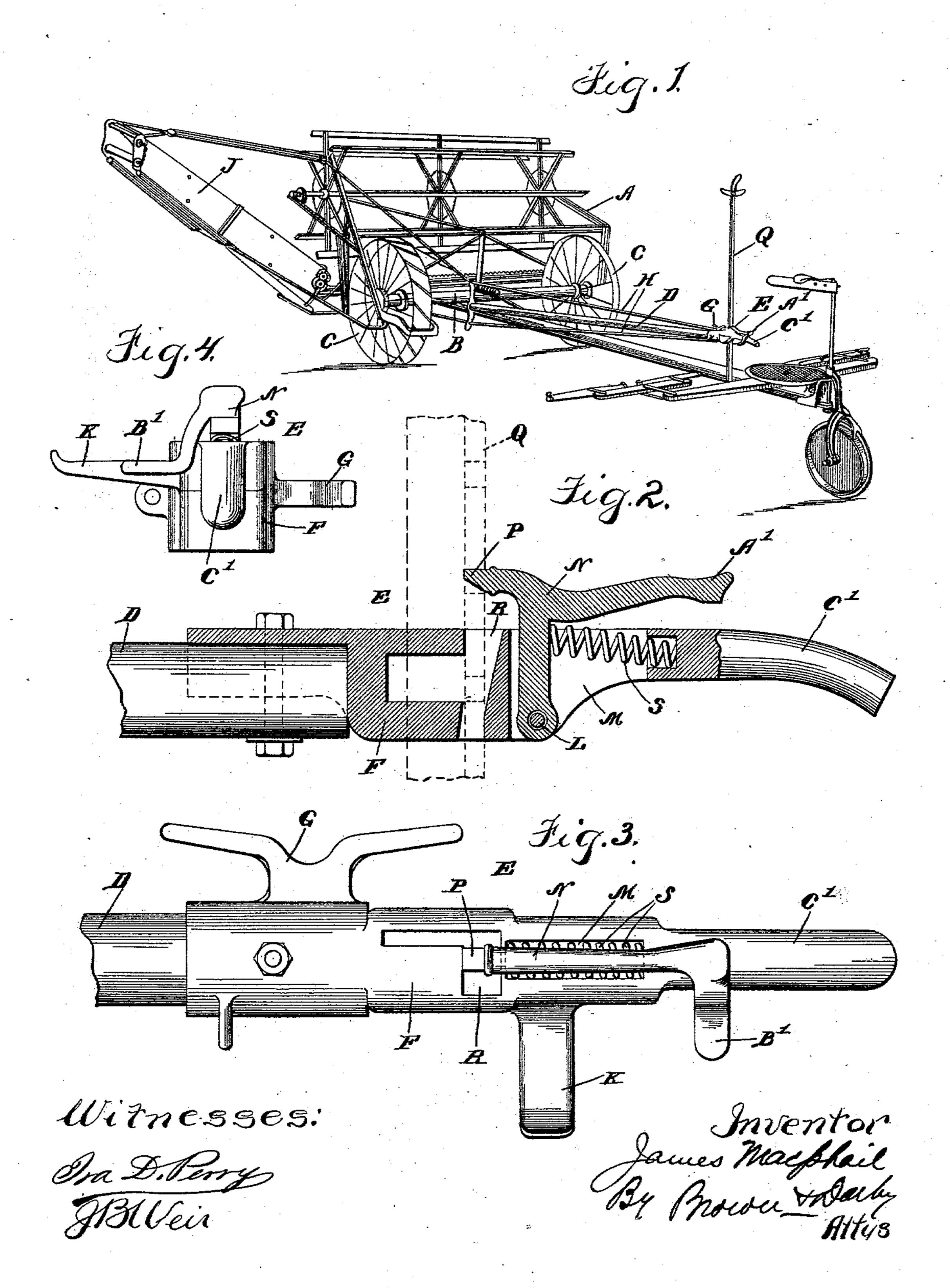
## J. MACPHAIL.

## TILTING LEVER HANDLE FOR HEADERS.

(Application filed May 27, 1901.)

(No Model.)



## United States Patent Office.

JAMES MACPHAIL, OF BLUE ISLAND, ILLINOIS, ASSIGNOR TO MCCORMICK HARVESTING MACHINE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## TILTING-LEVER HANDLE FOR HEADERS.

SPECIFICATION forming part of Letters Patent No. 716,913, dated December 30, 1902.

Application filed May 27, 1901. Serial No. 61,999. (No model.)

To all whom it may concern:

Beitknown that I, James Macphail, a citizen of the United States, residing at Blue Island, in the county of Cook and State of Illinois, have invented new and useful Tilting-Lever Handles for Headers, of which the following is a specification.

This invention relates to tilting-lever han-

dles for headers.

The object of the invention is to provide a handle for the tilting lever of harvesting-machines of the header class which is simple in construction and whereby said handle can be operated by the foot of the driver of the mathine.

The invention consists, substantially, in the construction, combination, location, and arrangement of parts, all as will be more fully hereinafter set forth, as shown in the accompanying drawings, and finally pointed out in

the appended claims.

Referring to the accompanying drawings and to the various views and reference-signs appearing thereon, Figure 1 is a view in perspective of a harvesting-machine of the header class, showing the application thereto of a handle for the tilting lever embodying the principles of my invention. Fig. 2 is a view in longitudinal central section of a lever-handle embodying my invention. Fig. 3 is a top plan view of the same. Fig. 4 is an end view.

The same part is designated by the same reference-sign wherever it occurs throughout

35 the several views.

