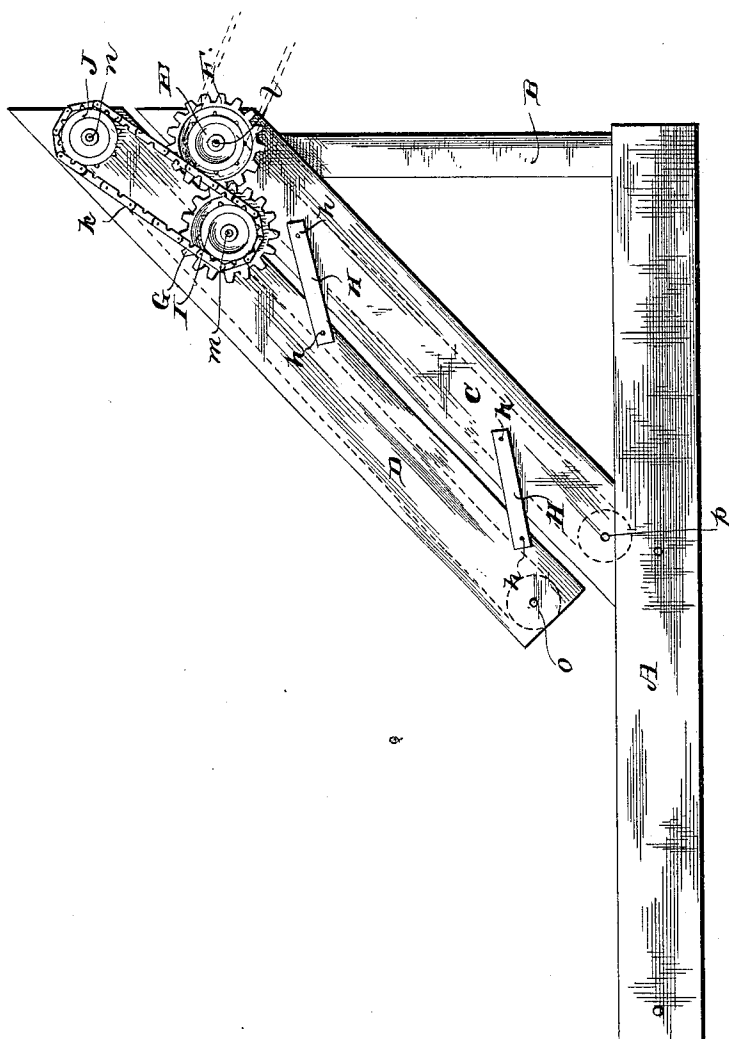


(No Model.)

L. L. MAYBERRY.
HARVESTER ELEVATOR.

No. 351,190.

Patented Oct. 19, 1886.



Witnesses
Samuel J. Mayberry
W. A. James.

Inventor
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UNITED STATES PATENT OFFICE.

LEMUEL L. MAYBERRY, OF BRISTOW, IOWA.

HARVESTER-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 351,190, dated October 19, 1886.

Application filed July 27, 1885. Serial No. 173,798. (No model.)

To all whom it may concern:

Be it known that I, LEMUEL L. MAYBERRY, a citizen of the United States, residing at Bristow, in the county of Butler and State of Iowa, have invented certain new and useful Improvements in Harvester-Elevators, of which the following is a specification, reference being had therein to the accompanying drawing.

The drawing shows a rear elevation of the platform and elevator of a harvester.

This invention relates to elevators for grain binders or harvesters, and the novelty consists in the construction and combination of the several parts, whereby automatic rising-and-falling movement of the upper-elevator apron-frame is secured, each of said frames being duly provided with endless aprons or sprocket-chains and mechanism for actuating the same, all as will now be more fully set out and explained.

In the drawing, A is the horizontal piece which forms the back of the platform.

B is a vertical post which supports the main or lower elevator, C, to which is attached the upper elevator, D, by means of the links or strips H H, which are pivoted at h h h h to the sides of the elevator C and upper elevator, D. These elevators are placed at an incline, one above and parallel with the other, and the upper elevator, D, while its endless apron is operated, as set out below, is movable to and from the under one in the operation of the device. In the ends of the elevator C are the shafts l and p, which carry the endless canvas or sprocket-chains of the lower elevator. In the ends of the elevator D are the shafts n and o, which carry the endless elevator canvas or sprocket-chains.

The canvases or sprocket-chains are driven in the following manner: The sprocket-wheel E is turned by a belt connecting it with the main gear of the machine. The wheel E is made fast to the shaft l, which is turned by it, thus driving the endless canvas or sprocket-

chains in the elevator C. The cog-wheel F is made fast to the sprocket-wheel E, and is turned by it. The cog-wheel F meshes into the cog-wheel G to turn it on the axle m, and the sprocket-wheel I, being made fast to the cog-wheel G, is carried around by it. The sprocket-wheel I is connected by a belt or chain, K, with the sprocket-wheel J, which is made fast to the shaft n, which is turned by it, thus driving the canvas or sprocket-chains in the elevator D.

The manner in which the upper elevator, D, rises and falls to accommodate itself to the ever-varying quantity of grain being elevated is as follows: The grain coming in large quantities forces the upper elevator, D, upward to give it room, and the links or levers H H hold the elevator D in such a position as to keep the cog-wheels F and G meshed to the same depth at all times. The grain is borne along between the aprons in elevators C and D. When less grain is being elevated by means of its aprons, the elevator D will fall back of its own weight, accommodating itself to the quantity of grain passing along the main or lower elevator.

Having described my invention, what I claim is—

In a harvester, the combination of the movable elevator D, having shafts at the top and bottom, respectively, the sprocket-wheels I and J, the chain k, and links or strips H H, with the main elevator C, having shafts at the top and bottom, respectively, the cog-wheel F, and sprocket-wheel E, all constructed and combined and operated in the manner and for the purposes set forth.

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

LEMUEL L. MAYBERRY.

Witnesses:

JAMES CONNOLLY,
A. H. HITCHCOCK.