

A. Erkenbrecher,
Grain Conveyer.

N^o 68,293.

Patented Aug. 27, 1867.

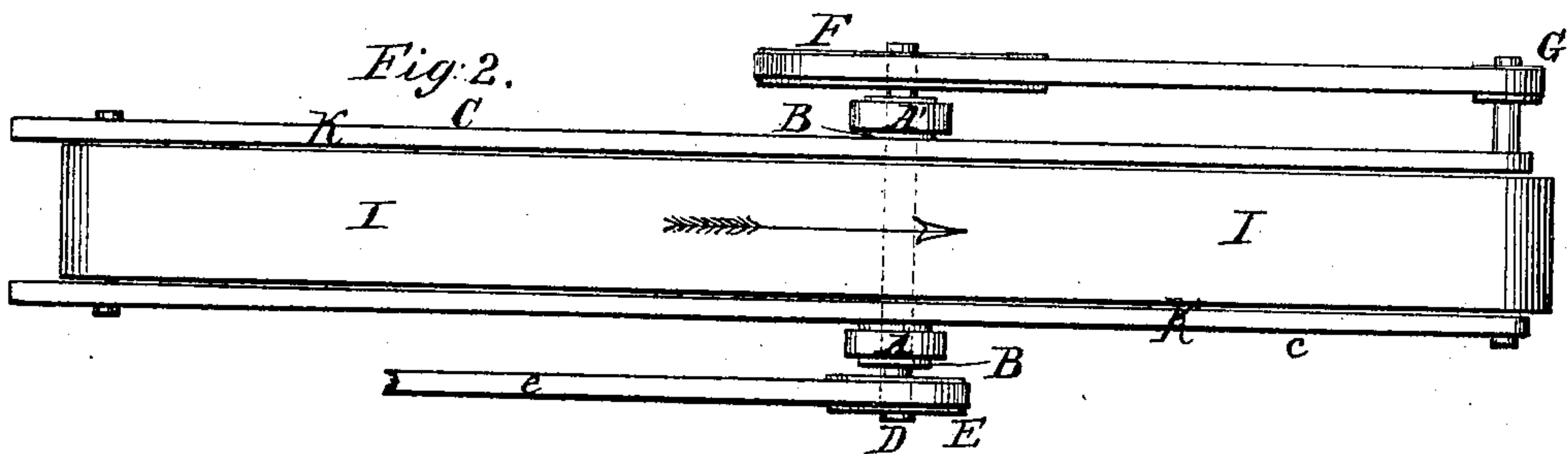
