

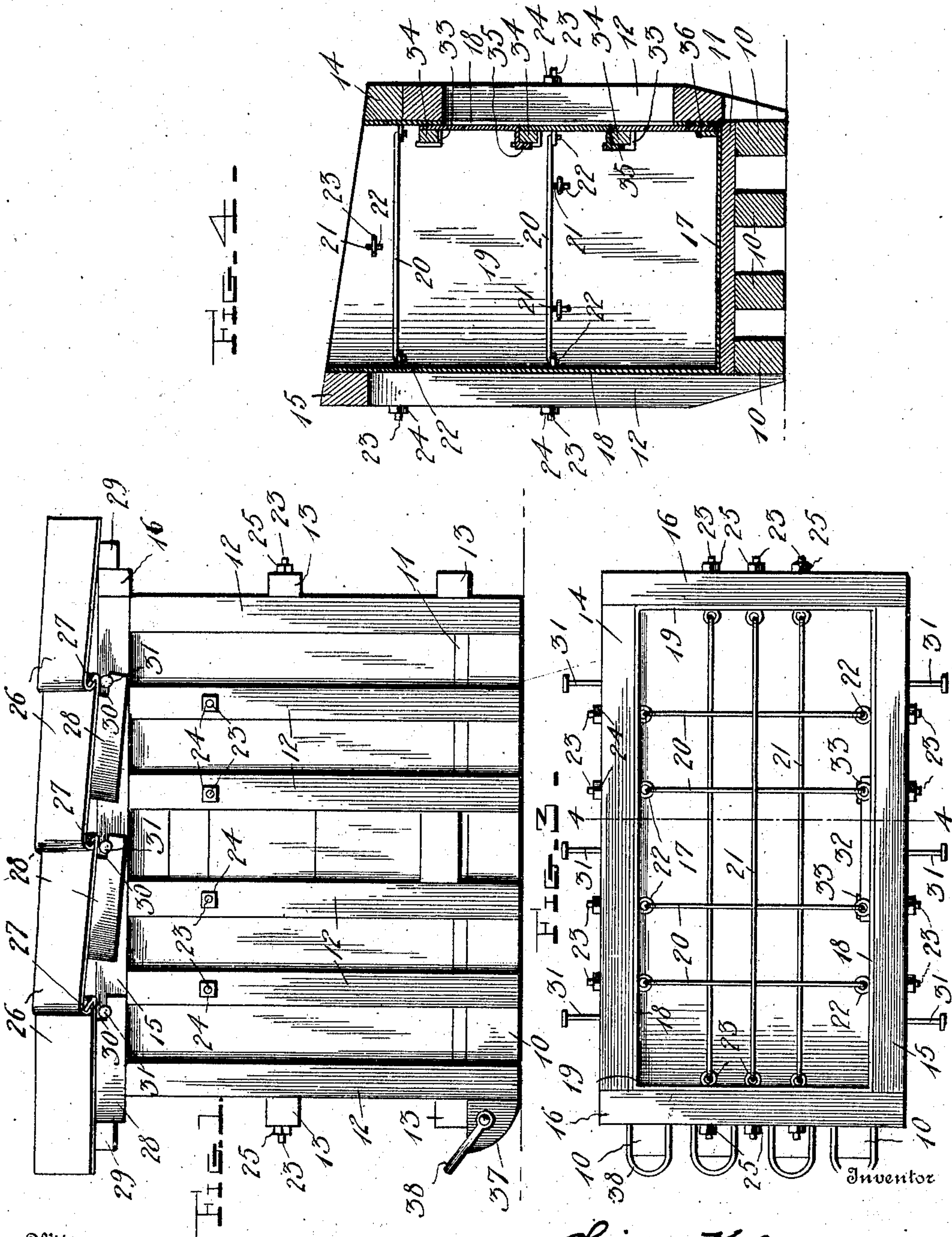
No. 846,570.

PATENTED MAR. 12, 1907.

O. KELSEY.
GRAIN BIN.

APPLICATION FILED JULY 12, 1906.

