

No. 731,085.

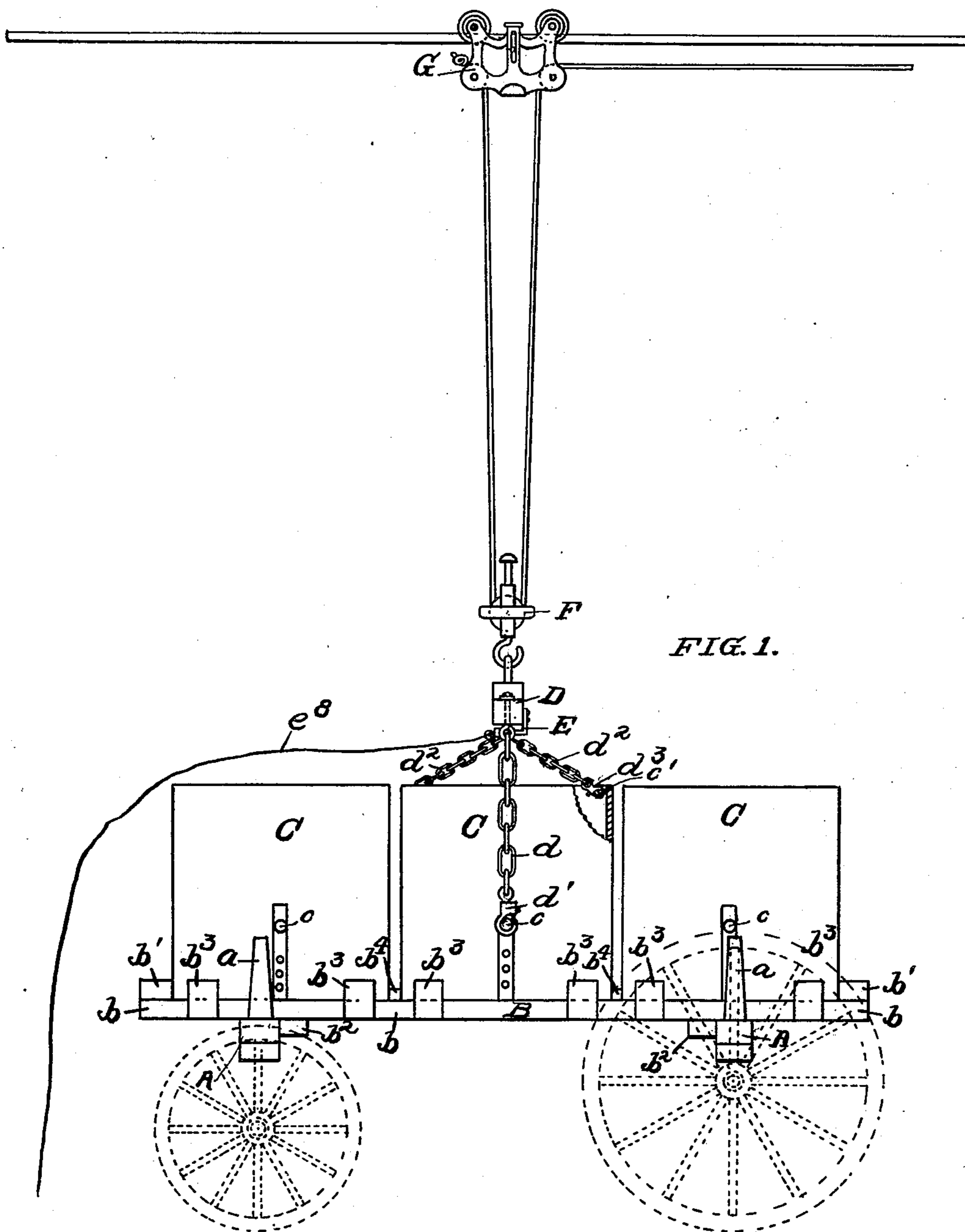
PATENTED JUNE 16, 1903.

