinge the inside movable ends K K, so as to vibrate or swing towards or from each other, and arrange the springs L behind them, to press them toward the centre, as shown in fig. 1, where the front is broken away, to show the end K and spring L, and in fig. 2, the plate M is also broken away to show the end and spring.

The object and purpose of these vibrating ends is to yield when the roll of cotton being ginned is full, and let the roll expand, and as the roll of cotton decreases, the springs press the vibrating ends in, and press the roll of cotton together, to prevent its breaking so soon as it otherwise would do.

N is the brush-cylinder which takes the cotton from the saw-teeth, and throws or blows it out of the rear of the machine into a lint-room.

Under the brush N, I arrange the inclined perforated moat-board or woven-wire screen P, and extend it back to or beyond the rear of the gin, and hang it on pivots Q Q, which turn in brackets fastened to the rear posts of the gin.

The object and purpose of this perforated moat-board is to screen out the sand, dirt, and any foreign substances small enough to pass through the perforations in the board; and to increase its effectiveness, I make it to vibrate with a jolting motion by means of the shaft R, turned by a belt from some part of the machine to the pulley S, to turn the shaft and cam-toothed wheel T, which acts on the shoe U, fastened to the under side of the moat-board or screen-frame, and lifts it and lets it fall alternately to shake any matter through the perforations that are small enough to pass through; and under the rear part of this screen P, I make a box or receptacle, V, to receive the dirt, sand, &c., with a door, W, in the bottom, which may be opened to remove whatever may collect therein.

What I claim as my invention and improvements in cotton-gins, is—

In combination with a saw-cylinder and brush of a cotton-gin, a woven-wire moat-board, arranged and agitated substantially as described.

Also, the movable vibrating ends in the breast or feed-box, pressed towards each other by springs or their equivalents, substantially as described, for the purpose set forth.

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Witnesses:

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