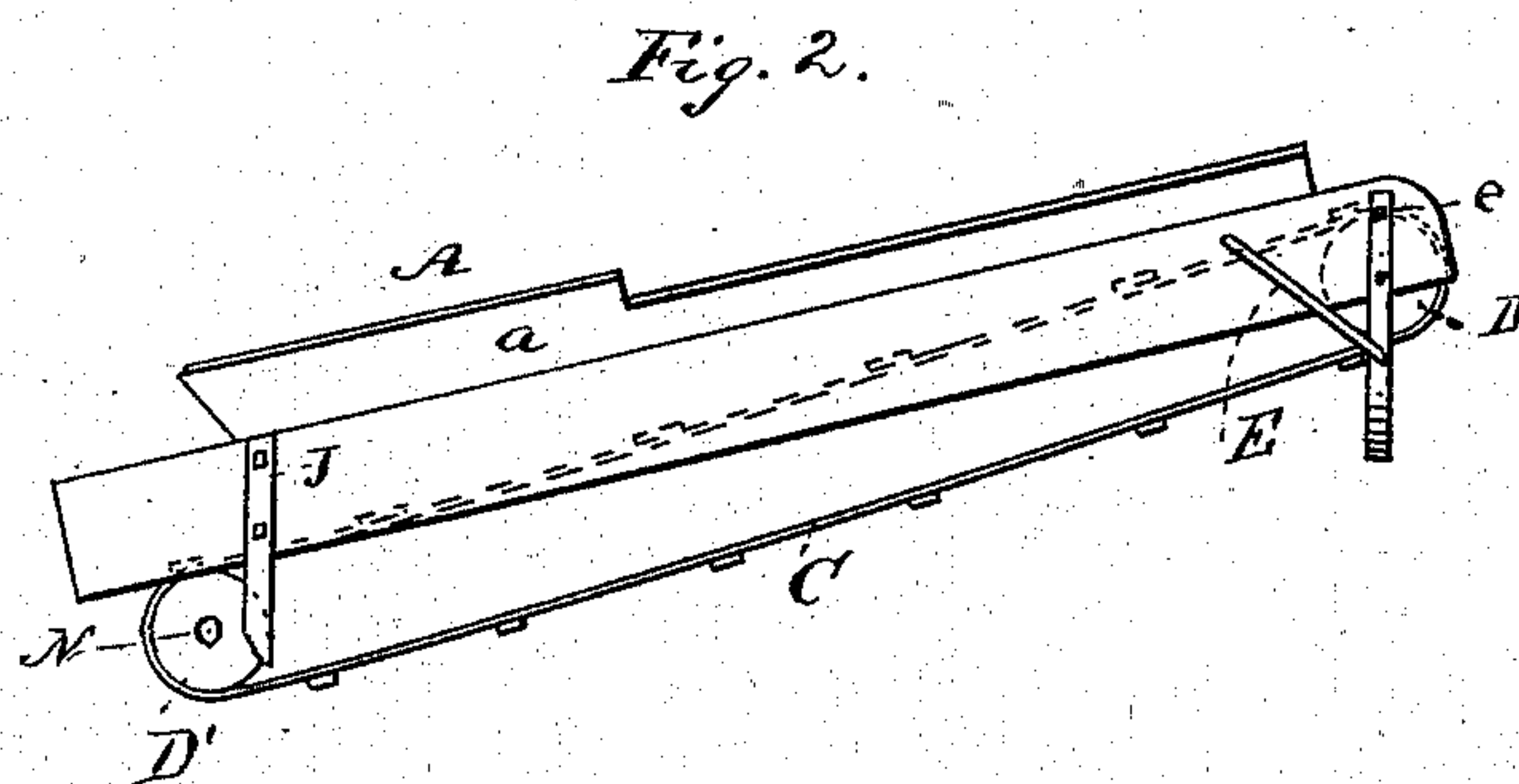
