

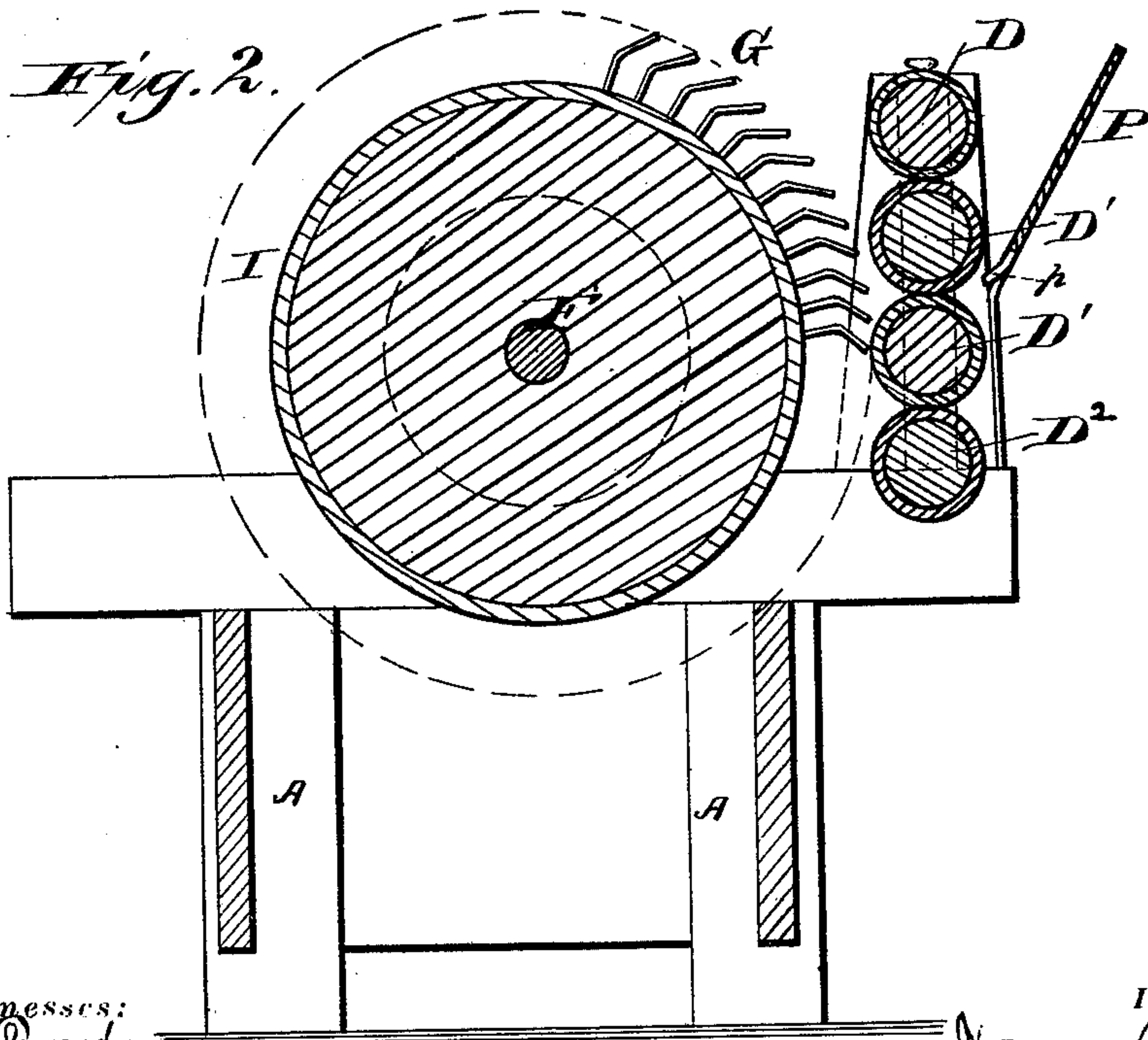
