

(No Model.)

G. L. ROLLINS.

COTTON GIN.

No. 328,067.

Patented Oct. 13, 1885.

FIG. 1.

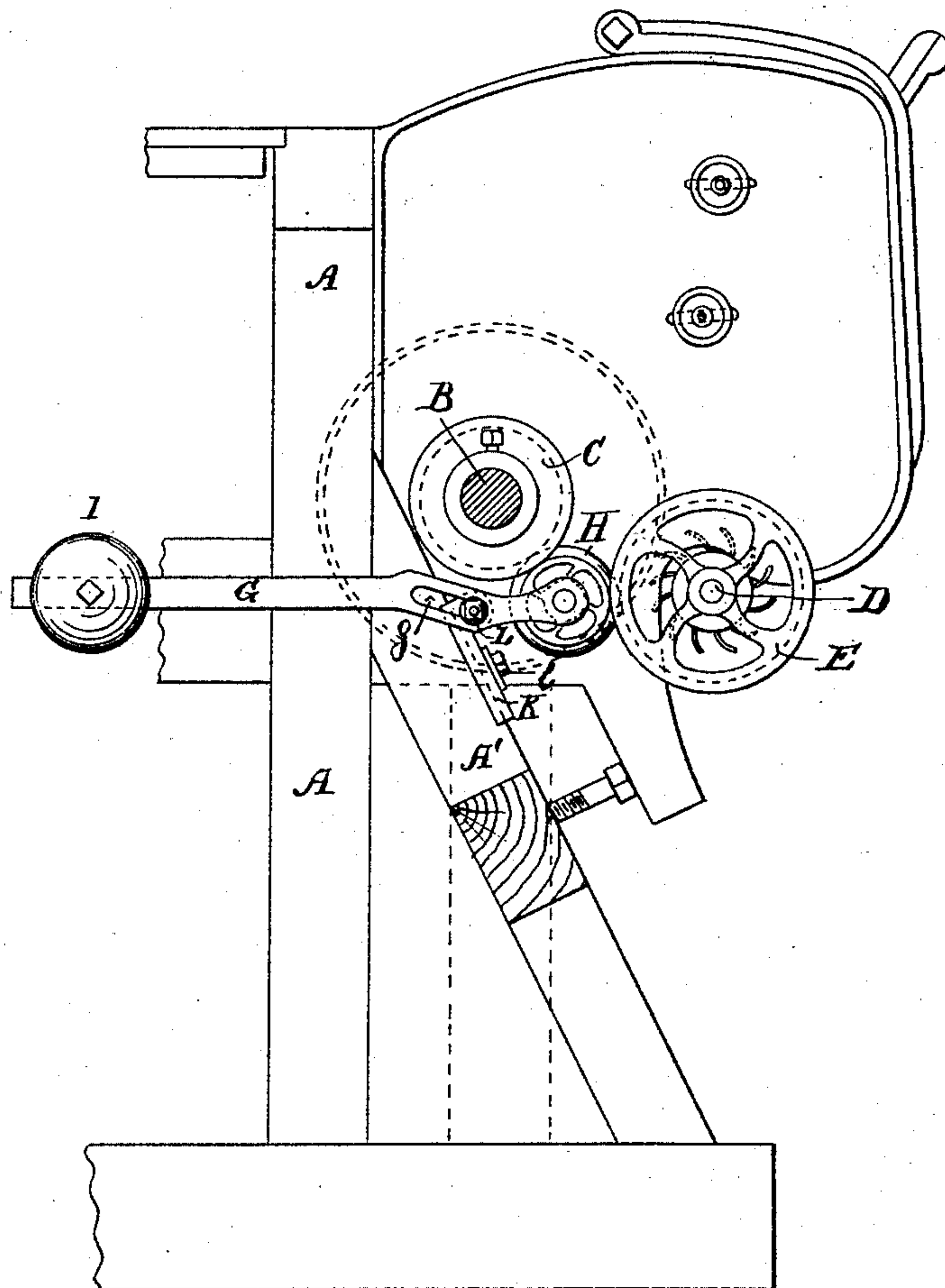


FIG. 3.