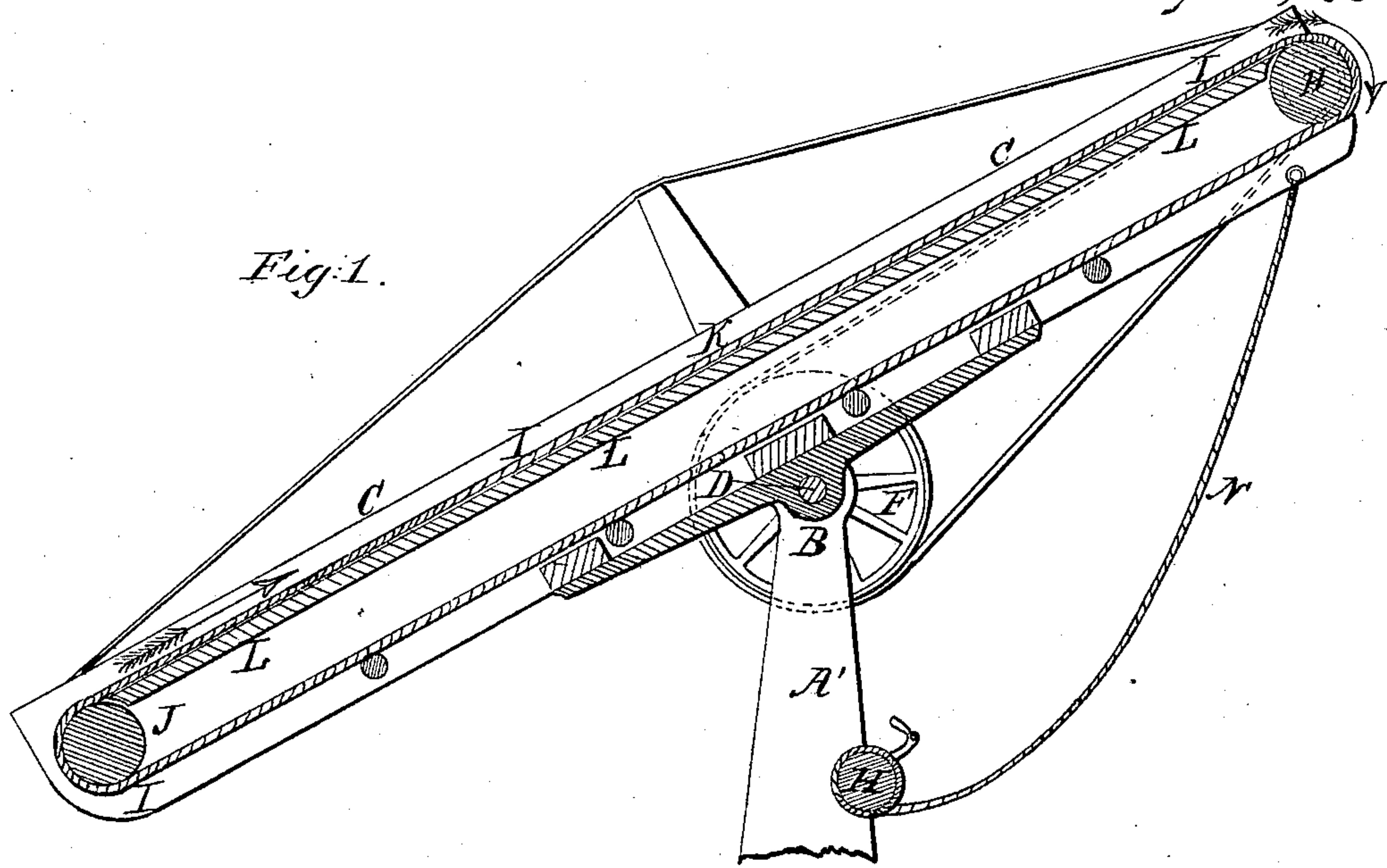
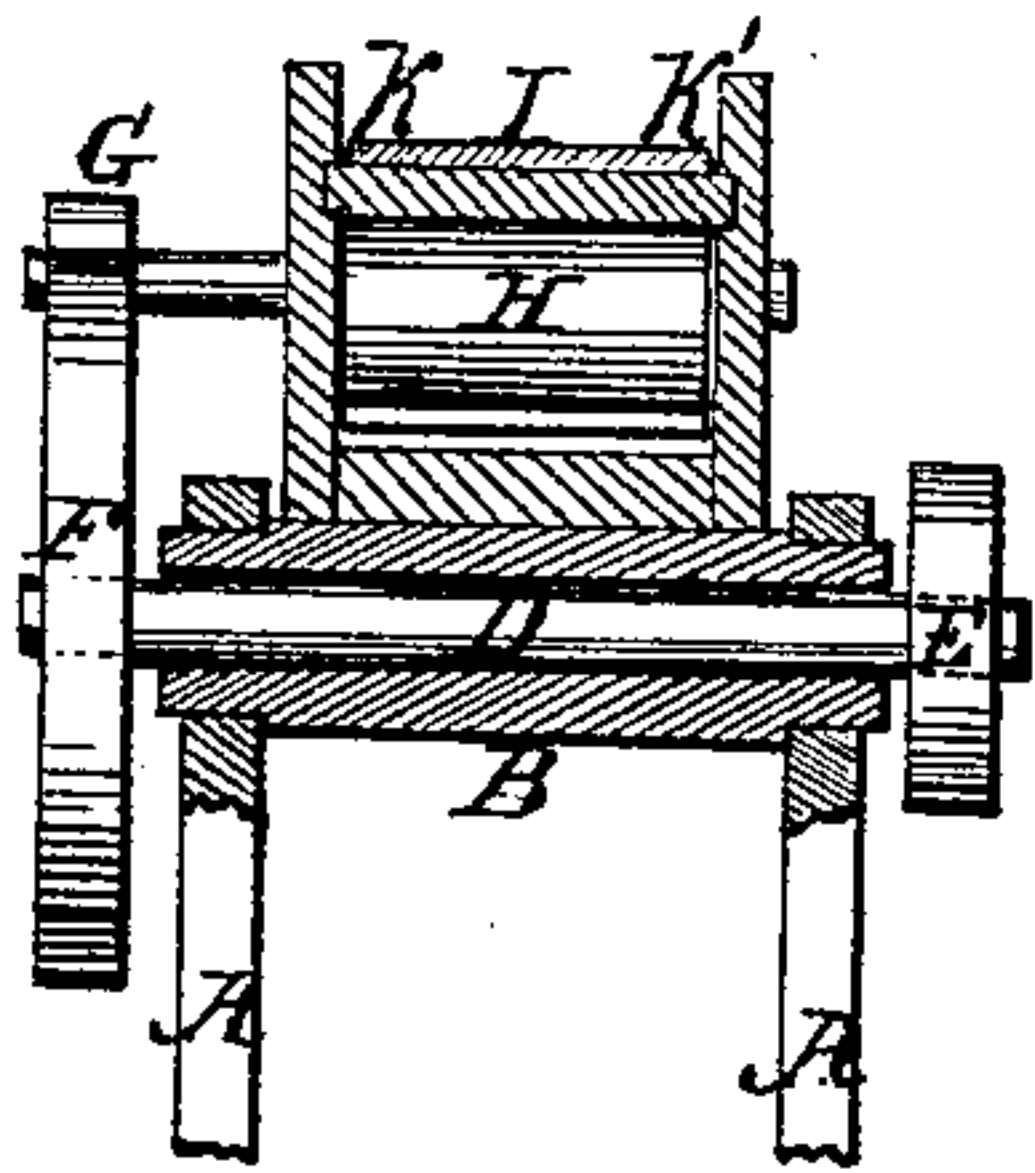


