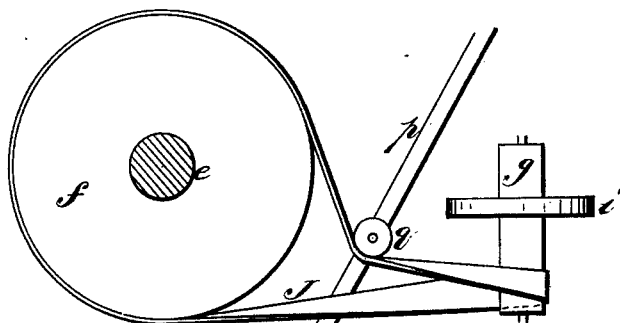
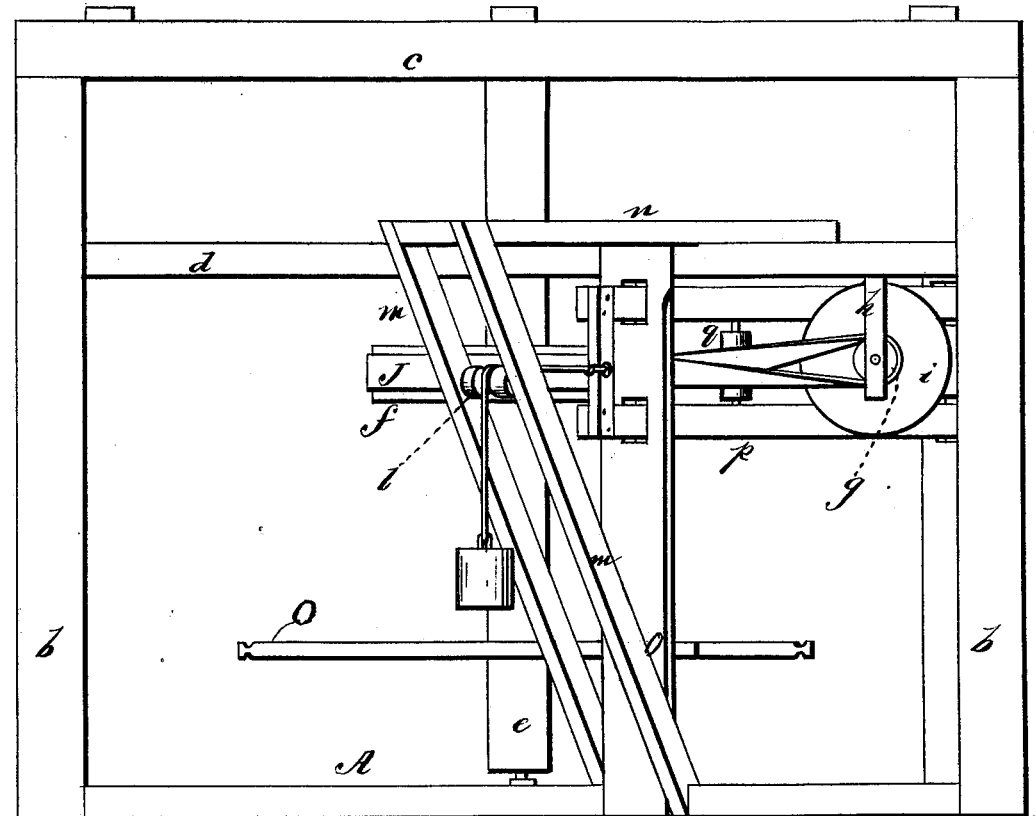


J. F. MEANS.  
Cotton-Gin.

No. 220,854.

Patented Oct. 21, 1879.

*Fig 1.*



WITNESSES  
*Robert Smith*  
*James J. Sheehy*

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*John F. Means*  
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# UNITED STATES PATENT OFFICE.

JOHN F. MEANS, OF THOMASTON, GEORGIA.

## IMPROVEMENT IN COTTON-GINS.

Specification forming part of Letters Patent No. **220,854**, dated October 21, 1879; application filed August 2, 1879.

*To all whom it may concern:*

Be it known that I, JOHN F. MEANS, of Thomaston, in the county of Upson and State of Georgia, have invented certain new and useful Improvements in Cotton-Gins; and I do hereby declare that the following is a full, 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a face of my cotton-gin, and Fig. 2 is a detail view of the same.

This invention relates to cotton-gins; and it consists in the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

Let *A* represent the base of a frame composed, essentially, of the uprights *b*, cross-bars *c*, and an elevated platform, *d*. The main rotary and vertical shaft *e* carries a pulley-wheel, *f*, and a smaller horizontal shaft, *g*, which is journaled in the bearing-pieces *h*, and is provided with a pulley-wheel, *i*.

*J* designates an endless belt, which passes round the wheel *f* and the horizontal shaft *g*. The devices for giving a proper tension to this belt are as follows: Two timbers are each secured to the platform and base of the frame, and through suitable guide-openings in the same the two side bars of a sliding frame, *p*,

are passed. This frame carries a short rotary roll or wheel, *q*, which, when the frame is moved in one direction, bears upon the belt, and hence gives the same the requisite tension.

In order to regulate the tension so that it shall be equal at all times, I suspend a weight upon one end of a rope, which is secured to the sliding frame, and thence passes over a roller or wheel, *l*. This latter roll or wheel is journaled between the inclined bars *m*, which are secured at their lower ends to the base of the frame, and at their upper ends to a projecting timber, *n*.

*O* represents a frame upon the main vertical shaft, and this frame has projecting handles or bars, whereby the shaft may be worked either by horse or man power.

What I claim is—

In a cotton-gin, the combination of the sliding frame *p*, carrying the roller *q*, with the vertical shaft *e*, carrying the pulley *f*, the shaft *g*, carrying the wheel *i*, the endless belt *J*, the frame *m*, having roller *l*, and the cord and weight, as shown and described, for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN FRANCIS MEANS.

Witnesses:

J. M. JONES,  
L. S. MERRILL.