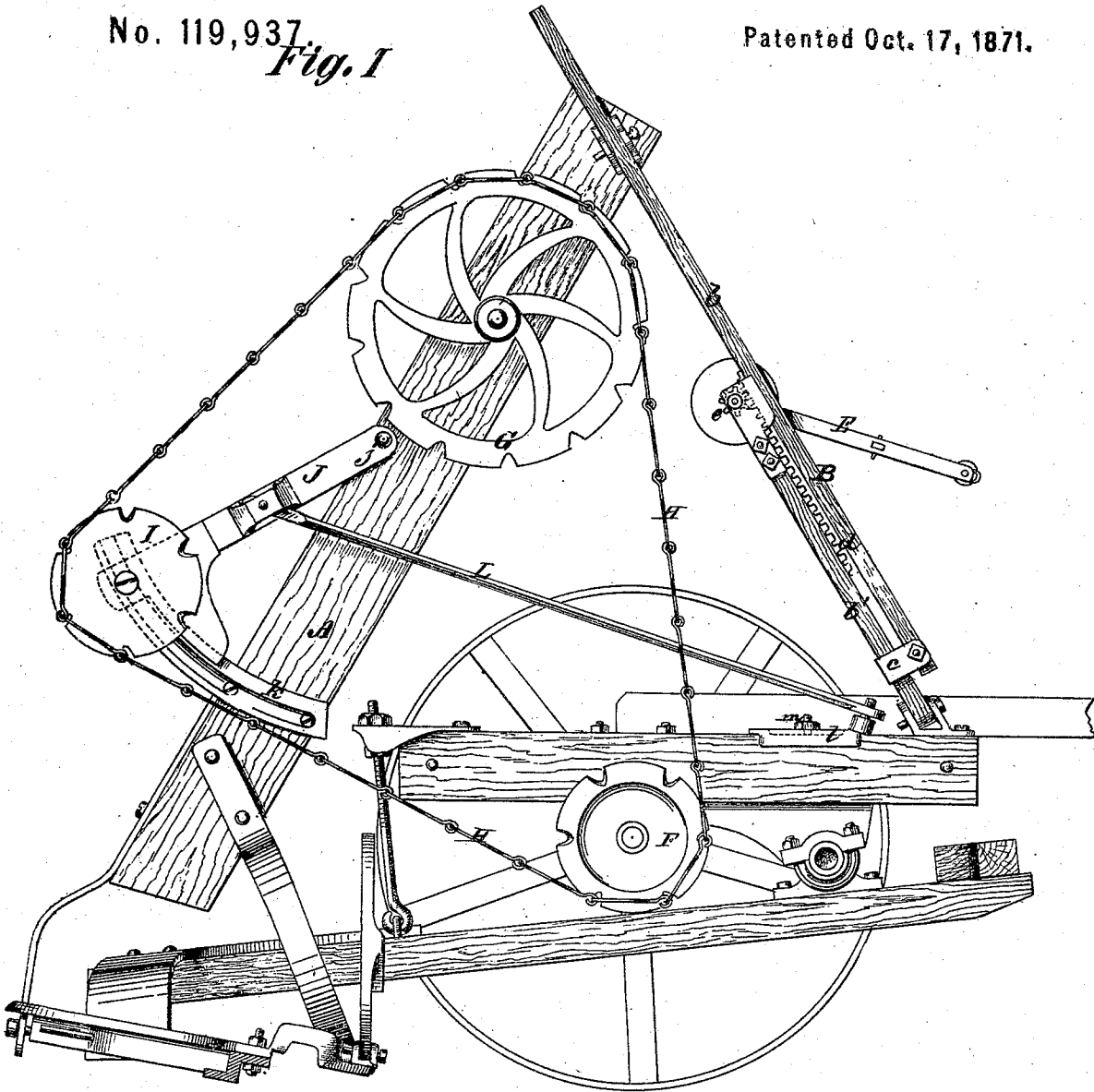


L. J. McCORMICK & W. R. BAKER.

Improvement in Harvesters.

No. 119,937.
Fig. 1

Patented Oct. 17, 1871.