2 SHEETS—SHEET 1.



Witnesses

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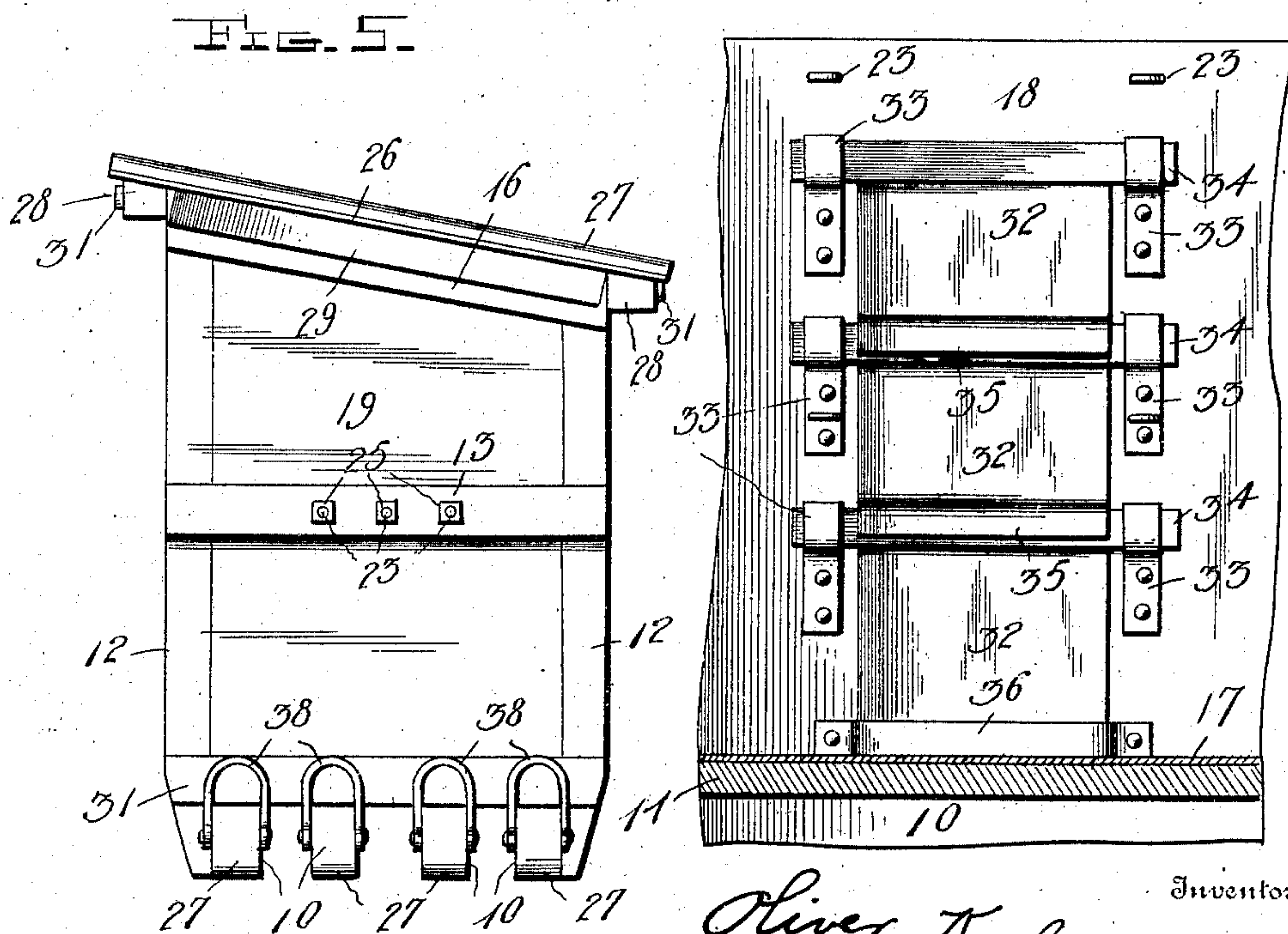