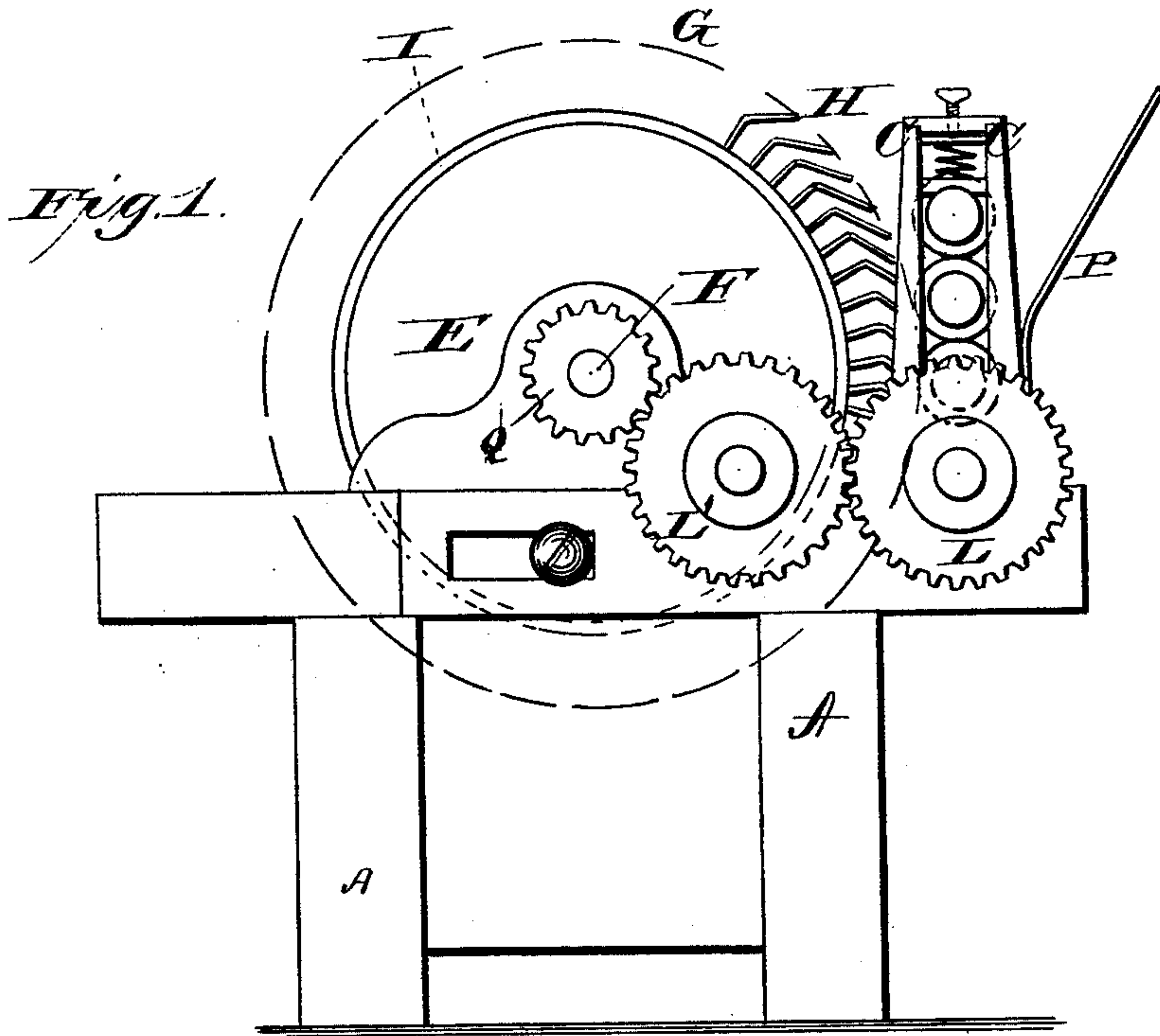
(No Model.)