Witnesses: -

W. H. Rowe
Geo. S. Payton.

L. J. McCormick } by their atty
W. R. Baker } W. W. Baldwin

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Fig. 3

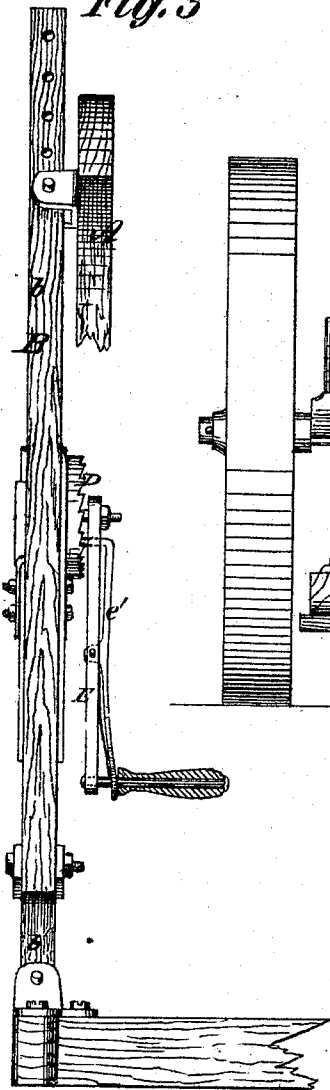


Fig. 2

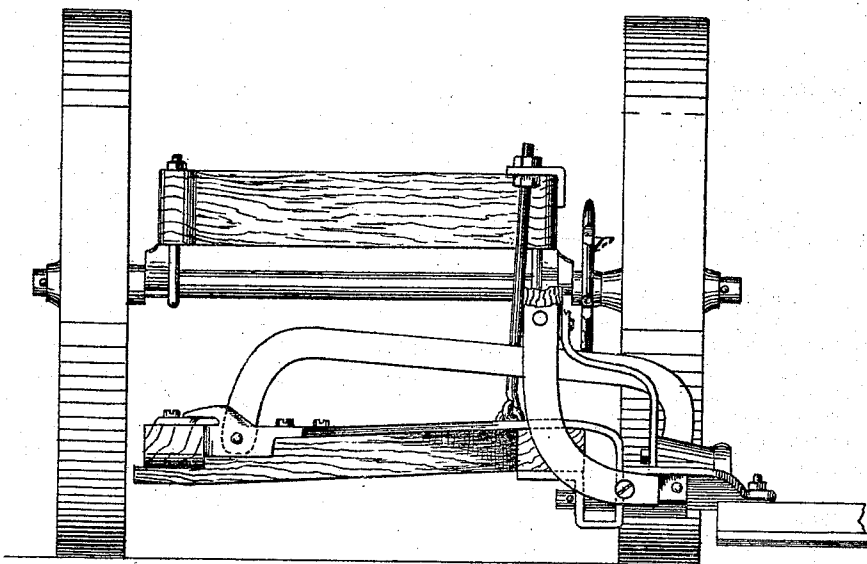
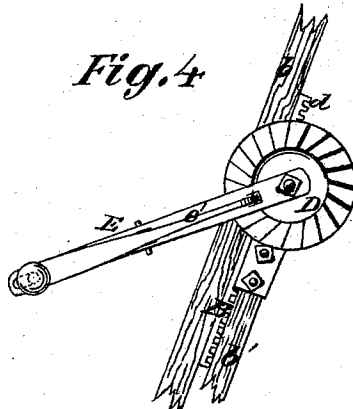


Fig. 4



Witnesses

W. H. Rowe,

Geo. S. Peyton,

*L. J. McCormick by their atty
W. R. Baker J. W. B. Baker*

UNITED STATES PATENT OFFICE.

LEANDER J. McCORMICK AND WILLIAM R. BAKER, OF CHICAGO, ILLINOIS,
ASSIGNORS TO C. H. McCORMICK & BRO., OF SAME PLACE.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 119,937, dated October 17, 1871.

To all whom it may concern:

Be it known that we, LEANDER J. McCORMICK and WILLIAM R. BAKER, both of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Harvesters, of which the following is a specification:

The object of our invention is to enable the driver while reaping to raise and lower the points of the guards of the well known "Advance" harvester built by C. H. McCormick & Bro., of Chicago, Illinois, without stopping the reel or rake; to which end our improvement consists in combining with said machine an extensible brace to rock the finger-beam by means of the rake-post.

In the accompanying drawing, Figure 1 represents a side elevation of so much of an advance machine with our improvement applied thereto as is necessary to illustrate our invention; Fig. 2, a rear elevation of the machine without the rake-post; Fig. 3, a front elevation of the extensible brace; and Fig. 4, a face view of the device for lengthening or shortening the brace.

The construction of the Advance machine is well known and is described in the patent granted to C. H. McCormick & Bro., December 28, 1869, No. 98,394; therefore, those parts only of the machine necessary to understand the invention herein claimed will be referred to herein.

The rake-post A is mounted on the shoe in the usual way. The brace B is made in sections *b* and *b'*, pivoted, respectively, to the rake-post and frame, and sliding one over the other. The upper section *b* of the brace is provided with a loop, *c*, through which the lower section *b'* slides, and with a rack, *d*, which works over a pinion, *e*, on the lower section. This pinion is turned by a crank, *E*, provided with a spring detent, *e'*, which locks into a ratchet, *D*, on the lower section of the brace. A sprocket-pulley, *F*, on the main axle drives a corresponding wheel, *G*, on

the reel and rake-shaft by means of a chain, *H*. A tension pulley, *I*, is mounted on a radius-bar, *J*, pivoted at *j* to the rake-post, and is controlled by a guide, *K*. A link-rod, *L*, is pivoted to the frame and to the radius-bar to maintain the tension pulley in proper relation to the chain. The guide is fixed on the rake-post and the radius-bar is grooved to move over it.

In operation the driver rocks the guards by releasing the detent and turning the crank, thus lengthening or shortening the brace *B*. The link-rod *L* holds the tension-pulley in the proper position to keep the driving-chain taut, and the tension-pulley may be adjusted by means of the slide *l* on the end of the link-rod, which slide is adjustable by means of a slot and set-screw, *m*.

Our invention is an improvement on the device invented by W. N. Johnson, of Marquette, Wisconsin, for rocking the guards of the Advance machine, which device differs from ours, as Johnson's brace has to be uncoupled from the rake-post to rock the guards, while our brace is not so removed, being made extensible and having the rocking mechanism applied directly to it, which we consider a decided improvement.

We claim as our invention—

The combination of the rocking shoe, the rake-post, the extensible sectional brace connecting the rake-post and frame, and the rack, pinion, and detent for adjusting and holding the brace, these members being constructed and operating in combination, substantially as hereinbefore set forth, to enable the driver to rock the guard-fingers without leaving his seat and while the machine is working.

In testimony whereof we have hereunto subscribed our names.

L. J. McCORMICK.
WM. R. BAKER.

Witnesses:

C. A. SPRING, Jr.,
F. H. MATTHEWS.

(74)