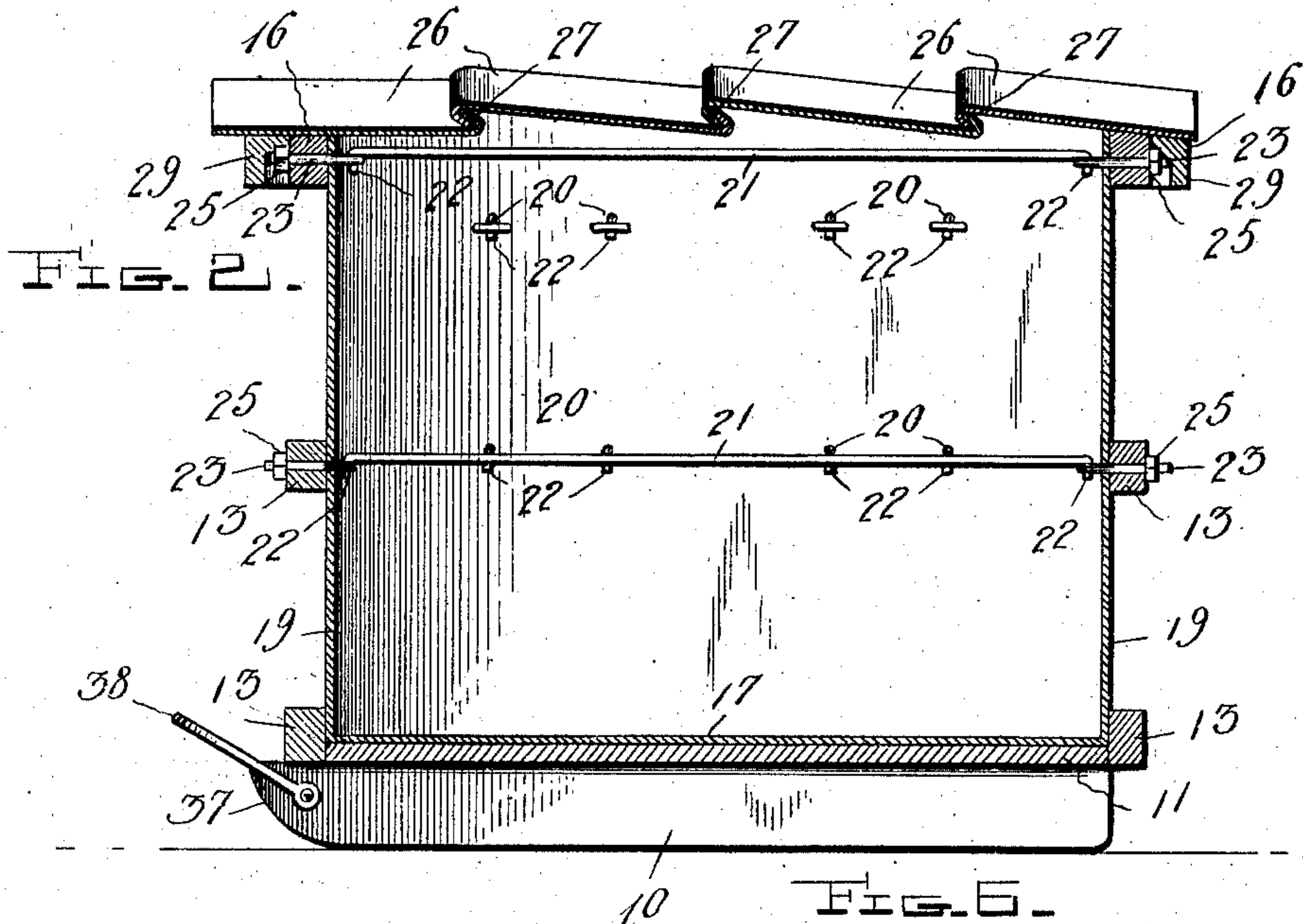
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Inventor