2 Sheets--Sheet 1.

J. WRIGHT.  
Carding Attachment for Cotton Gins.

No. 233,313.

Patented Oct. 12, 1880.



Witnesses:  
A. L. Ormrod  
E. H. Bradford

Inventor:  
James Wright  
By Hill & Church  
His Attys.



(No Model.)

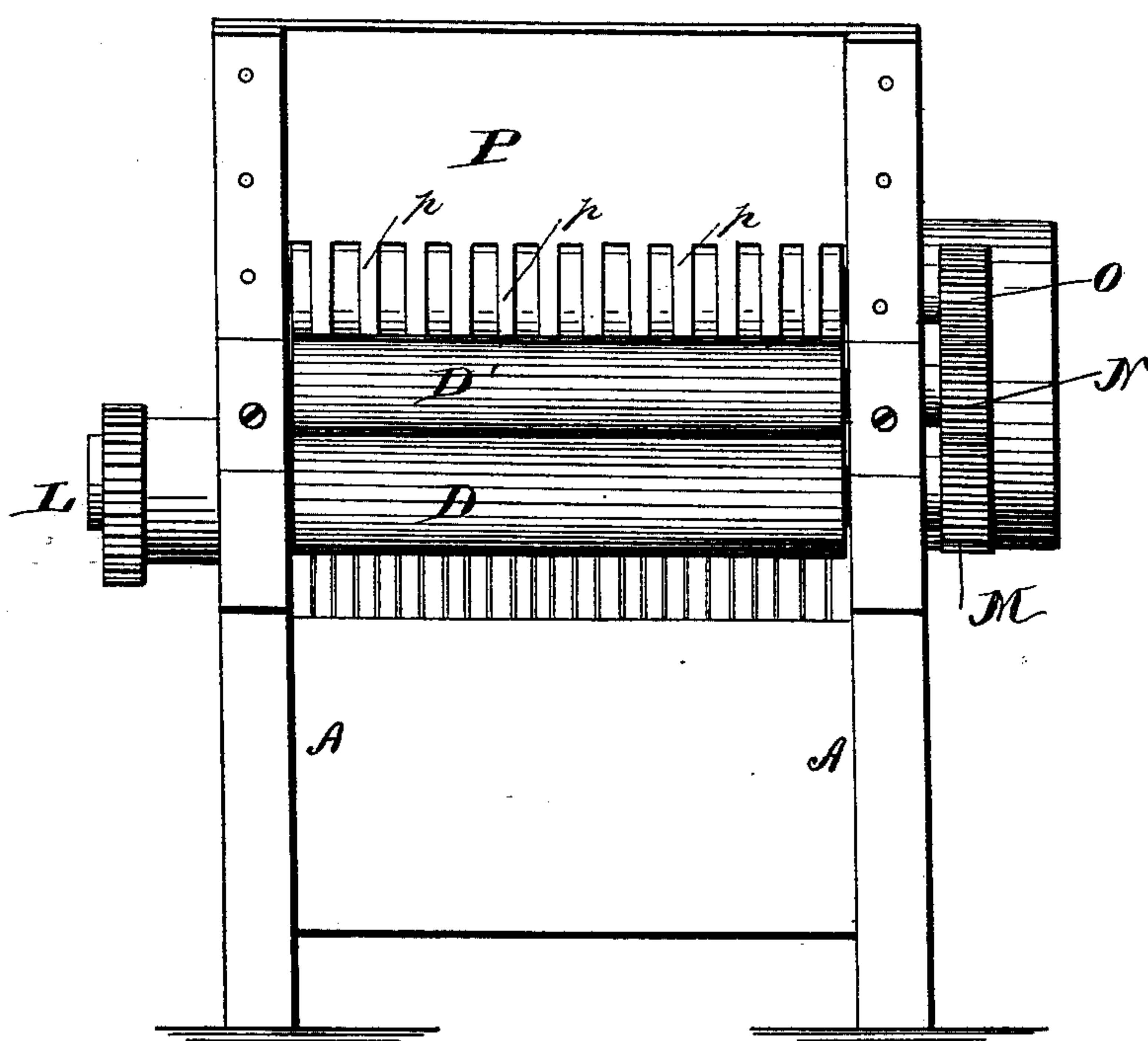
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*Fig. 3.*



WITNESSES

*F. L. Curran*  
*E. H. Bradford*

INVENTOR

*James Wright*  
By *Hill & Church*  
His ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JAMES WRIGHT, OF JACKSON, TENNESSEE, ASSIGNOR TO THE NEW ERA COTTON MANUFACTURING COMPANY.

