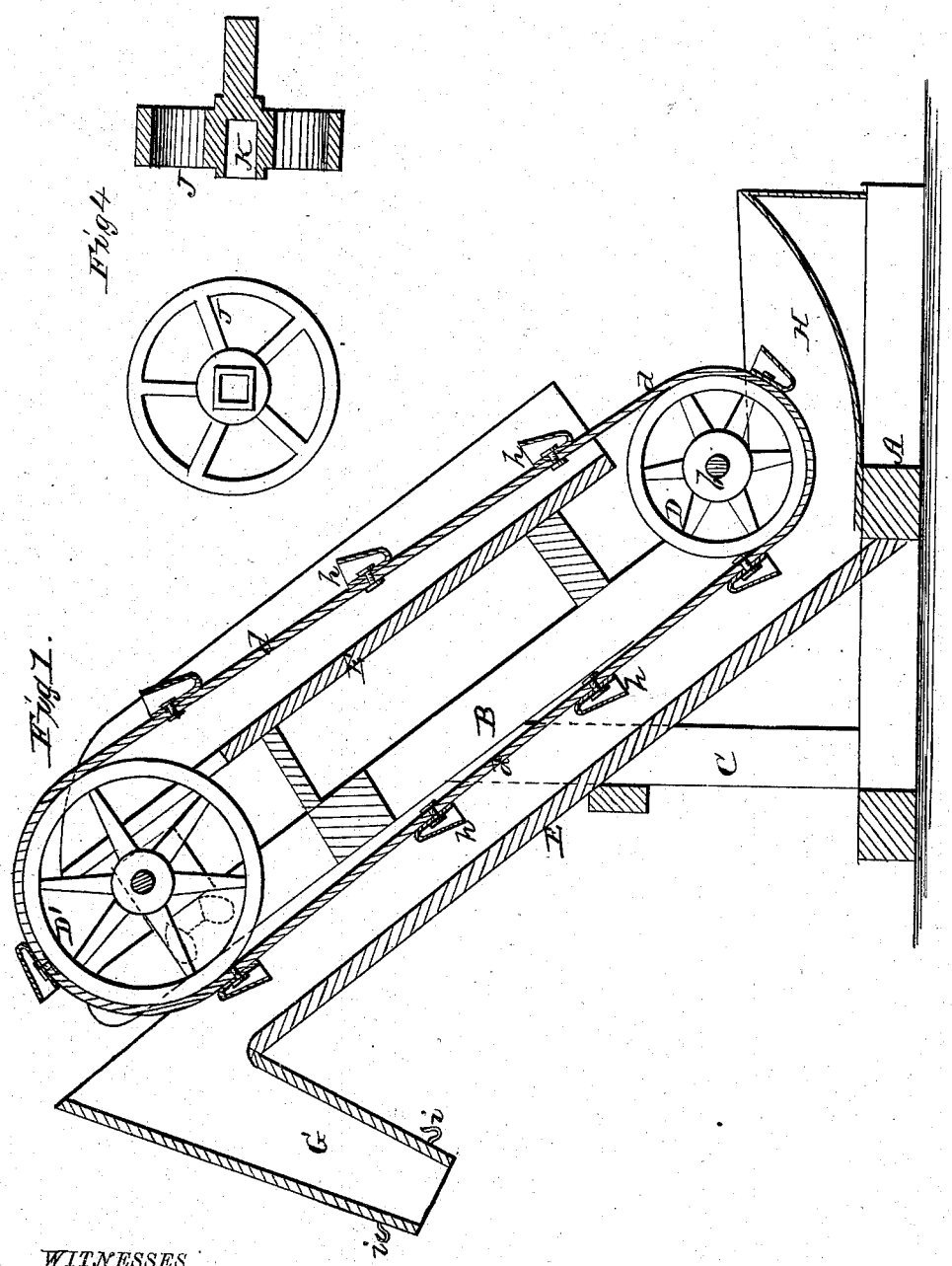
2 Sheets—Sheet 1.

# J. L. McLAUGHLIN.

## GRAIN-ELEVATOR.

No. 186,596. Patented Jan. 23, 1877.




WITNESSES

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2 Sheets—Sheet 2.

# J. L. McLAUGHLIN.

## GRAIN-ELEVATOR.

No. 186,596. Patented Jan. 23, 1877.