W. C. TICHENOR.
APPARATUS FOR CRIBBING CORN.

APPLICATION FILED SEPT. 12, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses
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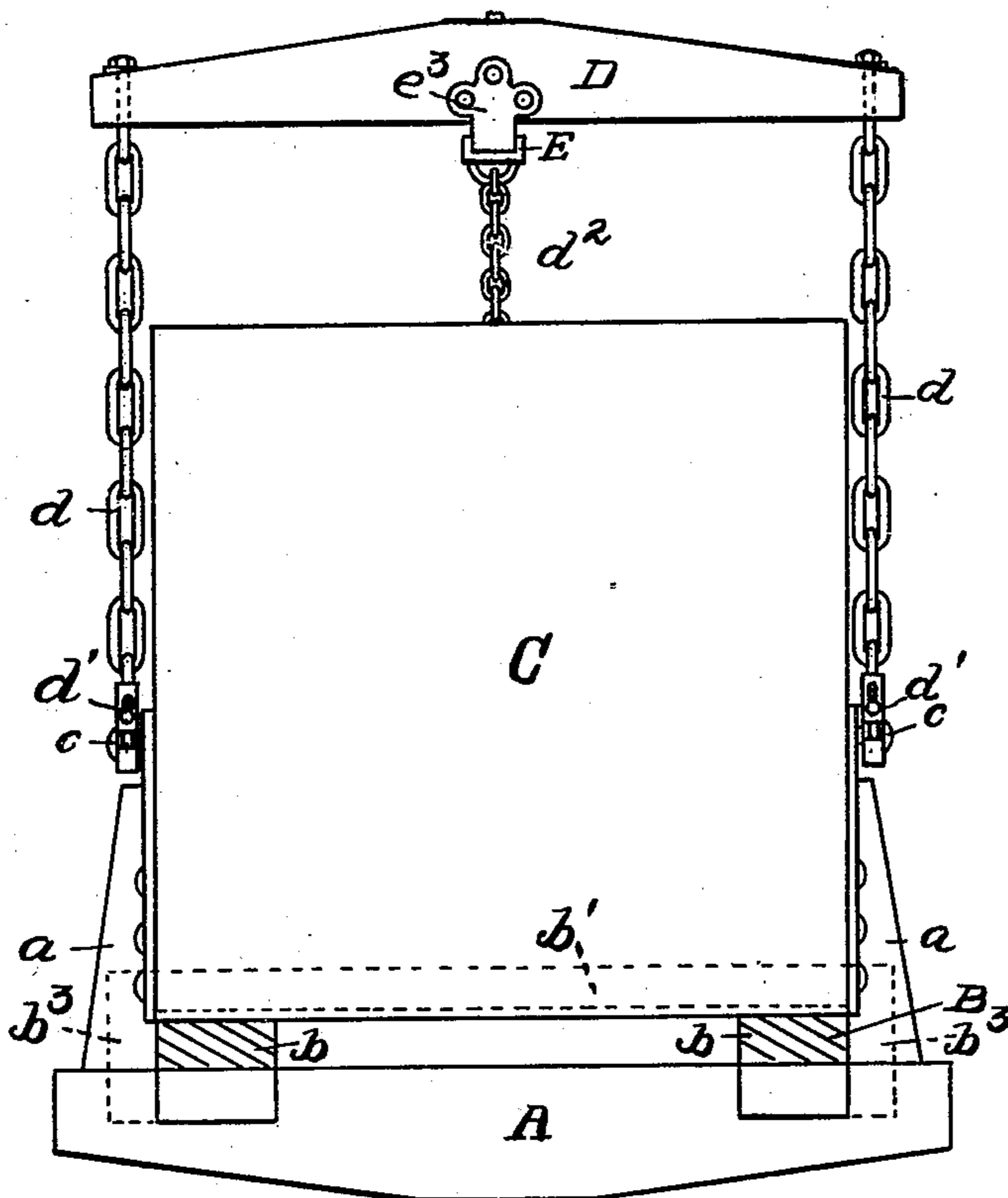