## CARDING ATTACHMENT FOR COTTON-GINS.

SPECIFICATION forming part of Letters Patent No. 233,313, dated October 12, 1880.

Application filed May 3, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES WRIGHT, a citizen of the United States, residing at Jackson, in the county of Madison and State of Tennessee, have invented certain new and useful Improvements in Carding Attachments for Cotton-Gins; and I do hereby declare the following to be a full and exact description of the same, which will enable others skilled in the art to which the invention appertains to make and use the same, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, forming part of this specification.

This invention relates to improvements in carding attachments for cotton-gins; and it consists in a novel construction and arrangement of mechanism for separating the seeds from the fibrous portions of the cotton and feeding the latter to the carding-cylinder, all as I will now proceed to describe.

In the drawings, Figure 1 represents a side elevation of a machine constructed in accordance with my invention; Fig. 2, a sectional view of the same, and Fig. 3 a front view.

Similar letters of reference in the several figures indicate the same parts.

A represents the frame of the machine, having boxes or bearings E, for the reception and support of the shaft F of an ordinary carding-cylinder, G. The carding-cylinder is provided with card-teeth H, inserted in a backing, I, of leather or other like material, in the usual manner.

At one end of the frame, and in front of the carding-cylinder, are located vertical standards or guides C C, in which are journaled four rolls, D D<sup>2</sup> and D' D', the two former being at the top and bottom, respectively, and the two latter arranged between them. One of the journals of the lower roll, D<sup>2</sup>, is extended out beyond the ends of the other rolls, and carries a gear-wheel, L, which meshes with another gear-wheel, L', driven by a pinion, Q, on the shaft of the carding-cylinder. The opposite end of the lower roll, D<sup>2</sup>, is provided with a pinion, M, which meshes with a pinion, N, on the lower roll, D', and the latter pinion, in turn, meshes with a pinion, O, on the upper roll, D'. The top roll, D, is not geared

at either end, but simply rests upon the upper roll D', and revolves therewith by frictional contact, and operates as a press-roll. Springs or weights are preferably applied to its journals to increase the pressure on the drawing-rolls D' D' below.

P indicates an inclined plate arranged in front of the tier of rolls, and extending from side to side of the frame. It is provided at its lower edge with a series of spring arms or fingers, p, which are curved inward slightly and terminate a little above the point of contact of the two rolls D' D'.

The operation of the machine is as follows: The cotton being fed into the hopper formed by the inclined plate P and the tier of rolls, its fibrous or flocculent portions are seized by the rollers D' D', separated from the seeds, and carried through to the carding-cylinder, leaving the seeds to fall out between the yielding spring-fingers p, and preferably into a receptacle placed in front of the machine to receive them.

For the purpose of enabling the rolls to better seize hold of the fibrous portions of the cotton, they are preferably covered with leather, rubber, or other similar elastic material, in a manner well known in the art.

This invention is designed for use in connection with the gin-feeding machine for which Letters Patent No. 172,680 were issued to myself and J. C. Smith, Jr., January 25, 1876, and also in connection with the attachment for carding-engines for which Letters Patent No. 179,834 were issued to myself and the said Smith, July 11, 1876.

Having thus described my invention, I claim as new—

The combination, with the carding-cylinder and the tier of rolls D D' D' D<sup>2</sup>, of the inclined plate P, forming the front side of the feed-hopper, and having a series of curved springy separating-fingers, which operate to guide the cotton between the drawing-rolls D' D', and also permit the escape of the seeds, substantially as described.

JAMES WRIGHT.

Witnesses:

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M. CHURCH,