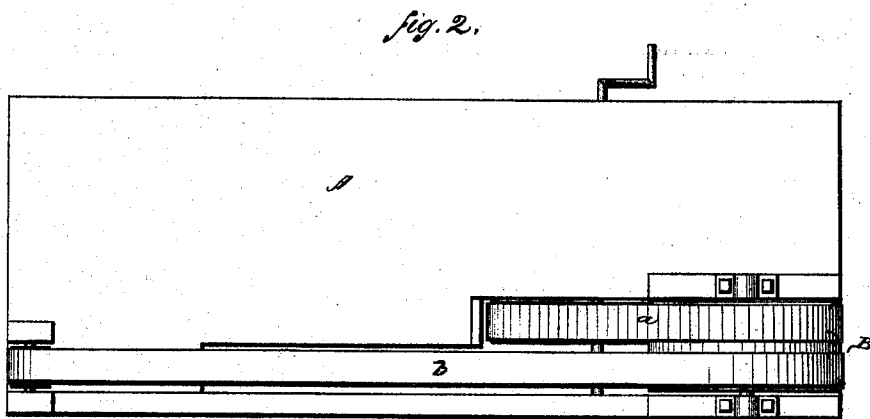
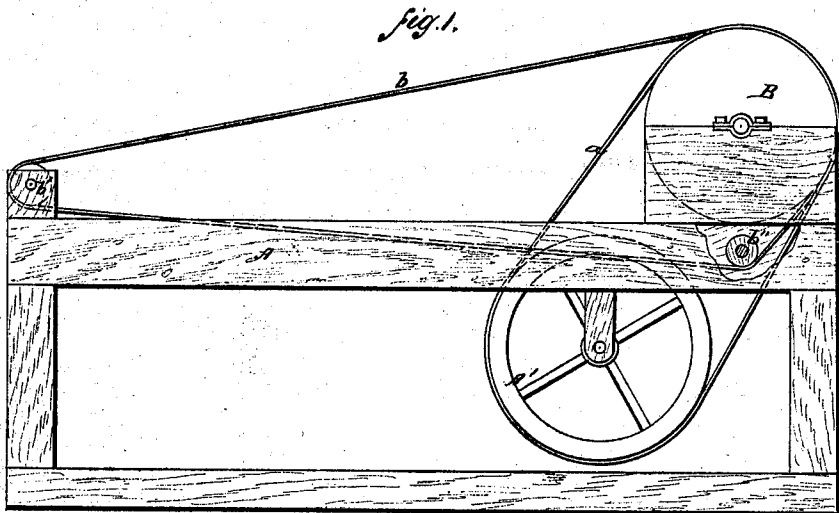


W. I. May,

Motor.

No. 97,945.

Patented Dec. 14, 1869



Witnesses:

Victor Hagmann
W. C. Wilson

Inventor:

W. I. May
per H. M. & C.
Attorneys.

United States Patent Office.

WILLIAM L. MAY, OF LINWOOD, ALABAMA, ASSIGNOR TO WILLIAM J. MAY.

Letters Patent No. 97,945; dated December 14, 1869.

IMPROVED MECHANISM FOR DRIVING 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, WILLIAM L. MAY, of Linwood, in the county of Pike, and State of Alabama, have invented a new and useful Improvement in Propelling Machinery of 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 accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section, and

Figure 2 is a plan view.

This invention has for its object to effect such an arrangement of machinery as will enable a cotton-gin to be run at a materially reduced expense.

In the drawings—

A is a timber frame, which rests on the floor of a gin-house.

A' is the band-wheel, suspended in hangers in the frame A, and receiving motion from the horse or other power.

B is an additional wheel, conveniently and economically constructed of pieces of plank, secured together in any sufficient manner, in wooden or iron boxes, on the frame A, above the band-wheel, with which it is connected by a band, *a*.

The wheel B is also connected with the gin by means of a band, *b*, passing around the gin-head *b'*, at the opposite end of the frame A.

An idler-pulley, *b''*, placed beneath the wheel B, and within the band *b*, sends the latter to the wheel at such an angle that it strikes the periphery of the latter at the same transverse line as the band *a*.

The respective positions of the wheels and idler-pulley cause them all to revolve together.

The wheel B is so much higher than the gin-head that the band *b* exercises a downward pressure upon it. And whereas the band-wheel was formerly directly connected with the gin-head, a larger portion of the periphery of the former was encompassed by the belt, and more friction was excited than in the present arrangement.

Furthermore, the intervention of the wheel B gives the band-wheel a leverage over the gin-head, proportionate to the comparative size of the two.

Having thus described my invention,

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

The combination of the band-wheel A', wheel B, idler-pulley *b''*, gin-head *b'*, frame A, and bands *a*, *b*, all arranged substantially as and for the purpose described.

W. L. MAY.

Witnesses:

O. R. SMITH,
J. P. NORSWORTHY.