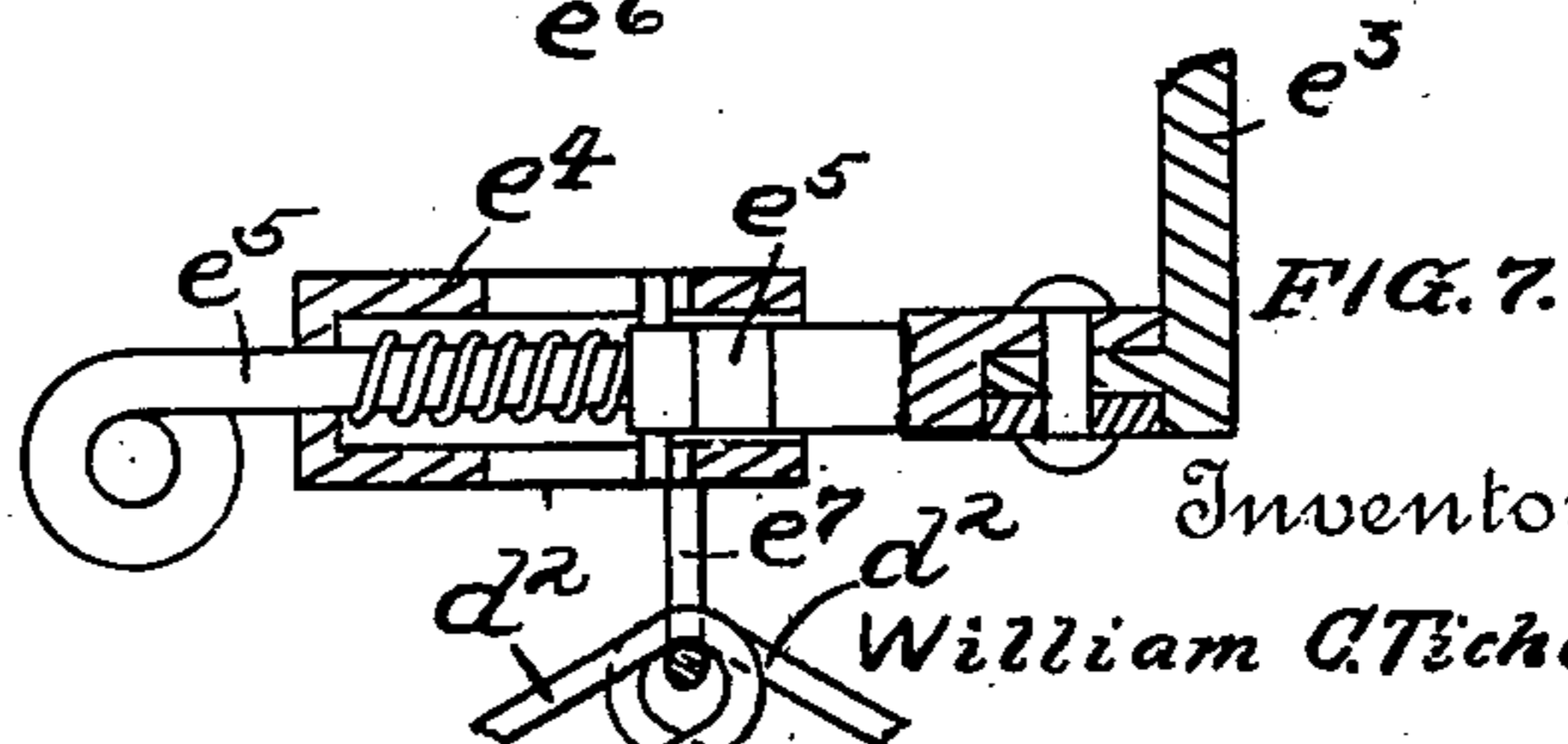
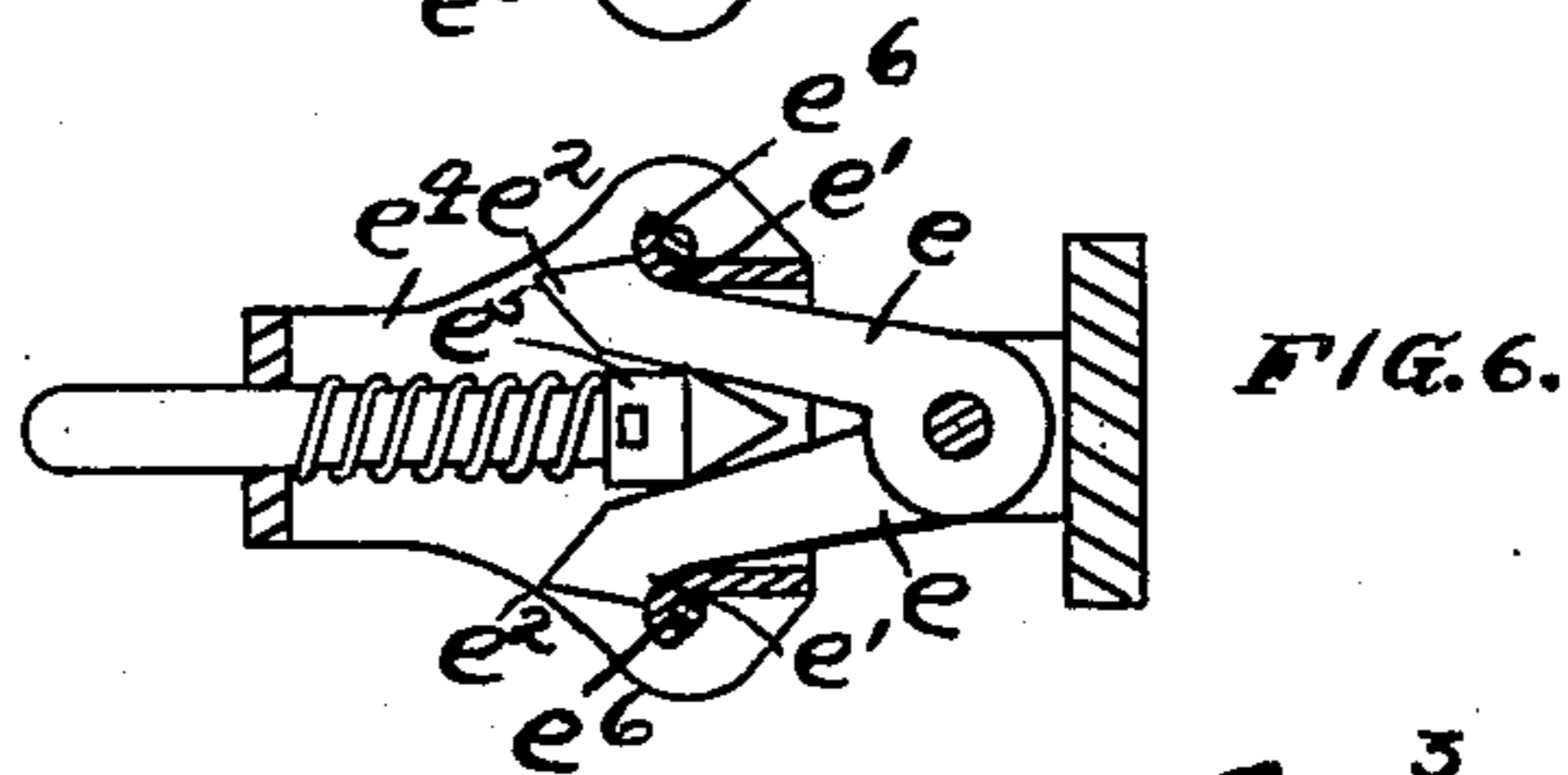
