J. W. WEBB.

COTTON-GIN FEEDER.

No. 176,908. Patented May 2, 1876.

Fig. 1.

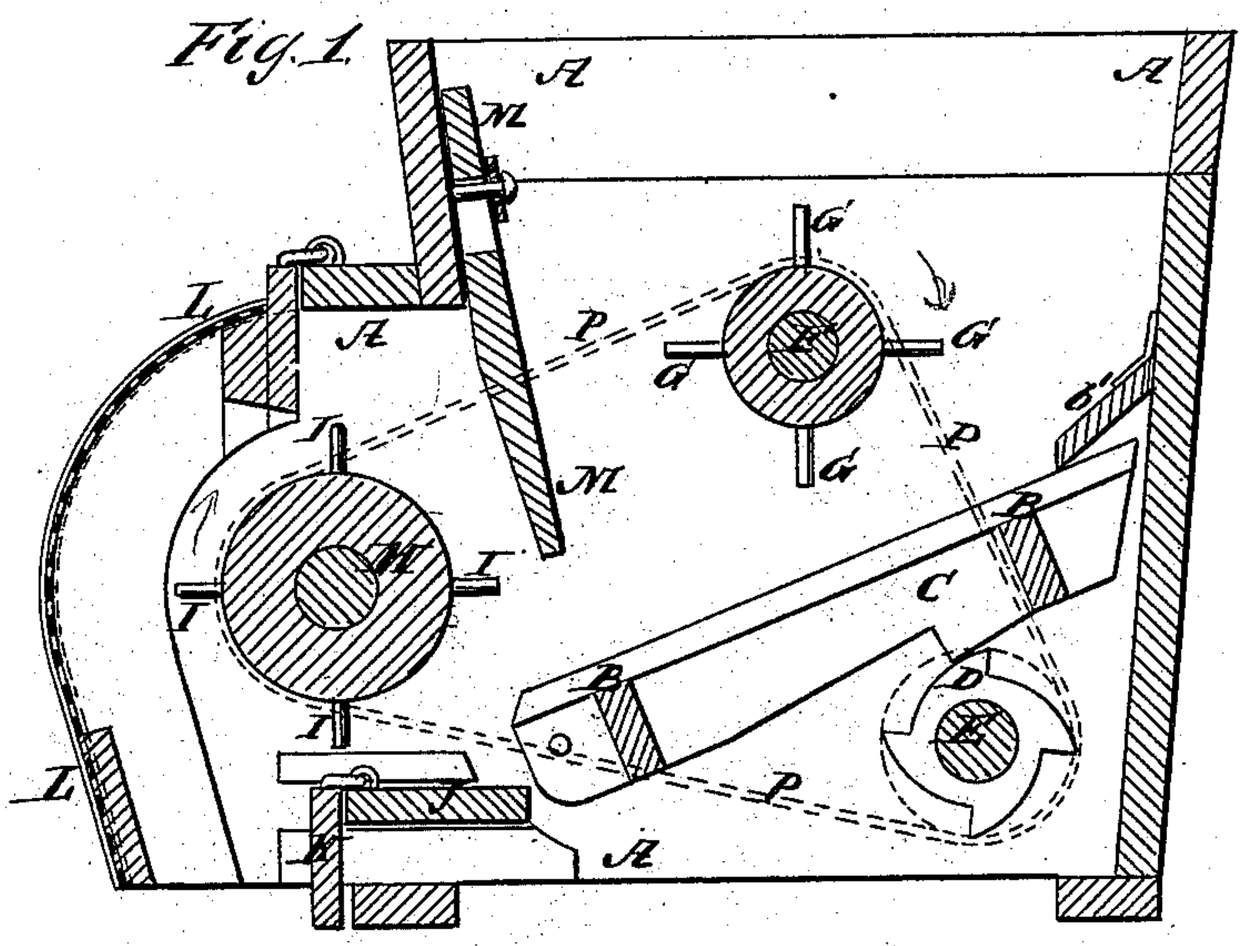
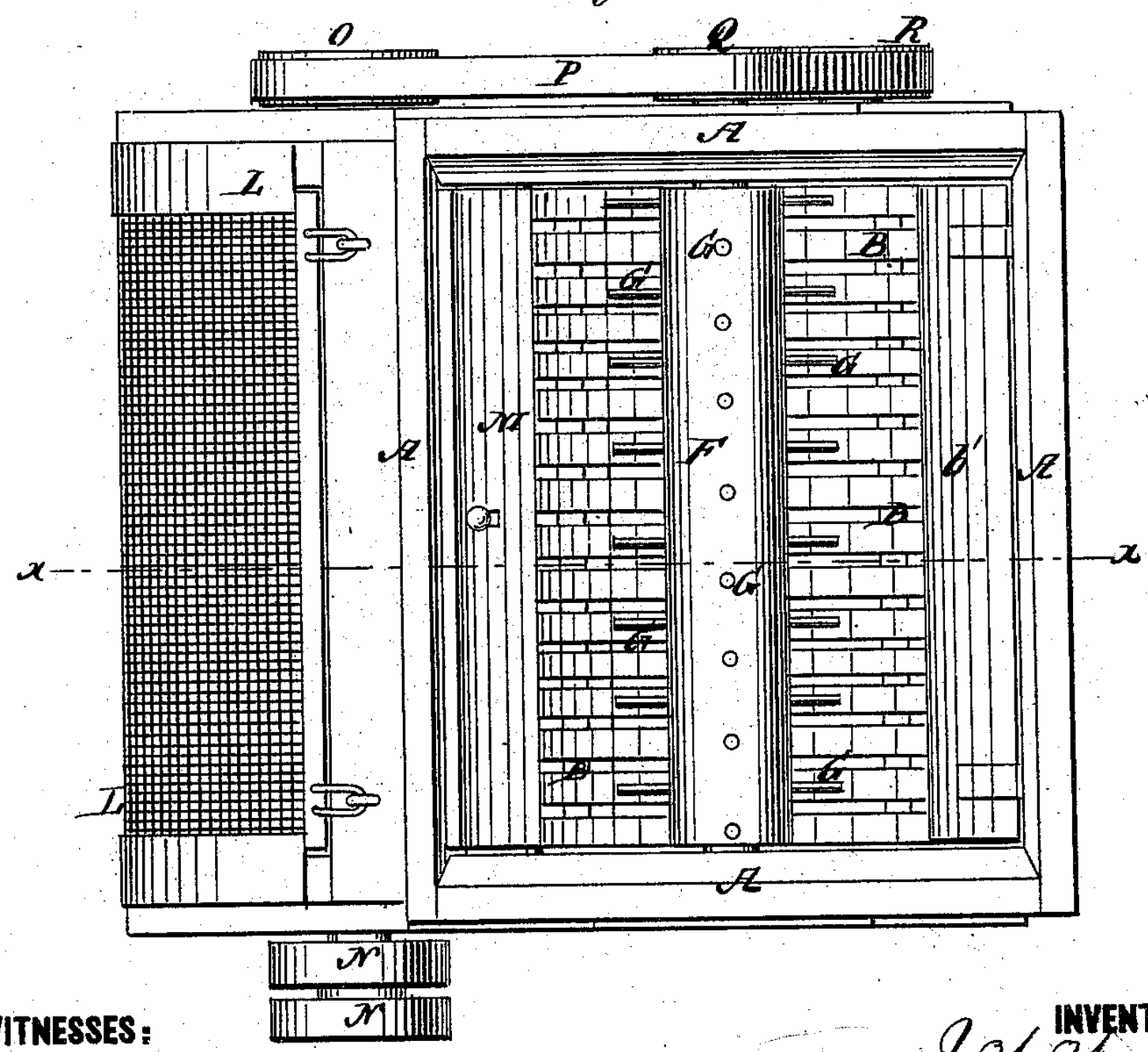