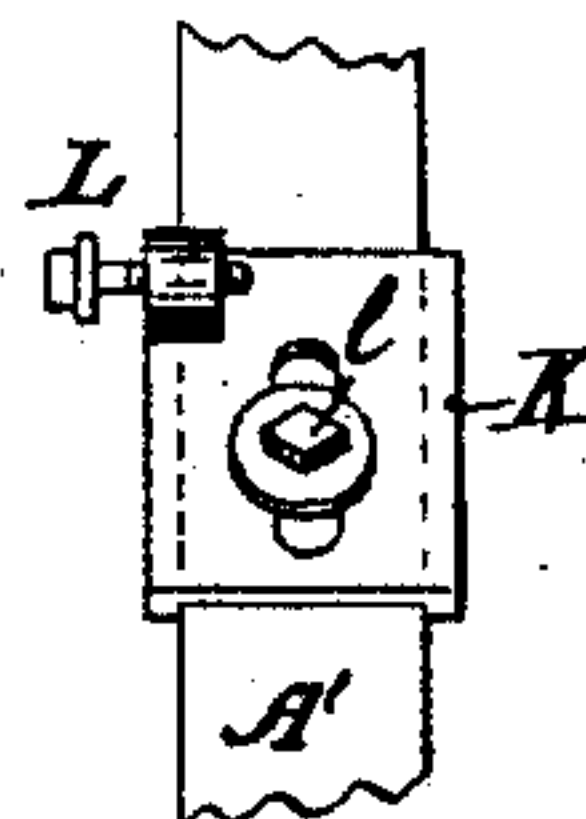
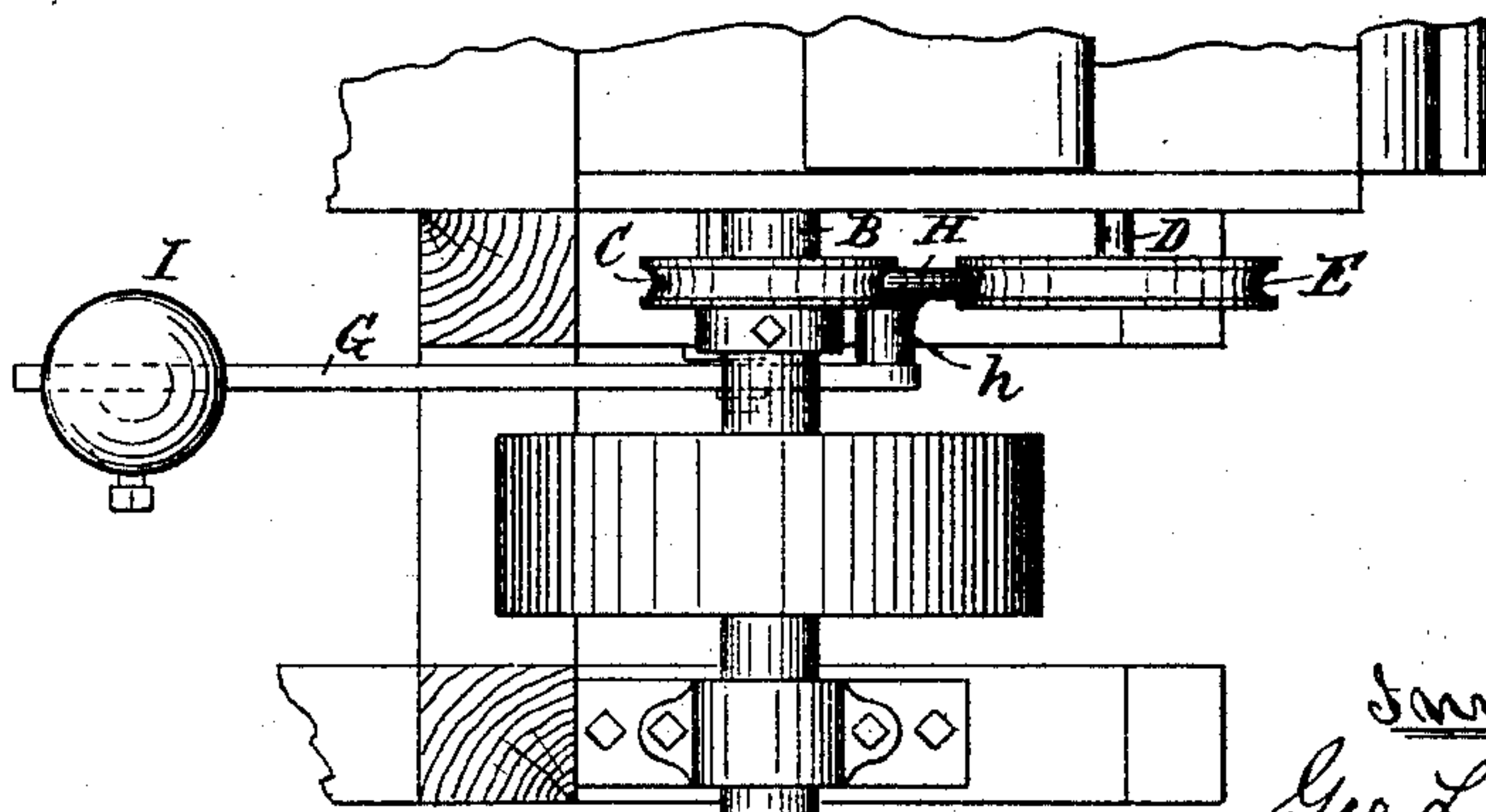