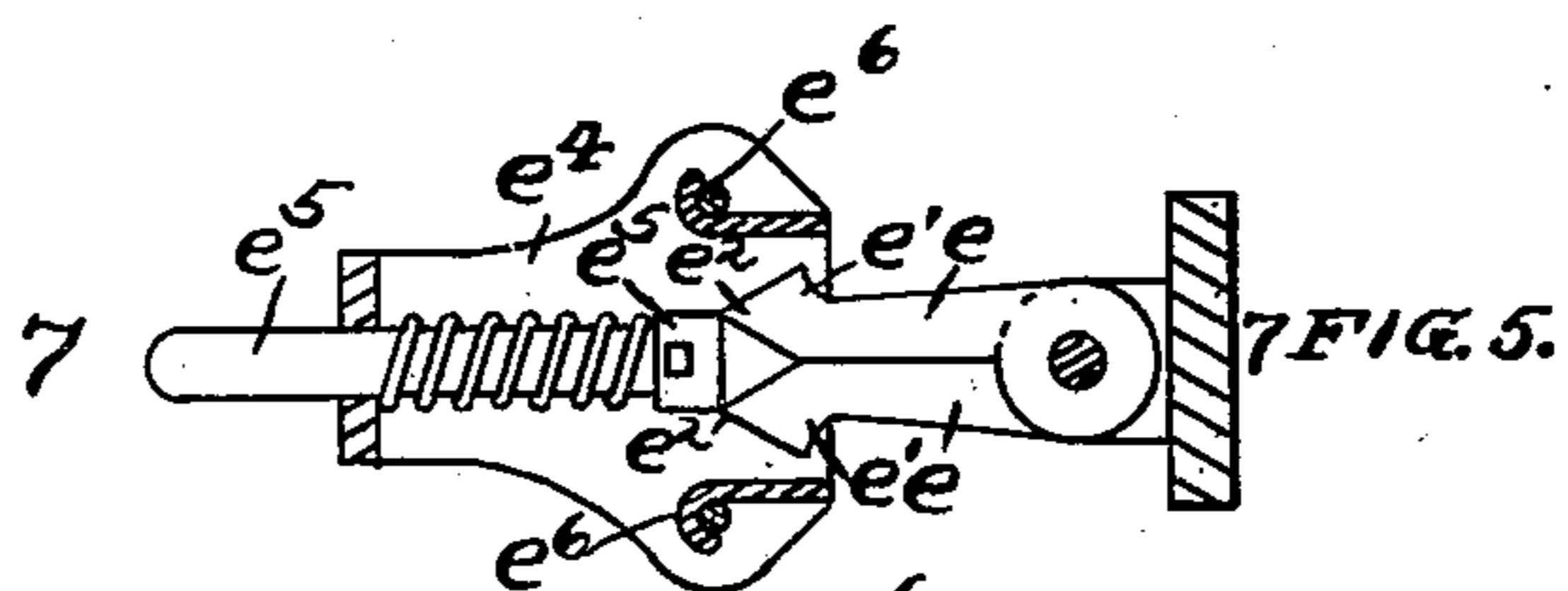
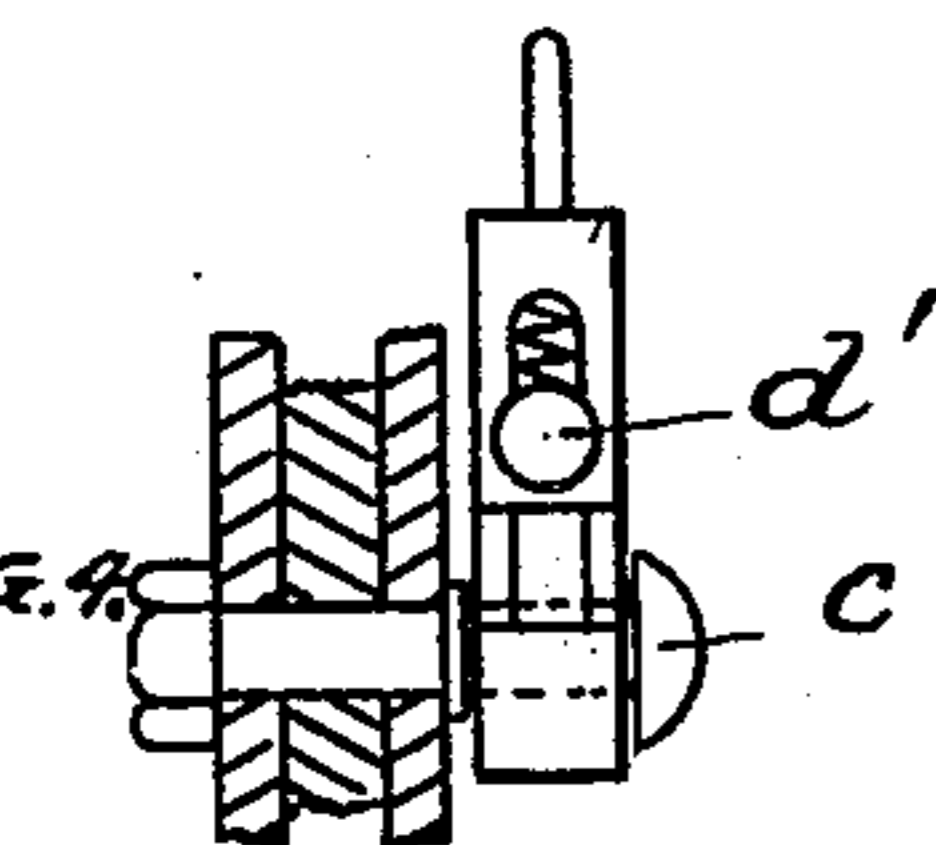
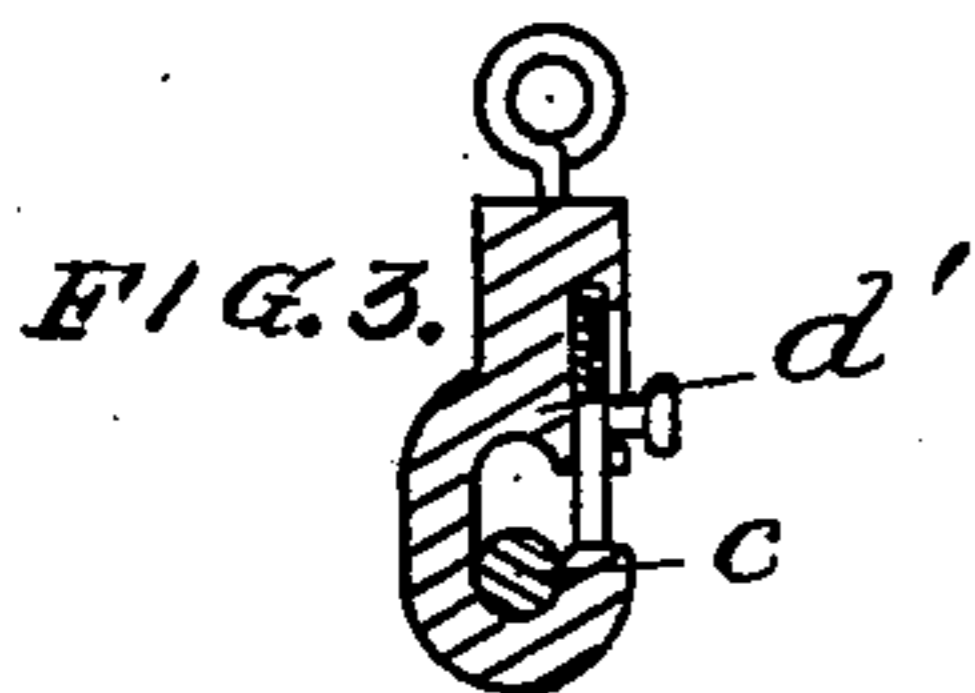


