

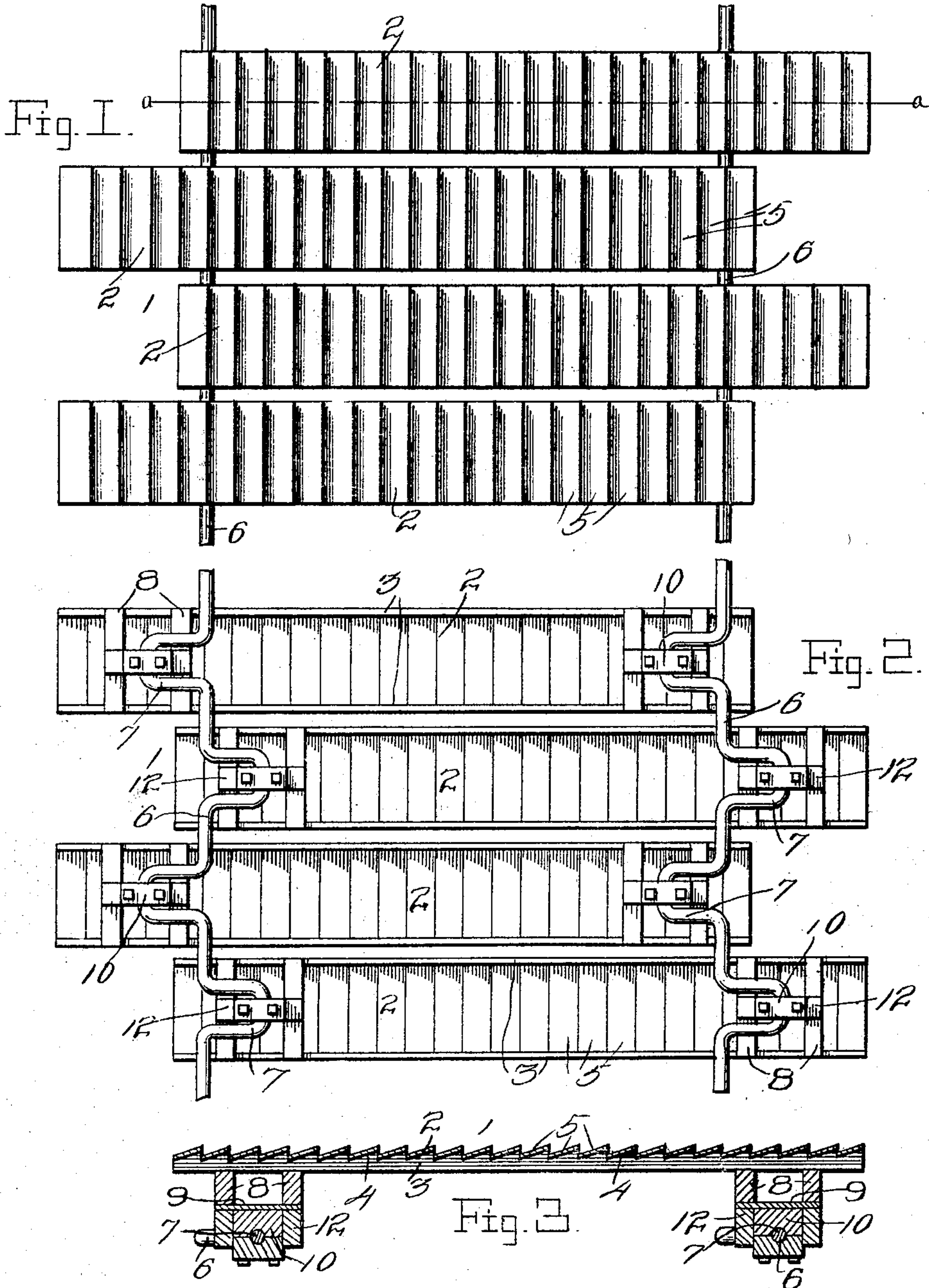
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J. JOHANNECK.
STRAW RACK FOR GRAIN SEPARATORS.

APPLICATION FILED JUNE 16, 1903.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH JOHANNECK, OF WABASSO, MINNESOTA.

STRAW-RACK FOR GRAIN-SEPARATORS.

SPECIFICATION forming part of Letters Patent No. 754,874, dated March 15, 1904.

Application filed June 16, 1903. Serial No. 161,641. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH JOHANNECK, a citizen of the United States, residing at Wabasso, in the county of Redwood and State of Minnesota, have invented certain new and useful Improvements in Straw-Racks for Grain-Separators; and I do 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 straw-racks for grain-separators.

The object of the invention is to improve the construction of straw-racks for grain-separators to cause the same to more quickly and effectually separate the grain from the straw.

A further object is to provide a rack of this character which will be simple, strong, and durable and which may be applied to threshing-machines and separators now in use.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claim.

In the drawings, Figure 1 is a top plan view of the rack. Fig. 2 is a bottom plan view of the same. Fig. 3 is a longitudinal vertical sectional view of the same.

Referring more particularly to the drawings, 1 denotes the rack, which consists of a series of longitudinally-arranged sections 2, preferably four in number. More or less, however, may be employed. Each section 2 consists of two or more supporting strips or bars 3, in the upper edges of which are formed inclined notches 4, in which are fastened the ends of slats 5, as shown.

The sections 2 are supported at each end upon crank-shafts 6, the cranked portions 7 of which lie at different angles, the cranks extending in one direction alternating with those extending in a different direction, so that where the slotted sections of the rack are placed upon these alternating crank portions of the shaft they will upon rotation of the shaft be caused to move in opposite directions—that is, when every other section is moving forward the alternating sections will

be moving backward, and vice versa. This back-and-forth movement of the alternating sections of the rack greatly facilitates the thinning and spreading out of the straw and quickly separates the grain from the straw as it leaves the threshing-cylinder.

The sections 2 may be journaled on the crank-shafts in any suitable manner, the form of connection shown in the drawings consisting of two cross-bars 8, arranged at each end of the sections 2 and fastened to the lower edges of the notched bars or strips 3, and to these cross-bars 8 are fastened plates 9, to which are bolted journal-boxes 10, in which the cranked portions of the shafts 6 are mounted. The journal-boxes 10 are braced by lugs or blocks 12, which project downwardly from the plates 9, as shown.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A straw-rack for grain-separators, comprising a series of parallel reciprocating sections, and shafts provided with cranks alternately arranged in different directions and adapted to actuate said sections, each section comprising longitudinal bars notched in their edges, slats seated in said notches, a pair of cross-bars connecting the longitudinal bars at each end, a plate connecting the cross-bars, a journal-box secured to the plate and receiving the coaxing shaft-crank, and lugs projecting from the plate and bracing said journal-box, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH JOHANNECK.

Witnesses:

F. O. ORTH,
R. H. RESORT,