FIG. 2.



Witnesses.

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Inventor.

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UNITED STATES PATENT OFFICE.

GEORGE L. ROLLINS, OF BRIDGEWATER, MASSACHUSETTS.

COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 328,067, dated October 13, 1885.

Application filed July 23, 1885. Serial No. 172,481. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. ROLLINS, a citizen of the United States, residing at Bridgewater, in the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Cotton-Gins, of which the following is a specification.

In cotton-gins now in general use, and particularly such as described in the patent of J. N. Wilson and G. W. Payne, No. 20,120, April 27, 1858, the huller-roller is driven by means of a belt, and whenever it becomes necessary to raise the breast the belt is thrown off the sheaves, and thus becomes liable to be caught in the saws. When cog-wheels are used, they become clogged with the cotton.

It is the object of my invention to dispense with belts and cog-wheels, and thereby obviate the objections incident to their use.

In an application filed April 9, 1885, No. 161,178, I have shown and described a friction-wheel mounted in a weighted and adjustable lever and arranged to bear upon the upper portions of the sheaves on the shafts of the saw-cylinder and huller-roller, the lever being attached at one end to a slotted adjustable plate secured to the frame of the machine.

My present invention, though involving a similar principle, is differently constructed; and it consists of a friction-roller connected to one end of a weighted and slotted lever, the slotted portion of the lever being supported upon a pin or bolt secured to an adjustable plate or clamp bolted to a portion of the frame of the machine, the friction-wheel being made to bear against the lower portions of the saw-cylinder sheave and on the side of the huller-roller sheave.

Referring to the accompanying drawings, Figure 1 is a side elevation and partial section of a cotton-gin embodying my invention. Fig. 2 is a top view of the same, and Fig. 3 is a view

in detail of the adjustable plate that carries the lever.

A A' represent a portion of the frame of a cotton-gin. B is the saw-cylinder shaft, and C the sheave on the same. D is the huller-roller shaft, and E the sheave on the same. All these are parts of machines in common use.

K is a slotted plate secured, by means of a bolt and nut, *l*, to the frame A', so as to be adjustable higher or lower on the frame, as may be required. To the plate K is attached a bearing for a pin or bolt, L, which passes through the slot *g* in the lever G, and which constitutes the fulcrum of said lever. At the outer end of the lever is an adjustable weight, I, and on the inner end of said lever is journaled a friction-wheel, H, which bears against the sheaves C and E on the shafts of the saw-cylinder and huller-roller, respectively.

By the use of the slotted lever, as shown, I am able to dispense with the spring, as shown and described in the pending application above referred to, and the friction-wheel H will adapt itself to the sheaves C and E under all circumstances.

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

In a cotton-gin, the combination, with the sheaves of a saw-cylinder shaft and a huller-roller shaft, of a friction-wheel, H, a weighted and slotted lever, G, an adjustable plate, K, and the frame A', as and for the purpose set forth.

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

GEORGE L. ROLLINS.

Witnesses:

J. H. ADAMS,
E. PLANTA.