

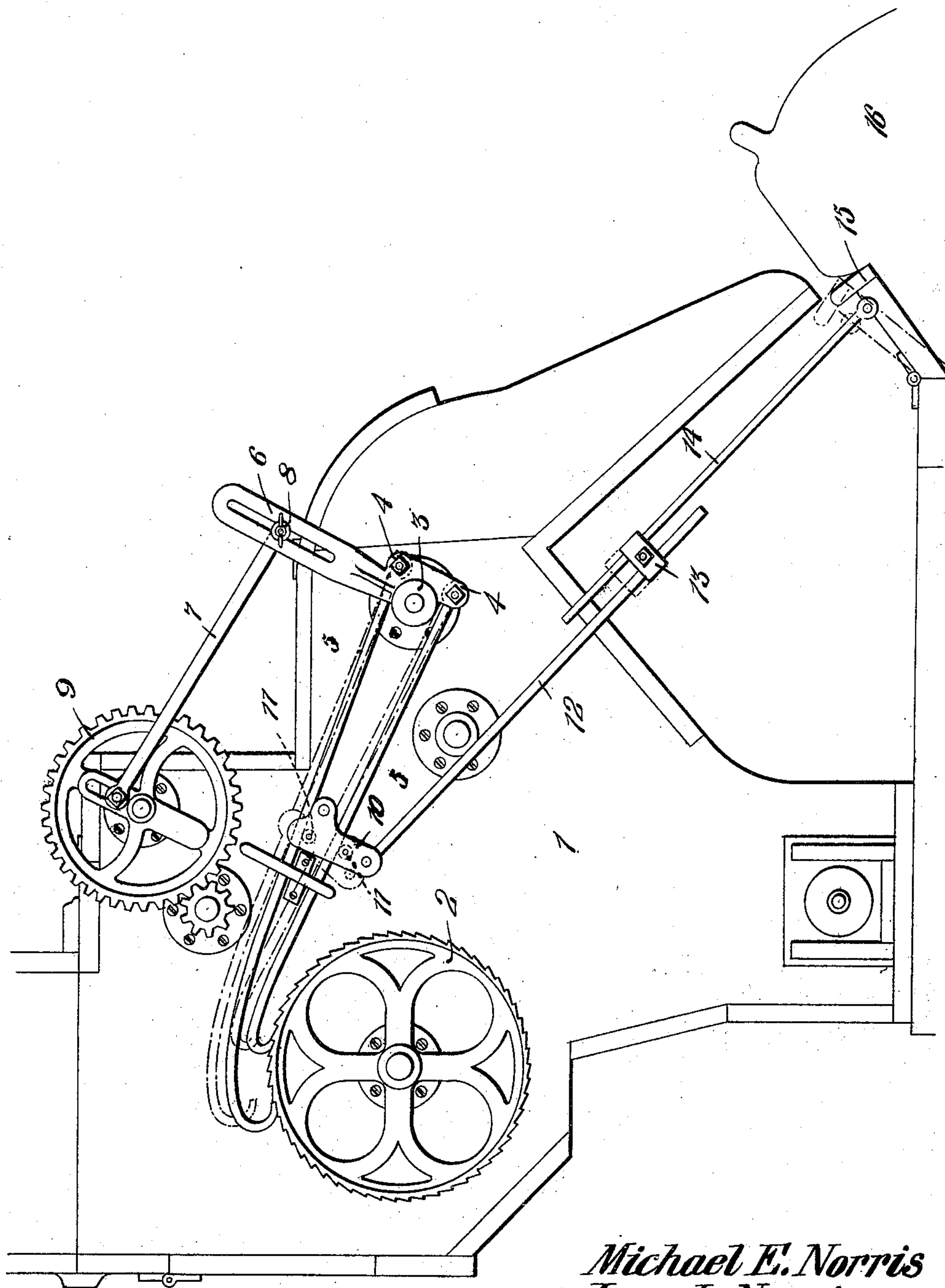
No. 841,182.

PATENTED JAN. 15, 1907.

M. E. & J. L. NORRIS.

GIN FEEDER.

APPLICATION FILED JUNE 30, 1906.



WITNESSES:

E. J. Stewart
Hubert D. Lawson

Michael E. Norris
Jesse L. Norris
INVENTORS

By

Cashmore
ATTORNEYS

UNITED STATES PATENT OFFICE.