Fig. 3.



Witnesses;
James H. Layman
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United States Patent Office.

ANDREW ERKENBRECHER, OF CINCINNATI, OHIO.

Letters Patent No. 68,293, dated August 27, 1867.

IMPROVEMENT IN CORN-ELEVATOR.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, ANDREW ERKENBRECHER, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Corn-Elevator; and I hereby declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a device for the conveyance of Indian corn in the ear from a barge or wagon to any portion or story of a warehouse, mill, or factory.

Figure 1 is a longitudinal section of a machine embodying my invention.

Figure 2 is a top view thereof.

Figure 3 is an axial section through the trunnion.

A A' are standards, affording at their upper parts journal bearings for a hollow trunnion, B, which projects on both sides from and supports the adjustable and oscillating carrier C. The said trunnion itself affords journal bearing for a driving-shaft, D, having at one end a driving-belt, e, and at its other end a pulley, F, which is belted to a pulley, G, on the upper or driving-roller H of an endless band or apron, I, whose lower bight is carried around an idler, J. The sides K K' of the frame rise sufficiently above the apron to prevent the escape of the ears, and said sides are connected by a floor, L, which serves to support the belt, and to prevent its sagging. M is a windlass, journaled in the standard or other fixed object, and connected by cord or chain N with the upper end of the frame of the carrier C.

Operation.

The belt being caused to revolve at about three hundred feet per minute, the outer end of the frame C is lowered into the barge or wagon to be unloaded, and the corn is shovelled on to the apron. On touching the apron the corn assumes of itself a longitudinal position which prevents it rolling off of the apron, and is carried up rapidly and in large volume, and delivered over the upper end of the apron into the desired room or bin, being moved in bulk, and with entire freedom from spillage or waste, and with great economy of time and labor.

It will be seen that the provision and arrangement of the hollow trunnion enable the adjustment or elevation and depression of the carrier without any interference with its propulsion, which proceeds with regular and undisturbed velocity. A carrier of this kind is capable of moving two thousand bushels of corn in three hours without being at any one instant loaded with over one hundred pounds of corn. When not in use its outer end can be elevated clear of vehicles, &c.

I claim herein as new, and of my invention—

The arrangement of adjustable carrier C, having an endless apron, I, and having its driving-shaft D enclosed within the hollow trunnion B, which upholds the said carrier, and about which it oscillates, substantially as set forth.

In testimony of which invention I hereunto set my hand.

ANDREW ERKENBRECHER.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.