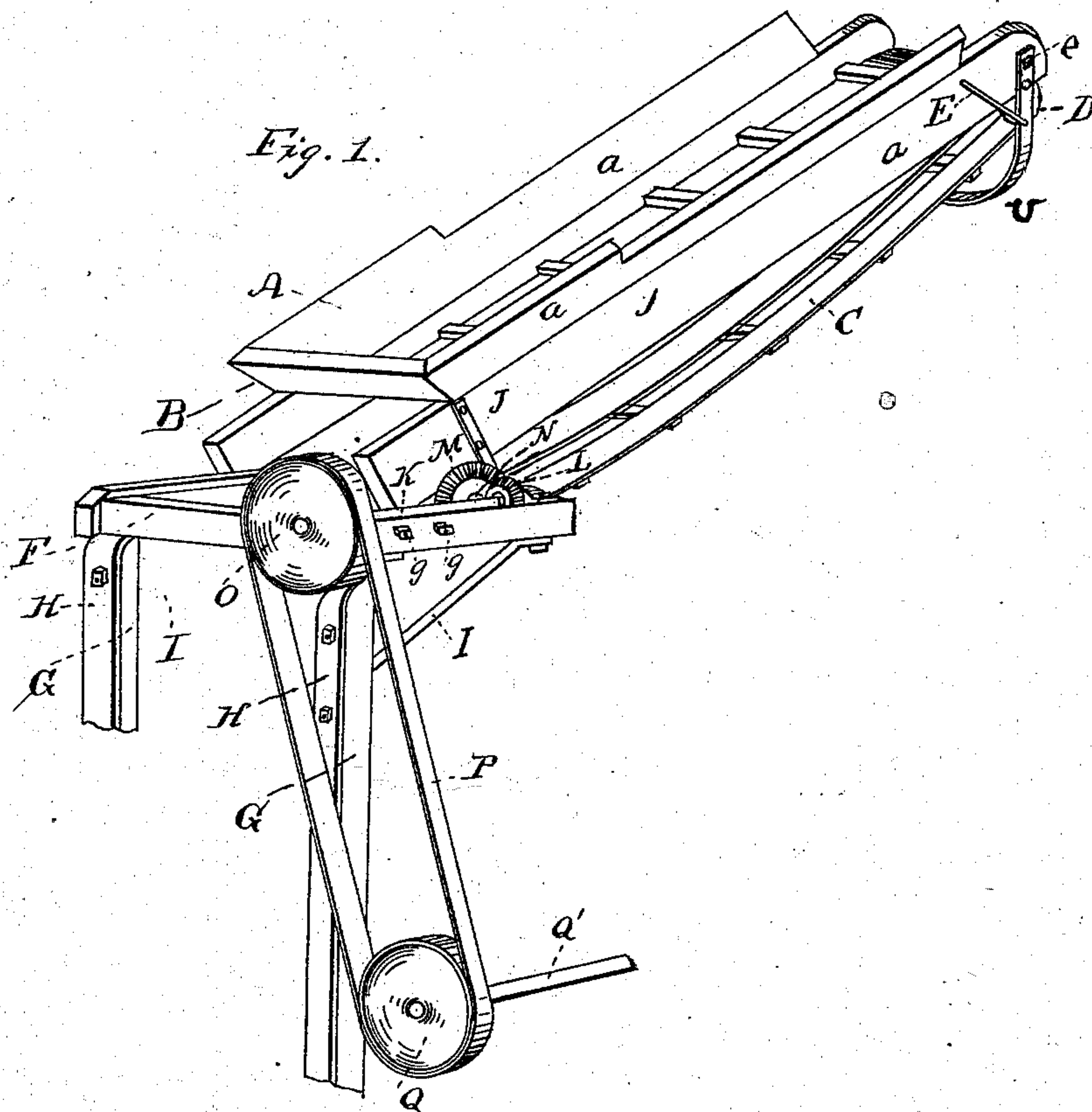