Fig 2

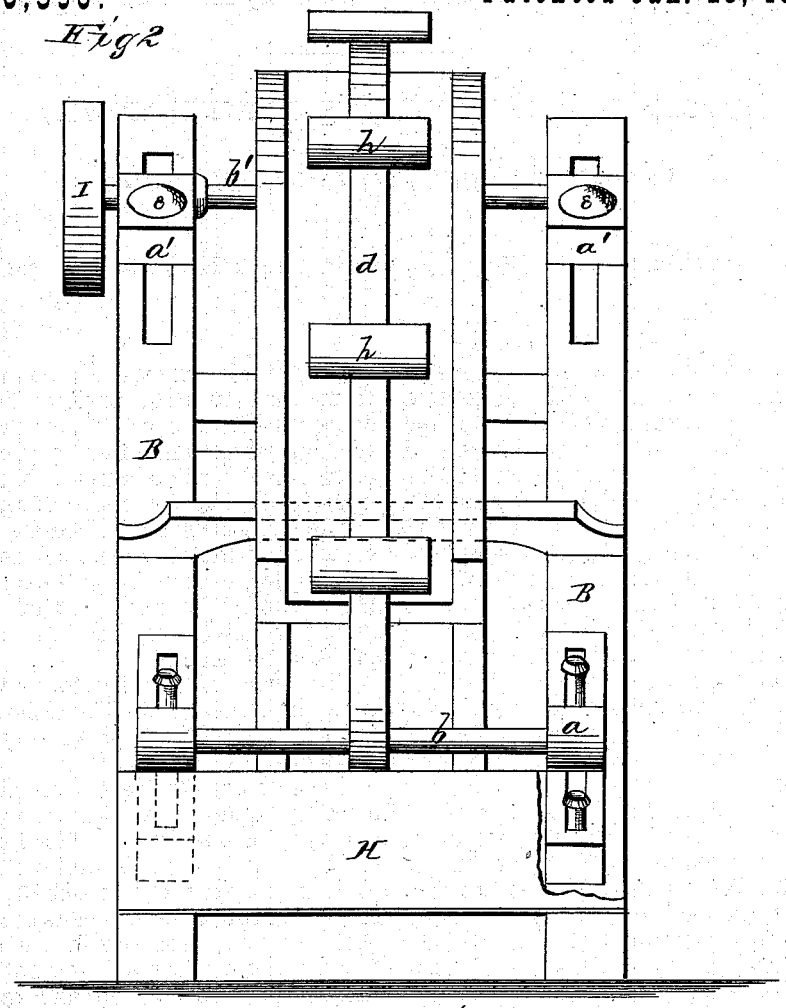
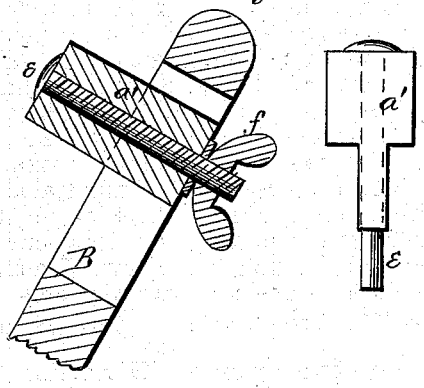



Fig 3

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# UNITED STATES PATENT OFFICE.

JOHN L. McLAUGHLIN, OF OELWEIN, IOWA.

## IMPROVEMENT IN GRAIN-ELEVATORS.

Specification forming part of Letters Patent No. **186,596**, dated January 23, 1877; application filed June 2, 1876.

*To all whom it may concern:*

Be it known that I, JOHN L. McLAUGHLIN, of Oelwein, in the county of Fayette and State of Iowa, have invented certain new and useful Improvements in Portable Grain-Elevator and Self-Sacker; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a portable grain-elevator to be attached to a fanning-mill for conveying grain from the mill to either grain cart or sack, as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is a longitudinal vertical section of my elevator. Fig. 2 is a front elevation of the same. Figs. 3 and 4 are detailed views of parts thereof.

A represents the bed-frame of my elevator, upon which are two parallel inclined beams, B B, supported upon posts C C, and connected by suitable cross-bars. In adjustable boxes *a a*, near the lower ends of the beams B, is placed a horizontal shaft, *b*, upon the center of which is secured a wheel or pulley, D. Around this pulley runs an endless belt, *d*, which also passes around a similar pulley, D′, upon another shaft, *b′*. This shaft has its bearings in boxes *a′ a′*, which are adjustable on the upper ends of the beams B, said beams being slotted longitudinally for that purpose, and each box provided with a bolt, *e*, which passes through the slot, and a thumb-nut, *f*, screwed on the end of the bolt, for holding it at any point desired, by which means the belt *d* may be tightened or loosened, as required.

On the belt *d* are secured any desired number of buckets *h h*, which revolve with the belt. The elevator belt and buckets pass over suitable frames E, connected to the frame-work, and the buckets discharge their contents into a spout, G, at the upper end, through which the grain may pass to a cart or to a sack, which latter is then suspended upon hooks *i* at the mouth of the spout.

The front part of the bed-frame A is to be attached to the mill-posts by means of hooks and staples, so as to bring the chute or hopper H, at the lower front end of the elevator, under the chute of the mill, to convey the grain to the elevator.

The frame of the elevator may be made of wood or iron, as desired, and the various parts of the elevator may be of any suitable dimensions.

The elevator is run by a belt passing around a pulley, I, on the end of the upper shaft *b′*, and around a pulley, J, placed on the crank-shaft of the mill. This pulley J has a socket, K, to slip over the crank-shaft, and is to be secured to the same by means of a pin through both, or by a set-screw in the socket. The top and bottom boxes being both adjustable, the belt can be lowered and raised, so that the buckets may take up either a large or a small quantity of grain from the hopper H.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, in a portable grain-elevator, of the slotted inclined beams B, adjustable boxes *a a′*, shafts *b b′*, pulleys D D′, and adjustable endless belt *d*, with buckets *h*, all as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN LEWIS McLAUGHLIN.

Witnesses:

A. V. BLAIR,

GEO. H. PHILLIPS.