FIG. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM C. TICHENOR, OF LEBANON, OHIO.

APPARATUS FOR CRIBBING CORN.

SPECIFICATION forming part of Letters Patent No. 731,085, dated June 16, 1903.

Application filed September 12, 1902. Serial No. 123,044. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. TICHENOR, a citizen of the United States, residing at Lebanon, in the county of Warren and State of Ohio, have invented certain new and useful Improvements in Apparatus for Cribbing Corn, of which the following is a specification.

The object of my invention is to provide an apparatus especially adapted for the conveyance of corn and its economical cribbing.

My invention consists in the combinations and arrangements of parts hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of a wagon and hoisting apparatus embodying my invention; Fig. 2, a transverse section of the wagon-bed; Fig. 3, a detail section of the hoisting-hook; Fig. 4, a side view corresponding to Fig. 3; Fig. 5, a horizontal section of the trip mechanism; Fig. 6, a horizontal section showing the trip mechanism in locked position; Fig. 7, a section on line 7 7 of Fig. 5.

Reference-letter A represents the bolsters of a wagon-bed; B, a box-frame mounted thereon; C, wagon-body sections mounted on frame B; D, a hoisting-beam; E, a trip mechanism; F, a hoisting-block, and G the car of a hoisting apparatus.

The bolsters A are the usual bolsters of an ordinary jolt-wagon bed, which are mounted upon the usual wagon-axles in the usual way. The bolsters A are provided with the usual standards *a* for holding the wagon-body or other load in position.

The body-frame B consists of longitudinal beams *b*, resting on bolsters A and secured together at their ends by cross-beams *b'*, secured across the tops of the ends of beams *b*. Stops *b²* on the bottoms of beams *b* take inside of both bolsters and prevent longitudinal displacement of the bed, while standards *a* prevent sidewise displacement.

The wagon-body is made up of box-like sections C, mounted on frame B. The end beams *b'* prevent longitudinal displacement of the box-sections C, and side stops *b³* are provided for preventing sidewise displacement. Cross-strips *b⁴* are secured across the tops of beams *b* between sections C to prevent crowding of the sections longitudinally. Each of the sections C is provided with hoisting-pins

c, which serve as pivotal mountings for hoisting and dumping sections C. The hoisting-beam D is of a length to span the sections C and is provided with chains *d*, having snap-hooks *d'*, which are adapted to engage pins *c*. Chains *d²*, having snap-hooks *d³* engaging eyes *c'* on the front and rear sides of sections C, are attached to the trip mechanism E, which is secured to hoisting-beam D.