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UNITED STATES PATENT OFFICE

OLIVER KELSEY, OF CONNELL, WASHINGTON.

GRAIN-BIN.

No. 846,570.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed July 12, 1906. Serial No. 325,878.

To all whom it may concern:

Be it known that I, OLIVER KELSEY, a citizen of the United States, residing at Connell, in the county of Franklin and State of Washington, have invented new and useful Improvements in Grain-Bins, of which the following is a specification.

This invention is a grain-bin, and has for its object to provide a strong and durable bin embodying certain novel features of construction to be hereinafter described and claimed.

A further object is to provide a bin which can be transported.

In the accompanying drawing, Figure 1 is a front elevation of the bin. Fig. 2 is a longitudinal section. Fig. 3 is a plan view with the roof or cover removed. Fig. 4 is a transverse section on the line 4 4 of Fig. 3. Fig. 5 is an end view, and Fig. 6 is an inside view, of the door to the bin.

Referring specifically to the drawings, 10 denotes the ground-sills or runners on which the bin is mounted. On top of the sills is fastened a floor 11. To the outside sills are secured upright posts 12, the end ones of said posts being connected by cross-beams 13. Across the top of the posts 12 on each side of the bin extend longitudinal beams 14 and 15, respectively, which are connected at their ends by cross-beams 16.

The parts so far described constitute a rectangular supporting-frame for the bin proper, which comprises a bottom 17, sides 18, and ends 19. This bin is made of suitable sheet metal and fits snugly inside the frame.

The walls of the bin are braced by tie-rods to prevent them from spreading. These tie-rods are inside the bin, and one set of such rods (indicated at 20) connects the side walls, and another set (indicated at 21) connects the end walls. The tie-rods have hooked ends 22, which engage eyebolts 23, extending from the walls. The eyebolts to which the tie-rods 20 are fastened extend through the posts 12 and on the outside thereof are threaded to receive fastening-nuts 24. The eyebolts to which the rods 21 are fastened extend through the cross-beams 13 and 16 and are also threaded on the outside to receive fastening-nuts 25.

The bin is provided with a roof or cover

comprising separable sheet-metal sections 26. The adjacent ends of the sections have folds 27, which interlock to form a water-tight joint. Secured to the sections 26 adjacent the top and bottom edges thereof are cleats 28, which extend behind the cross-beams 14 and 15, and the end ones of the sections also have cleats 29, which extend behind the cross-beams 16. In one end of the cleats 28 are recesses 30, which receive pins 31, extending from the cross-beams 14 and 15, for retaining or locking the roof on the bin. The construction herein described securely fastens the roof on the bin and provides a water-tight closure. The roof can be readily removed by first sliding one of the end sections forward until it is disengaged from the pin 31, after which it can be lifted up from the bin. The other sections are removed in the same manner. The rear side of the bin is higher than its front side, so that a sloping or shed roof is had.

In the front side of the bin is a doorway having a door which is in three sections, (indicated at 32.) The door-sections are secured on the inside of the bin on hook-shaped brackets 33, fastened to the front wall of the bin on the inside thereof adjacent both sides of the doorway. Each door-section comprises a sheet-metal plate having on the back thereof and adjacent its top edge a cross-bar 34, which projects from both ends of the plate and is placed in the bracket 33. The lower end of the plate is bent inwardly and downwardly, as at 35, to fit snugly on the cross-bar 34 of the next section below. The lower edge of the bottom door-section extends into a recess formed by a strip 36, secured to and spaced from the bin. By a door constructed and mounted in the doorway as herein described a tight closure is had and leakage of grain is effectually prevented.

One end of the sills 10 are rounded, as at 37, and have bails 38 for attachment of draft-animals, so that the bin can be readily transported when empty.

The bin herein described can be cheaply manufactured, and it effectively serves the purpose for which it is intended.

I claim—

In a grain-bin, a receptacle having pro-

jecting pins on the outside thereof on opposite sides, a removable cover, and cleats secured to the cover adjacent opposite edges thereof and slidable lengthwise under the
5 aforesaid pins, the ends of the cleats being recessed to receive the pins.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

OLIVER KELSEY.

Witnesses:

THEODORE OSCAR BUEHLER,
FRED LINDAU.