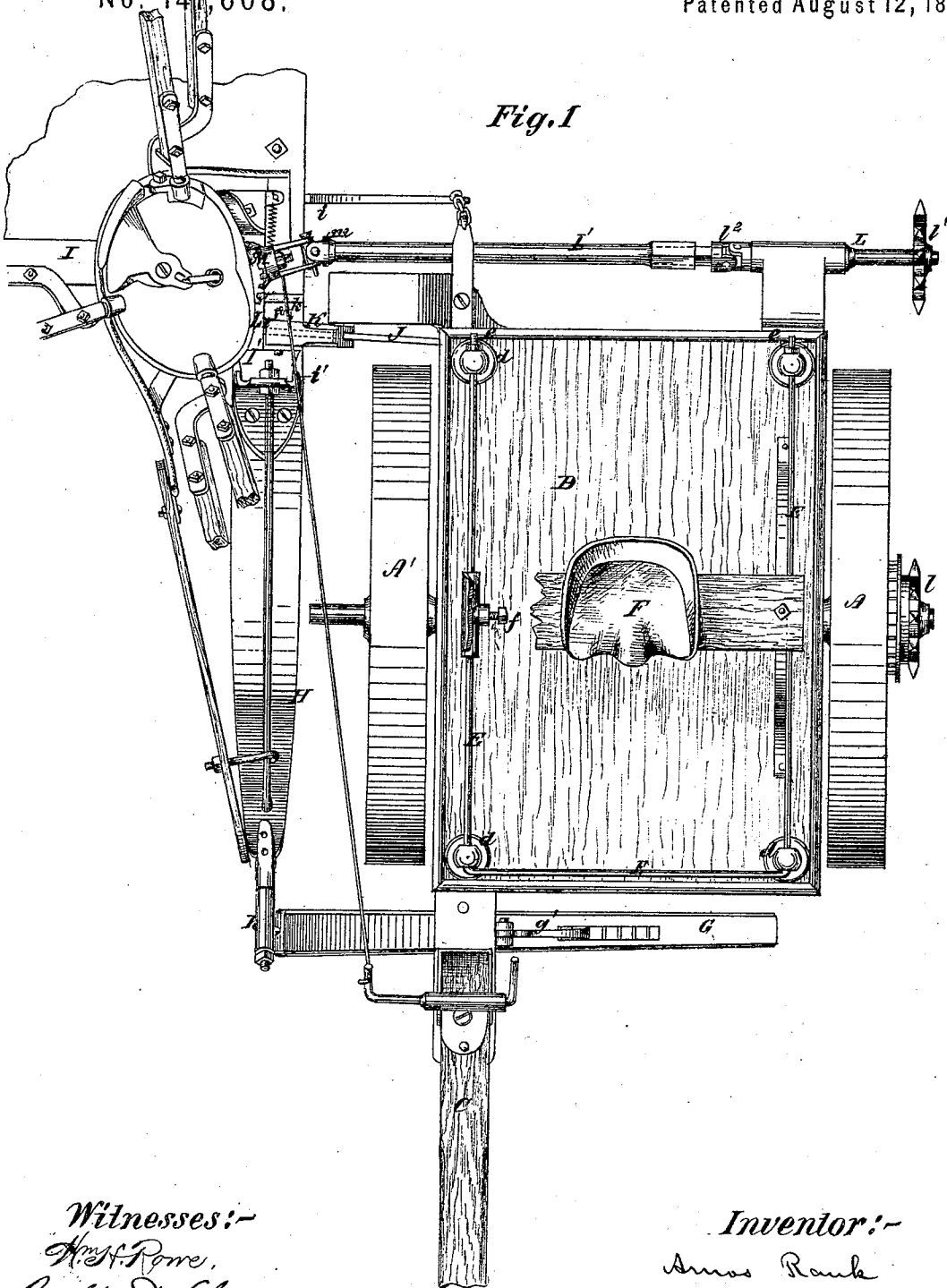


A. RANK.
Harvester-Rakes.

No. 141,668.

Patented August 12, 1873.

