

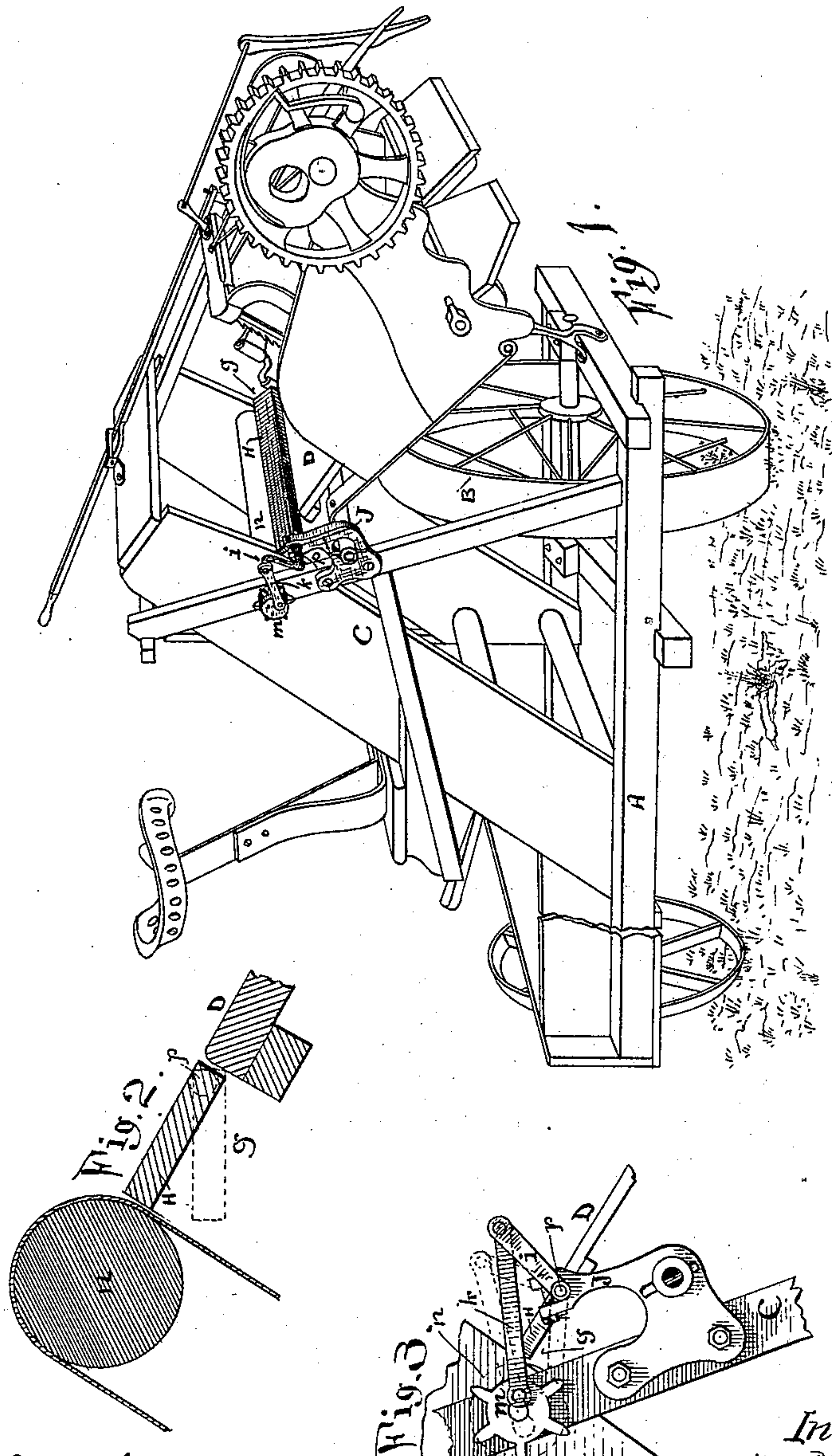
(No Model.)

W. N. WHITELEY & W. BAYLEY.

CLEARER FOR GRAIN BINDERS.

No. 370,297.

Patented Sept. 20, 1887.



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UNITED STATES PATENT OFFICE.

WILLIAM N. WHITELEY AND WILLIAM BAYLEY, OF SPRINGFIELD, OHIO;
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CLEARER FOR GRAIN-BINDERS.

SPECIFICATION forming part of Letters Patent No. 370,297, dated September 20, 1887.

Application filed October 15, 1885. Serial No: 179,957. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM N. WHITELEY and WILLIAM BAYLEY, of Springfield, in Clark county, in the State of Ohio, have invented new and useful improvements in clearers to prevent the elevator-belt from dragging straw into the space between said belt and the edge of the binder-deck, where it is liable to be jammed until the machinery is clogged and stopped, of which the following is a specification.

It consists in a vibrating board hinged along the upper edge of the deck and bridging the space between it and the apron, said board being provided with a crank and connecting-rod operated by a shorter crank on the elevator-roll.

In the accompanying drawings, Figure 1 is a perspective view of our invention. Fig. 2 is a transverse section showing the action of the invention. Fig. 3 is a rear elevation showing the mechanism whereby it is operated.

A is the main frame, and B is the main driving-wheel. The elevator-frame C is mounted on said main frame in the usual way.

D is the deck of the automatic binder, upon which the grain is continuously discharged from the elevator-belts. A space, *g*, is necessarily left between the belt and the edge of the deck D, and into this space there is continually a tendency to carry straw by the belt. Generally the straw clinging to the belt and carried down is broken on the edge of the deck, so that it will not pass clear through said space and be discharged below. Consequently there ensues an accumulation of straw packed

into said space so tightly that the elevator will sometimes be clogged and stopped and the operation of the binder interrupted. To prevent this clogging and consequent derangement we place within the space *g*, which is somewhat enlarged for the purpose, a board, H, pivoted in line with its outer edge in brackets J, attached to the elevator frame, so that the inner edge, adjacent to the belt, shall be free to vibrate up and down and break up or prevent any tendency of the straw to cling to the belt and be pulled down and clog in said space *g*.

At the rear end of the machine the pivot-pin *p* of the board H is provided with a crank, *i*, and this is connected by a rod, *k*, with a smaller crank, *m*, on the upper roller, *n*, of the elevator, so that while the elevator is in operation the board H will be constantly in vibration at its free edge, moving in close proximity to the belt and effectually preventing the passage of straw into the space *g*.

Having described our invention, we claim—

The combination of the elevator-apron, the binder-deck, the continuous clearer-board pivoted along the upper edge of the deck and bridging the open space between it and the apron, the crank on the shaft of said board, the shorter crank on the elevator-roll, and the link connecting said cranks, whereby the board is constantly vibrated to clear the apron and prevent the escape of straw beneath the deck.

WM. N. WHITELEY.
WILLIAM BAYLEY.

Witnesses:

L. PHILLIPS,
W. F. BEVITT.