

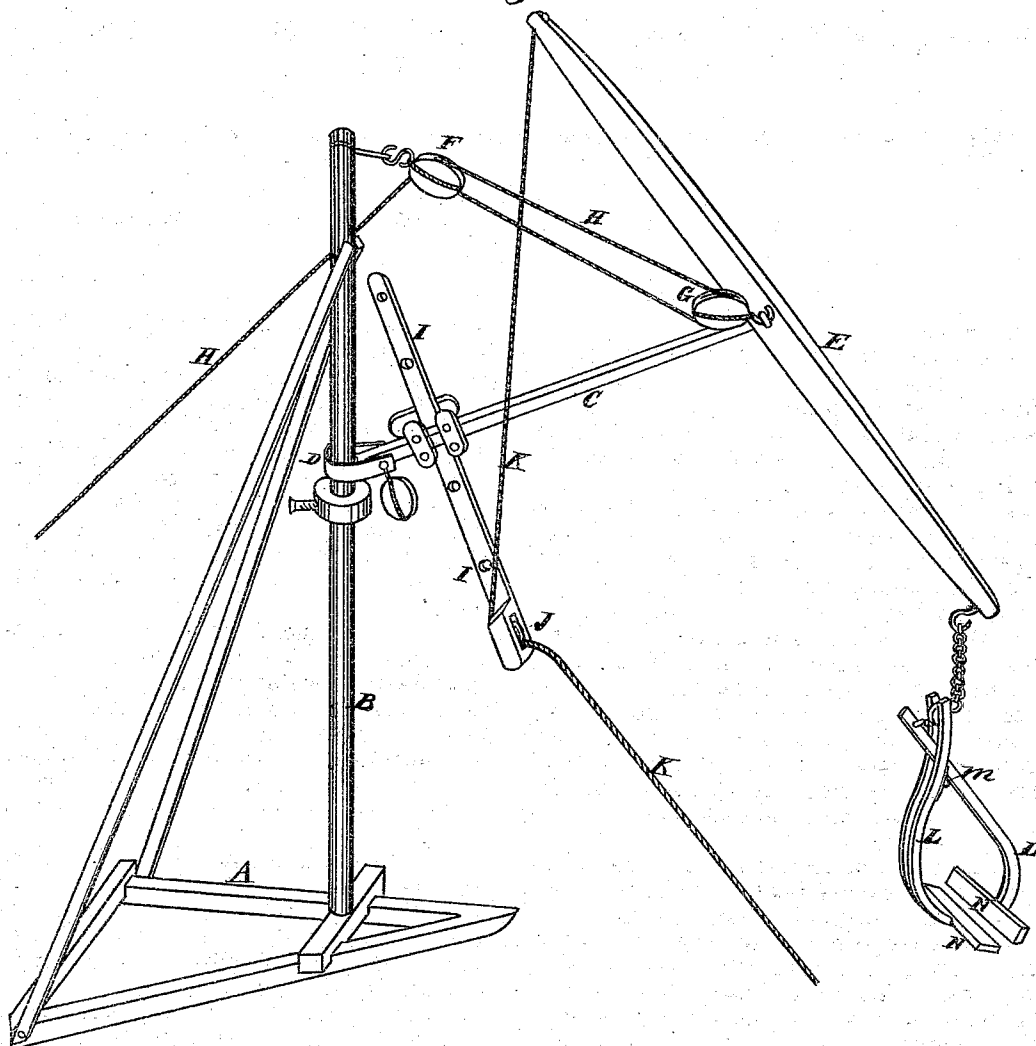
E. P. KENYON, J. J. McCLEBBEN & J. H. OLLRICH.

Mechanisms for Moving Grain in the Sack.

No. 152,753.

Patented July 7, 1874.

*Fig. 1.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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MILTON, CALIFORNIA.

## IMPROVEMENT IN MECHANISMS FOR MOVING GRAIN IN THE SACK.

Specification forming part of Letters Patent No. **152,753**, dated July 7, 1874; application filed  
May 15, 1874.

### *To all whom it may concern:*

Be it known that we, E. P. KENYON, JAMES J. McCLEBBEN, and JOHN H. OLLRICH, of Milton, Calaveras county, State of California, have invented a Derrick for Moving Grain-Sacks; and we do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use our said invention without further invention or experiment.

Our invention relates to an improved device which is to be used in handling grain in sacks; and it consists in the combination of a main and a supplemental boom, the main boom swinging a vertical mast, and the supplemental boom being attached to the main boom, both being worked by ropes and pulleys. The grappling-fork is suspended from the boom and grasps the sack, transferring it to any point desired.

Referring to the accompanying drawings for a more complete explanation of our invention, Figure 1 is a perspective view of our device.

A is a triangular or other suitably-shaped base, having the mast B, which is steadied by guy-ropes. The boom C has its inner end attached to the mast by means of a clasp, D, which allows it to swing around from side to side. At the outer end of this boom a supplemental boom, E, is pivoted through some point in its middle section, so that it will have a movement about this point of support. The pulley-blocks F and G are secured, respectively, to the mast-head and to the end of the boom C; and a rope, H, leading over them, and thence down to the ground, serves to raise and lower this boom. Near its inner end an arm or bar, I, is clamped securely to the boom C, and nearly at right angles with it. The

lower end of this bar is provided with a pulley, J, over which the rope K leads, and is fastened to the inner end of the supplemental boom E. By this rope the boom E is raised and lowered independently of any movement of the boom C. Our device for handling the sacks consists of the curved arms L, hinged together, as shown at *m*. At their lower ends these arms are provided with cross bars or strips N, which serve to grasp and hold the sack until it can be deposited at the desired point.

By this construction of the two booms, working upon each other, and at the same time independently, together with our fork or device for seizing the sacks, we are enabled to remove the sacks from a thrashing-machine and pile them in any suitable or desired place.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The derrick consisting of the mast B, with the main boom C and the supplemental boom E, connected as shown, and provided with the pulleys F, G, and J, with their operating-ropes, substantially as and for the purpose herein described.

2. The device for lifting and moving sacks, consisting of the curved arms L, united at *m*, and provided with the cross-bars N, substantially as and for the purpose described.

In witness whereof we hereunto set our hands and seals.

|                       |         |
|-----------------------|---------|
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