Fig. 1



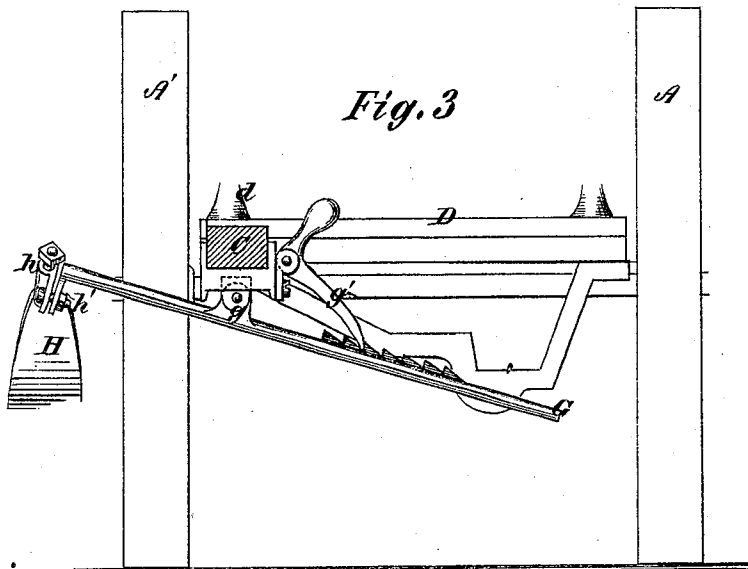
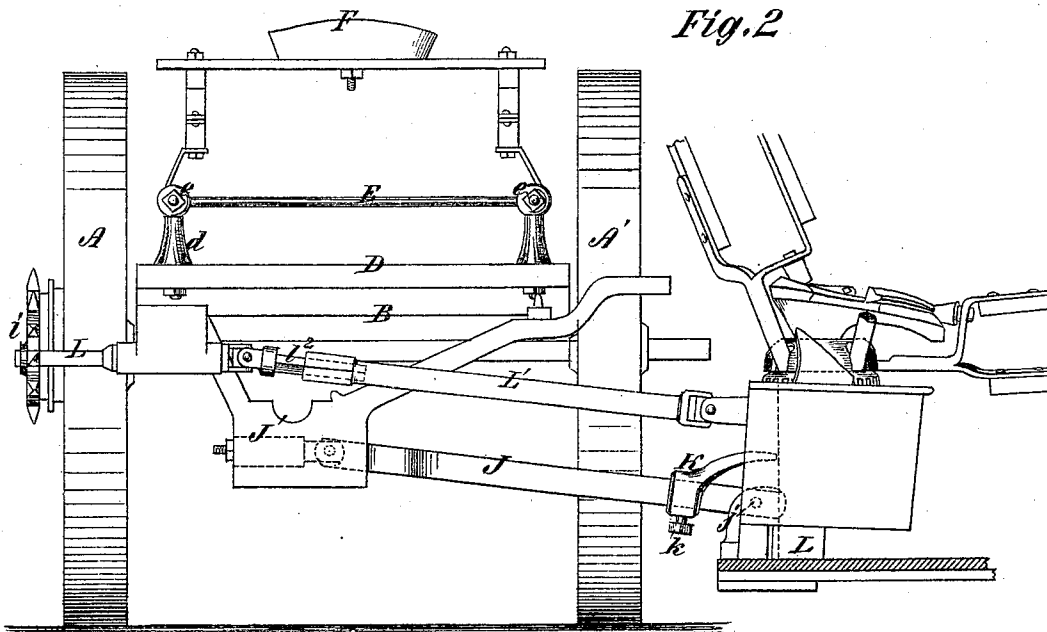
Witnesses:-
H. S. Rome,
Baltis D. Long.

Inventor:-
Amos Rank
by his Atty
Wm. D. Baldwin

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UNITED STATES PATENT OFFICE.

AMOS RANK, OF SALEM, OHIO.

IMPROVEMENT IN HARVESTER-RAKES.

Specification forming part of Letters Patent No. **111,668**, dated August 12, 1873; application filed May 4, 1871.

To all whom it may concern:

Be it known that I, AMOS RANK, of Salem, Columbiana county, and State of Ohio, have invented a new and useful Improvement in Harvesters, of which the following is a specification:

The object of the improvement herein claimed is to prevent the rake from striking the driving-wheel by means of an adjustable stop on the coupling-arm, as hereinafter set forth.

In the accompanying drawings, which show my improvement as embodied in the well-known "Ætna" harvester, invented and patented by me, Figure 1 is a plan; Fig. 2, a rear elevation; and Fig. 3, a front elevation.

The driving-wheels A A' turn loosely on the main axle, with which they are connected by suitable backing-ratchets. The main frame B is mounted on the axle. A tongue, C, projects from the front of this frame. A box platform or frame platform, D, covers the frame and gearing. A rod, E, passes through the eyes of posts *d*, mounted on the corners of this platform, and is strained taut by jam-nuts *e*, thus bracing the platform-frame and giving a firm support to the seat F for the driver. This seat is mounted on springs, the supports of which slide on the rod E, and are held at any desired point by set-screws *f*, Fig. 1. The weight of the driver by this means serves to balance the machine. A lever, G, rocks vertically on a pivot, *g*, underneath the tongue

and transversely thereto. A pawl, *g'*, pivoted on the frame takes into ratchet-teeth on the lever G, and holds it in any desired position. A drag-bar, H, is pivoted in a bearing or collar, *h*, pin-jointed at *h'* to the rocking-lever G, so as to form a swivel-joint. A finger-beam, I, is secured at its heel end to a shoe, I', pivoted behind to the drag-bar by a pin, *i*, and secured in front to a bracket, *i'*, on the drag-bar. A coupling-arm, J, is pivoted at one end to a down-hanger, J', of the main frame by a swivel-joint, and at the other to the shoe at *j*. An adjustable stop, K, held at any desired point on the coupling-arm by a clamp-screw, *k*, abuts against the rake-standard L, mounted on the shoe and finger-beam, and prevents the rake from striking the driving-wheels.

The details of the grain-wheel, platform, and rake need no description here, being shown in my former patents.

I claim as my invention—

The combination of the shoe, the rake-standard, the coupling-arm, and the adjustable stop thereon, all these members operating in combination, as set forth, to prevent the rake from striking the driving-wheel and to make the joint rigid in one direction.

In testimony whereof I have hereunto subscribed my name.

AMOS RANK.

Witnesses:

WILLIS CADWALLADER,
ORLANDO RANK.