The trip mechanism E consists of pivoted arms *e*, having shoulders *e'* and beveled noses *e²* and secured to beam D by means of flange *e³*. A casing *e⁴* carries a spring-wedge *e⁵* and locking-stops *e⁶*. Chains *d²* are attached to casing *e⁴* by means of loop *e⁷*. A trip-rope *e⁸* is attached to and operates wedge *e⁵*. When the casing *e⁴* is forced over arms *e*, the wedge *e⁵*, passing between arms *e*, forces them apart, so as to cause shoulders *e'* to engage stops *e⁶*, where they are held by the action of the wedge-spring. This locks the casing *e⁴* to beam D, and the chains *d²* being attached to the opposite ends of sections C prevent accidental dumping. When it is desired to dump the section, a pull on rope *e⁸* withdraws the wedge from between arms *e*, permitting their disengagement from stops *e⁶*. A further pull on rope *e⁸* frees the casing *e⁴* and consequently the chains *d²* from beam D, leaving the section C free to dump, which is readily accomplished by pulling on rope *e⁸*, which is now directly connected by one of the chains *d²* to one end of the section. If preferred, the body-sections C may be provided with hinged bottoms capable of being tripped to permit them to open and dump the contents of the sections.

The block F and car G are parts of any preferred form of hoisting or carrying apparatus by means of which the sections C may be raised and carried to any desired position in the crib for dumping.

In operation the corn is preferably husked directly into sections C on the wagon-bed. The load is then hauled to the crib, which is provided with a hoisting and carrying apparatus. Chains *d* of beam D are attached to the pins *c* of one of sections C by means of snap-hooks *d'*. Chains *d²* are attached to eyes *c'* by means of snap-hooks *d³*, and trip mechanism E is set to lock chains *d²* to beam D. The hoisting and carrying apparatus is

then utilized in the usual way to convey the sections to the desired position for dumping, when a pull on rope e^8 trips the section and dumps it. The empty section is then returned to its position on the wagon-box, the beam D disengaged therefrom and attached to a full section, this section dumped, and so on until all the sections are dumped and returned to the wagon, which is then ready for another load. Thus a load of corn may be unloaded in a very few minutes.

While the apparatus herein shown and described is designed for and is especially adapted for cribbing corn, it may be used for other purposes, and while I have shown and described the preferred form of application of my invention this is capable of many variations without departing from the spirit of the invention. I therefore do not wish to be limited to the form of apparatus shown and described; but

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

1. The combination, with the bolsters and standards of a wagon-bed, of longitudinal beams resting on the bolsters inside of the standards; stops for preventing longitudinal movement of the beams; two or more wagon-body sections resting upon the beams; stops for preventing longitudinal and sidewise displacement of the sections; hoisting and carrying apparatus for conveying the sections; and trip mechanism for dumping the sections, substantially as specified.

2. The combination, with the bolsters and standards of a wagon-bed, of longitudinal beams resting on the bolsters inside the standards; stops for preventing longitudinal movement of the beams; two or more wagon-body sections resting upon the beams; end beams secured across the tops of the ends of the longitudinal beams, adapted to distance said

longitudinal beams and serve as stops to prevent longitudinal displacement of the body-sections; strips across the tops of said longitudinal beams intermediate of the body-sections; side stops for preventing sidewise displacement of the body-sections; hoisting and carrying apparatus for conveying the sections; and trip mechanism for dumping the sections, substantially as specified.

3. The combination of a wagon-bed; a wagon-body frame adapted to rest upon the bed; means for preventing its displacement; a wagon-body composed of two or more separate sections adapted to rest upon the frame; means for preventing displacement of the sections; carrying-pins on opposite sides of each of the sections; a hoisting-beam adapted to span the sections; hangers on the hoisting-beam adapted to engage the pins on the sections; hoisting and carrying apparatus adapted to engage the beam and convey the sections; and trip mechanism for dumping the sections, substantially as specified.

4. The combination, with the bolsters and standards of a wagon-bed, of a wagon-body frame resting upon the bolsters; wagon-body sections C resting upon the frame and provided with side pins c ; hoisting-beam D provided with chains d having snap-hooks d' adapted to engage pins c ; chains d^2 having snap-hooks d^3 adapted to engage eyes c' on section C; trip mechanism connecting chains d^2 to beam D; means for operating the trip mechanism to dump sections C; and hoisting and carrying apparatus adapted to engage the beam and convey the sections, substantially as specified.

W. C. TICHENOR.

Witnesses:

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