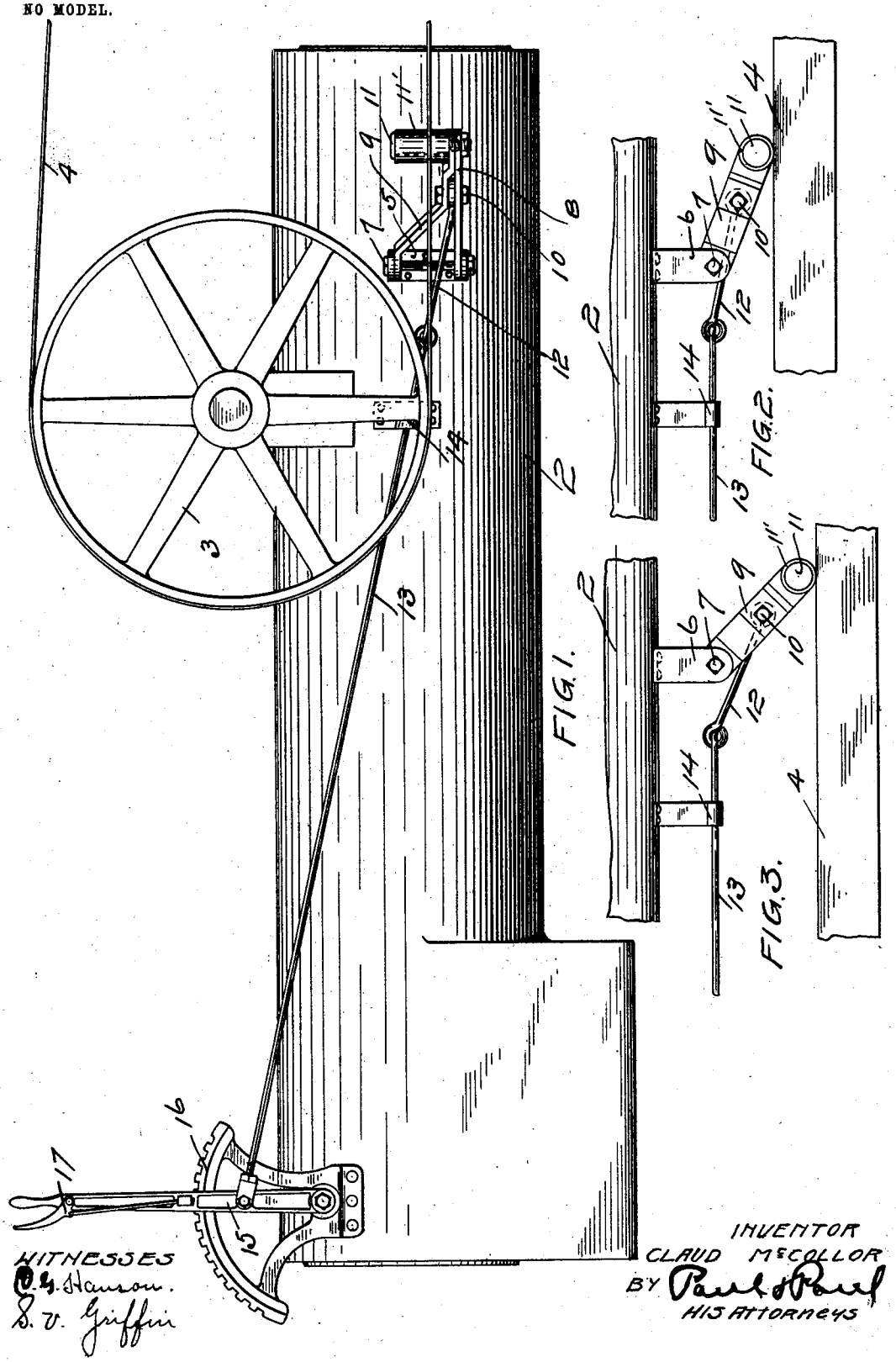
No. 754,488. PATENTED MAR. 15, 1904.

C. McCOLLOR.

BELT REMOVING DEVICE FOR THRESHING ENGINES.

APPLICATION FILED JUNE 20, 1903.

NO MODEL.



WITNESSES
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No. 754,488. Patented March 15, 1904.

UNITED STATES PATENT OFFICE.

CLAUD McCOLLOR, OF HERMAN, MINNESOTA.

BELT-REMOVING DEVICE FOR THRESHING-ENGINES.

SPECIFICATION forming part of Letters Patent No. 754,488, dated March 15, 1904.

Application filed June 20, 1903. Serial No. 162,320. (No model.)

To all whom it may concern:

Be it known that I, CLAUD McCOLLOR, of Herman, county of Grant, State of Minnesota, have invented certain new and useful Improvements in Belt-Removing Devices for Threshing-Engines, of which the following is a specification.

My invention relates to belt-shifters; and the object of the invention is to provide means within control of the threshing-engine operator for easily and quickly removing the belt.

The invention consists generally in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claim.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of a portion of a threshing-engine boiler with my invention applied thereto. Fig. 2 is a plan view showing the device attached to the boiler in position to engage the edge of the belt. Fig. 3 is a similar view showing the device in the act of removing the belt from the pulley.

In the drawings, 2 represents a threshing-engine boiler having the usual pulley 3 and a belt 4, connecting the said pulley with the separator.

5 is a bracket bolted to one side of the boiler and having lugs 6, whereon an oscillating arm is supported by means of a pivot-pin 7. This arm consists, preferably, of a straight bar 8, that rests upon the lower lug, and a bent bar 9, that is in contact with the upper lug and has its outer end resting upon the arm 8 and secured thereto at a point midway between its ends by a bolt 10. A pin 11 has its threaded lower end secured in the outer ends of the arms 8 and 9 and carries an upright anti-friction-roller 11′, that is adapted to engage the edge of the belt and cause it to run off the face of the pulley. A link 12 has one end loosely looped around the bolt 10 and connected at its other end to a rod 13, that is slidable longitudinally in a guide 14 on the wall of the boiler. The rod 13 is pivotally connected to a lever 15, that is mounted on the boiler within convenient reach of the engineer. A quadrant 16 is provided near said lever and engaged by a spring catch device 17, whereby the lever is locked in any desired position.

The operation of the device is as follows: The oscillating arm will normally be in the position shown in Fig. 2 to act as a guide for the belt, and when it is desired to remove the belt from the pulley the engineer will grasp the lever and throw the antifriction-roller 11′ into engagement with the edge of the belt to direct it from the face of the pulley.

The device can be readily attached to the boiler of any threshing-engine, is inexpensive to manufacture, and hence within the reach of all those having threshing-machine outfits.

I claim as my invention—

The combination, with a threshing-engine boiler, its pulley and belt, of a bracket secured to the side of said boiler and having horizontally-projecting lugs one above the other, an arm comprising a straight bar 8 and a downwardly-bent bar 9 pivotally supported at their inner ends on said lugs, a vertically-arranged bolt connecting said bars at a point intermediate to their ends, an upright pin provided at the outer end of said arm, and an antifriction-roller mounted on said pin and arranged to engage the inner edge of said belt, a link having one end looped around said bolt, a rod longitudinally slidable in a guide on said boiler and connected at one end with said link, and an operating-lever pivotally connected to the opposite end of said rod, substantially as described.

In witness whereof I have hereunto set my hand this 11th day of June, 1903.

CLAUD McCOLLOR.

In presence of—

R. H. MILLER,

ALBIN JOHNSON.