(No Model.)

W. O. GOTCHALL.
ELEVATOR FOR CORN SHELLERS.

No. 288,426.

Patented Nov. 13, 1883.



WITNESSES
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WILLIAM O. GOTCHALL, OF GARFIELD, ILLINOIS.

ELEVATOR FOR CORN-SHELLERS.

SPECIFICATION forming part of Letters Patent No. 288,426, dated November 13, 1883.

Application filed July 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM OLIVER GOTCHALL, a citizen of the United States, residing at Garfield, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Elevators for Corn-Shellers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in elevators for corn-shellers, and has for its object the supply of ears of corn or partly shelled cobs which have once passed through the sheller to the mouth of the sheller, where it falls into the same and is entirely shelled; and the invention consists in the novel construction of parts, as will hereinafter be more fully described, and specifically pointed out in the claim.

In the annexed drawings, to which reference is made, and which fully illustrates my invention, Figure 1 is a perspective view of my invention. Fig. 2 is a side view of the elevator and upper rest.

Like letters refer to like parts in the several views.

A represents an inclined elevator, composed of two side pieces, *a a*, slightly sloping toward each other, and B is the end piece, to which these side pieces are secured. These side pieces, *a a*, for about two-thirds of their distance, from their upper ends, are cut down, so as to leave the remaining one-third of the elevator and its lower part deeper, and thus, as it were, form a hopper to receive the ears of corn.

C is an endless slatted belt passing over and around shafts or rollers D D', the lower one of which is provided with a bevel-gear wheel, M, and the upper one is journaled in the side pieces, *a a*, of the elevator at its upper end, and also in the ends of a piece of strap-iron or rod, U, bent in the form of the letter U, which passes underneath the upper end of the elevator, and is secured to the side pieces, *a a*, by means of bolts and nuts *e* and small braces E on each side of the elevator A, this end of the elevator merely resting in the bent rod U, which in turn rests upon a sheller or the

framing thereof, and can be detached from the U-shaped strap-iron or bent rod by withdrawing the bolts *e* from the rod or strap U.

F is the main frame or platform of the elevator, and rests upon two rear posts, G G. Through the frame F two strengthening-rods, *g g*, pass, so as to prevent it from spreading or giving in any manner. The frame F is fastened to the posts G G by means of strap-irons H H and braces I I, and upon this main frame F rests the lower end of the elevator A, to which it is securely held in place by means of vertical rods J, which pass down through the main frame F just behind two gear-wheels, L and M, and said rods J are bolted to the under side of the frame F, sufficient room being given for the operation of said gear-wheels, as will be hereinafter more fully explained.

Journaled in the main frame F, and running longitudinally with a main shaft, to be hereinafter referred to, is a shaft, K, provided on its inner end with a bevel-gear wheel, L, which meshes with another bevel-gear wheel, M, on the end of a transverse shaft, N, which passes through the lower end of the elevator A. The opposite end of this shaft K is provided with a belt-wheel, O, over which passes a belt, P, which also passes over another belt-wheel, Q, upon the end of a main or driving shaft, Q', through the medium of which motion is imparted to the elevator-belt or carrier by means of a fly or balance wheel secured to the other end of the driving-shaft Q', (not shown in the drawings,) or by any suitable motor.

The corn to be elevated is placed in the lower end of the elevator by the operator, and the ears are conveyed by the carrier up to the highest part of the elevator, dropped into the mouth of the sheller, and thoroughly shelled and passed through the sheller in the ordinary manner.

My elevator is adapted to any sheller provided with a main shaft, to which the belt can be used to run the machinery by any suitable motor which may be desirable to use. It is simple in its construction, cheaply manufactured, and exceedingly durable.

What I claim as new, and desire to secure by Letters Patent, is—

The elevator-frame A, having a hopper-

shaped lower end to receive the ears of corn,
the frame F, having the vertical rods J and
bolts, its upper end being adapted to rest on a
corn-sheller, and provided with the bent rod
5 or strap U, in combination with the endless car-
rier C, the rollers D and D', the gear-wheels L
and M, the pulleys O and Q, and the belt P,
all as shown and described.

In testimony whereof I affix my signature in
presence of two witnesses.

WILLIAM OLIVER GOTCHALL.

Witnesses:

F. H. BOND,

T. M. MOULTON.