MICHAEL E. NORRIS AND JESSE L. NORRIS, OF TEMPLE, TEXAS.

GIN-FEEDER.

No. 841,182.

Specification of Letters Patent.

Patented Jan. 15, 1907.

Application filed June 30, 1906. Serial No. 324,241.

To all whom it may concern:

Be it known that we, MICHAEL E. NORRIS and JESSE L. NORRIS, citizens of the United States, residing at Temple, in the county of Bell and State of Texas, have invented a new and useful Gin-Feeder, of which the following is a specification.

This invention relates to gin-feeders, and more particularly to means for automatically stopping the action of the feeding mechanism whenever the gin becomes choked.

The object of the invention is to provide simple means for raising the pawls from engagement with the ratchet-wheel of the feed mechanism, said means being operated by the movement of the breast of the gin such as caused when the machine becomes choked.

With the above and other objects in view the invention consists of a lifting device disposed close to the pawls and connected, by means of adjustably-attached rods, with the breast of the gin, so that when said breast swings upward a corresponding movement will be imparted to the lifting device and the pawls will be raised over the ratchet-wheel.

The invention also consists of certain other novel features of construction and combinations of parts, which will be herein-after more fully described, and pointed out in the claim.

The preferred form of the invention has been shown in the accompanying drawing, which is a side elevation of a gin-feed and a portion of a gin, the positions of the parts when moved out of operative position being shown by dotted lines.

Referring to the drawing by characters of reference, 1 is the casing of the gin-feed, having a ratchet-wheel 2 disposed thereon and rotatable with the feed-cylinder. (Not shown.) A sleeve 3 is mounted upon the side of the gin-feed and has oppositely-extending ears 4, each of which has a pawl 5 pivoted to it and normally resting by gravity upon the ratchet-wheel 2. A longitudinally-slotted arm 6 extends from the sleeve and has a pitman 7 adjustably secured to it, as at 8, and to a rotatable gear 9, which rotates with the interior mechanism of the gin.

Obviously the rotation of the gear 9 will cause the oscillation of arm 6 and a corresponding reciprocating movement of the pawls 5. These pawls of course alternately engage the teeth of the ratchet-wheel 2 as a result of the rocking movement imparted to the ears 4. A lifting-lever 10 is fulcrumed between its ends at a point between the two pawls and has projections 11 thereon, which extend under said pawls. The lower end of this lifting device is pivotally connected to a rod 12, which in turn is adjustably fastened, by means of a clamp 13, with a rod 14, pivoted to the breast 15 of a gin 16.

When the breast is closed, the pins 11 are removed from contact with the pawls and do not interfere with their engagement with the ratchet-wheel 2. The rotation of gear 9 will therefore cause the rotation of the ratchet-wheel 2. Should cotton be fed too rapidly to the gin-saws, the breast 15 will be raised and cause the rods 14 and 12 to swing the lifting device 10 upon its fulcrum, and thereby press the pins against the pawls and lift them out of engagement with the ratchet-wheel. When the undesirable accumulation of cotton within the gin has been removed subsequent to the stoppage of the feeding, the breast 15 will be reset by gravity, and the pawls will therefore return into engagement with the ratchet-wheel, and the feeding will thus be restarted.

A guide-bracket 17 is preferably secured between the pawls and extends across them, so as to hold them in proper position upon the machine and prevent them from becoming displaced.

The preferred form of the invention has been set forth in the foregoing description; but we do not limit ourselves thereto, as we are aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and we therefore reserve the right to make such changes as fairly fall within the scope of the claim.

What is claimed is—

The combination with a gin having a movable breast; of feed-operating mechanism comprising a ratchet, a lever, pawls pivoted thereto at opposite sides of its fulcrum, a

guide-bracket secured between and extending over the pawls at a point between the ends thereof, a lifting-lever fulcrumed between the pawls and adjacent said bracket, 5 projections upon said lever and adapted to simultaneously contact with and raise the pawls, and a longitudinally-adjustable rigid connection between the lifting-lever and the breast.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

MICHAEL E. NORRIS.
JESSE L. NORRIS.

Witnesses:

D. R. PENDLETON,
A. LEE BROWN.