In harvesting-machines, and particularly machines of the header class, it is the usual custom to pivotally mount the frame of the machine upon the main axle of the traction40 wheels and to provide such framework with a tilting lever arranged to extend rearwardly or into convenient position to be actuated by the driver of the machine, whereby the frame may be tilted upon the axle. It is also customary to provide such tilting lever with an operating-handle arranged to be grasped by the hand of the driver to effect the tilting movement thereof, said handle being provided with a pawl arranged to coöperate with 50 a rack, whereby said lever may be held in

any desired position of adjustment. In the construction of locking-handles for tilting levers such as has heretofore been employed in machines of this class when it is desired to raise or lower the tilting lever it has been 59 necessary for the driver, who generally stands erect in handling or driving the machine, to stoop or benddown, so as to be able to grasp by hand the handle and to release the locking-detent. It will be readily seen 60 that this stooping or bending down is objectionable, for the reason that in accomplishing this work the driver's attention is detracted from his horses or from the proper guidance of the machine and also is incon- 65 venient by reason of the driver having to stoop or bend down to grasp by hand a part which is located at his feet. It is among the special purposes of the present invention to provide a construction of handle for tilting 70 levers of headers which may be operated by the foot of the driver, thus avoiding the necessity for stooping or bending over and also avoiding the objection of detracting the attention of the driver from the proper han- 75 dling of the machine.

Referring to the accompanying drawings, reference-sign A designates generally the framework and various parts of a harvesting-machine of the header type; B, the main 80 axle upon which the framework of the machine is mounted; C, the traction-wheels, and D the tilting lever for the frame. These parts may be of the usual or any well-known or ordinary construction and in the specific 85 details thereof form no part of my present invention.

Reference-sign E designates generally the handle suitably mounted on or secured to the outer end of the tilting lever D. In the pargoricular form shown (to which, however, the invention is not to be limited) said handle comprises a casting F, provided with the usual cleat G, to which the elevating cord or cable H of the elevator J is secured. Formed on 95 or suitably secured to the casting F is a lateral extension or flange K, adapted to form a guard or rest for the foot of the driver. Pivotally mounted, as at L, upon the casting and operating through a slot M in said cast-

ing is a locking pawl or dog N, provided with a nose P, arranged to coöperate with a ratchet bar or rod Q to hold the tilting lever in any desired position of adjustment, said ratchet 5 or rack bar Q passing through an angular slot R of the casting and secured to a fixed part of the frame or tongue of the machine. A spring S may be arranged to engage behind the locking-pawl N and serves to yieldingly to maintain the nose P pressed forwardly into engaging relation with respect to the rackbar Q. The pawl or dog N is provided with a tail A', having a lateral extension B', arranged in convenient relation with respect to 15 casting F to be engaged by the heel of the driver, whereby said pawl or dog N may be rocked about its pivot by the foot of the operator or driver to disengage the nose P thereof from engaging relation with respect to the 20 rack-bar Q, and hence permitting the tilting movement of said lever to rock the frame about its supporting-axle and without the necessity of the driver stooping or bending over to engage the lever by hand. It will also be 25 seen that the locking pawl or dog may also be actuated by hand when desired, and hence the casting F at its extreme rear end is provided with a handpiece C'.

From the foregoing description it will be 30 seen that I provide an exceedingly simple and efficient construction of handle for the tilting lever of harvesting-machines of the header class wherein the lever may be tilted and controlled as to its tilted or adjusted position

35 by the foot of the driver.

Having now set forth the object and nature of my invention and a construction embodying the principles thereof, which is the best form in which I at present contemplate carry-40 ing my invention into practical operation, I desire it to be understood that many variations and changes in the details of construction would readily occur to persons skilled in the art and still fall within the spirit and 45 scope of my invention. I do not desire, therefore, to be limited or restricted to the exact details shown and described; but

What I claim as new and useful and of my own invention, and desire to secure by Letters

50 Patent of the United States, is—

1. The combination with the tilting lever of a harvesting-machine, of a handle for such lever comprising a casting, a locking dog or pawl pivotally mounted on said casting, and

a lateral footpiece extending from said cast- 55 ing and arranged in proximity to said dog or pawl, whereby the latter may be manipulated by the foot of the driver resting on said lateral footpiece, as and for the purpose set forth.

2. The combination with a tilting lever for a harvesting-machine, of a handle therefor comprising-a casting having a lateral extension arranged to form a foot-piece, a dog or pawl pivotally mounted upon said casting 65 and also provided with a lateral extension arranged adjacent to the lateral extension of said casting, and a rack-bar with which said dog or pawl coöperates, as and for the purpose set forth.

3. The combination with a tilting lever for harvesting-machines, of a handle therefor comprising a slotted casting, a dog or pawl pivotally mounted in the slot in said casting and provided with a tailpiece, a lateral ex- 75 tension formed on said tailpiece and a lateral extension formed on said casting adjacent to the lateral extension of said tailpiece, and a rack-bar with which said locking pawl or dog coöperates; all combined and arranged as and 80

for the purpose set forth.

4. The combination with a tilting lever for harvesting-machines and a stationary rackbar, of a handle for said lever comprising a slotted casting, a locking bolt or dog pivot-85 ally mounted in the slot in said casting and provided with a nose arranged to coöperate with said rack-bar, a spring arranged to bear on said dog or pawl and normally operating to hold said nose-piece in engaging relation 90 with respect to said rack-bar, said dog or pawl provided with a tailpiece, said tailpiece having a lateral extension, and a lateral extension formed on said casting and arranged adjacent to the lateral extension on said tail- 95 piece, whereby the foot of the driver resting upon the lateral extension of said casting may also control the engagement of said pawl or dog with said rack-bar, as and for the purpose set forth.

In witness whereof I have hereunto set my hand, this 23d day of May, 1901, in the pres-

ence of the subscribing witnesses.

JAMES MACPHAIL.

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Witnesses:

E. C. SEMPLE, S. E. DARBY.