Fig. 2.



WITNESSES:

E. Wolff.

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UNITED STATES PATENT OFFICE.

JOHN W. WEBB, OF UNION SPRINGS, ALABAMA.

IMPROVEMENT IN COTTON-GIN FEEDERS.

Specification forming part of Letters Patent No. **176,908**, dated May 2, 1876; application filed February 28, 1876.

To all whom it may concern:

Be it known that I, JOHN WESLEY WEBB, of Union Springs, in the county of Bullock and State of Alabama, have invented a new and useful Improvement in Cotton-Gin Feeders, of which the following is a specification:

Figure 1 is a vertical section of my improved machine, taken through the line *x x*, Fig. 2; and Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for feeding cotton regularly to a gin, and which shall be so constructed as to allow sand and other hard substances to drop out.

The invention consists in the cam and its shaft, the pivoted rack, provided with a shouldered bar, the two shafts, provided with radial pins, and the adjustable guard-board, constructed and arranged as hereinafter fully described.

A represents the box or case of the machine, to the forward lower part of the sides of which are pivoted the forward corners of a rack, B. The rear edge of the rack B rests against the rear side of the box A, at a higher elevation than its lower edge, to give the said rack a downward inclination forward. The upper or rear edge of the rack B is covered with a board, *b'*, the upper edge of which is hinged to the case A, and which prevents the cotton from getting between the rack and case when the said rack is jarred. The slats of the rack B, which may be made of wood or wires, are placed at such a distance apart that sand and other hard substances may drop through it, and to the under side of said rack is attached a bar, C, having a shoulder formed upon the forward part of its lower edge, to rest upon the face of the cam-wheel D, attached to the shaft E, the journals of which revolve in bearings attached to the rear lower part of the sides of the case A. F is a shaft, provided with numerous radial pins, G, to feed the cotton down to and down along the rack B.

In bearings attached to the forward part of the sides of the case A revolve the journals of the shaft H, which is provided with numerous radial pins, I, to feed the cotton to the gin.

The cotton passes from the rack B to the gin over the apron J, the ends of which are slid into grooves in the sides of the case A, and to the forward edge of which is hinged a flap, K.

The cylinder or shaft H is covered with a cover, L, made of wire-gauze or other suitable material, and which is hinged at its upper edge to the case A. M is a board, which projects downward in the rear of the shaft H, to prevent any cotton from passing over said shaft H, and to regulate the feed. The board M is slotted to receive the bolt or bolts by which it is secured in place, so as to be adjusted as may be required.

To one of the journals of the shaft H is attached a fast and loose pulley, N, to receive a belt from the gin-saw shaft, for driving the said shaft. To the other journal of the shaft H is attached a pulley, O, around which passes a belt, P, which also passes around the pulleys Q R, attached to the journals of the shafts F E, so that the said shafts may be driven from the shaft H.

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

The shaft E, provided with the cam D, the pivoted rack B, provided with a shouldered bar, C, the shafts F and H, provided with the radial pins I, and the adjustable guard-board M, constructed and arranged, in relation to each other and the case A, substantially as and for the purpose herein shown and described.

J. W. WEBB.

Witnesses:

WM. YOUNGBLOOD,

J. F. FAY.