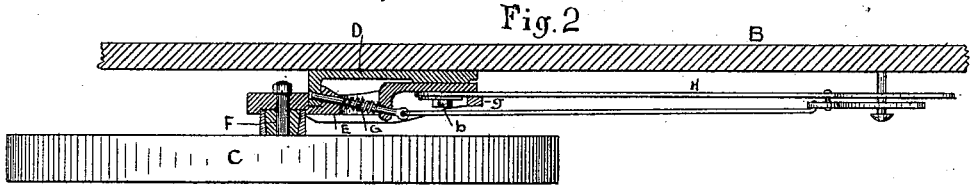
(No Model.)

W. N. WHITELEY.

GRAIN WHEEL ADJUSTER FOR HARVESTERS.

No. 342,663. Patented May 25, 1886.

Fig. 2



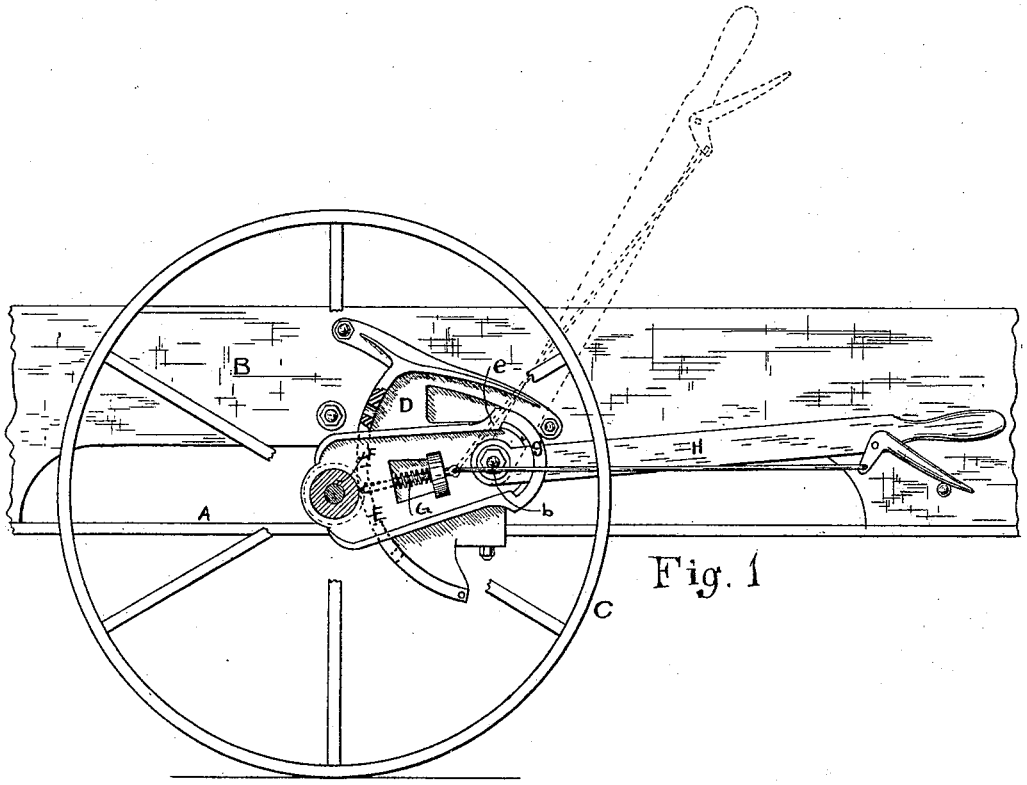


Fig. 1

Witnesses
A. B. Smith.
P. R. Turner.

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By his Attorney
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UNITED STATES PATENT OFFICE.

WILLIAM N. WHITELEY, OF SPRINGFIELD, OHIO.

GRAIN-WHEEL ADJUSTER FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 342,663, dated May 25, 1886.

Application filed September 19, 1885. Serial No. 177,531. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. WHITELEY, of Springfield, in the county of Clark and State of Ohio, have invented new and useful Improvements in Means for Adjusting Grain-Wheels for Harvesters; and I do hereby declare that the following is a full and accurate description of the same, reference being had to the accompanying drawings, wherein—

Figure 1 is a side elevation of my invention. Fig. 2 is a horizontal section of the same.

Heretofore it has been common to mount the grain-wheel upon an arm or bracket pivoted to the frame at the divider side of the machine, so that by adjusting said arm at different points on said frame the machine might be supported at different heights from the ground, and it has been common to provide a lever with segment and latch, whereby said arm might be moved and locked; but, so far as I am aware, said lever has never been flexibly attached, so that when it had served its purpose of changing the position of the frame it might be turned down, protected, and concealed by the divider-board. It has always, I believe, been suffered to project rigidly, and in some positions always exposed to contact with the straw and standing grain, or, after using, entirely removed.

My invention therefore consists in an adjustable grain-wheel arm moving on a fixed segment-plate, with a flexible or pivoted lever to control the same, said lever being capable of being turned down when not in use, concealed, and protected by the divider.

A is the frame of the machine at the divider end. B is the divider-board, and C is the ordinary grain-wheel. D is the segment-plate, bolted rigidly to the frame A or divider B, or both. E is the wheel-arm, pivoted at one end at *b* to the segment-plate B. and provided at the other end with a hub, F, for the wheel C.

Movement of the arm E on its pivot *b* carries the frame A and divider up or down, according to the direction of that movement, and a spring-impelled locking-bolt, G, will retain it in any desired position. A lever, H, is pivoted to the arm E conveniently by the pivot-bolt *b*, so that it is capable of a movement entirely independent of the arm E. It will be observed that the weight of the machine is a constant force tending to lower it as to the wheel, so that force from the attendant will always be required in the same direction, either to raise the machine to a higher level or to control its descent to a lower level. I therefore provide the arm E with a stop-shoulder, *e*, against which said lever will strike when raised up, so as to apply the required power to said arm to raise or lower the machine. The lever H is also provided with the ordinary hand-latch to control the lock-bolt G. When the change of position of the frame A has been effected and the arm E locked in its new position, the lever H may recede from contact with the shoulder *e*, and may fall down by the divider, where it will be out of the way, concealed, and protected. I think it convenient and advisable to make the arm E with a loop, *g*, behind which the lever H may pass to its pivot *b* and relieve said bolt of all lateral strain from a sidewise pull on the hand end of lever H.

Having described my invention, I claim—

1. The stationary segment-plate secured to the divider-board, and an arm pivoted at one end to said plate, provided with means for locking it in position, and carrying the grain-wheel spindle at its other end, combined with a controlling-lever pivoted to said arm and capable of dropping away from its operative position to be concealed behind the divider-board, substantially as set forth.

2. The stationary segment-plate attached to the divider-board of the machine, in combination with the movable arm pivoted thereon, provided on one end with a stop-shoulder and carrying the grain-wheel on the other end, means for locking the arm to the plate in different positions, and a lever pivoted on said arm and adapted to raise or lower said arm and wheel when lifted up to a rigid position against said stop, and free to turn down out of the way of the grain when the arm is locked.

3. The combination of the stationary segment-plate attached to the divider-board of the machine, a movable arm pivoted thereto and carrying on one end the grain-wheel and a stop on the other, a lifting-lever pivoted to said arm, and having a spring-actuated bolt, and the hand-latch to lock the said lever to the segment-plate, substantially as set forth.

WILLIAM N. WHITELEY.

Witnesses:
W. F. BEVITT,
LEWIS PHILLIPS.