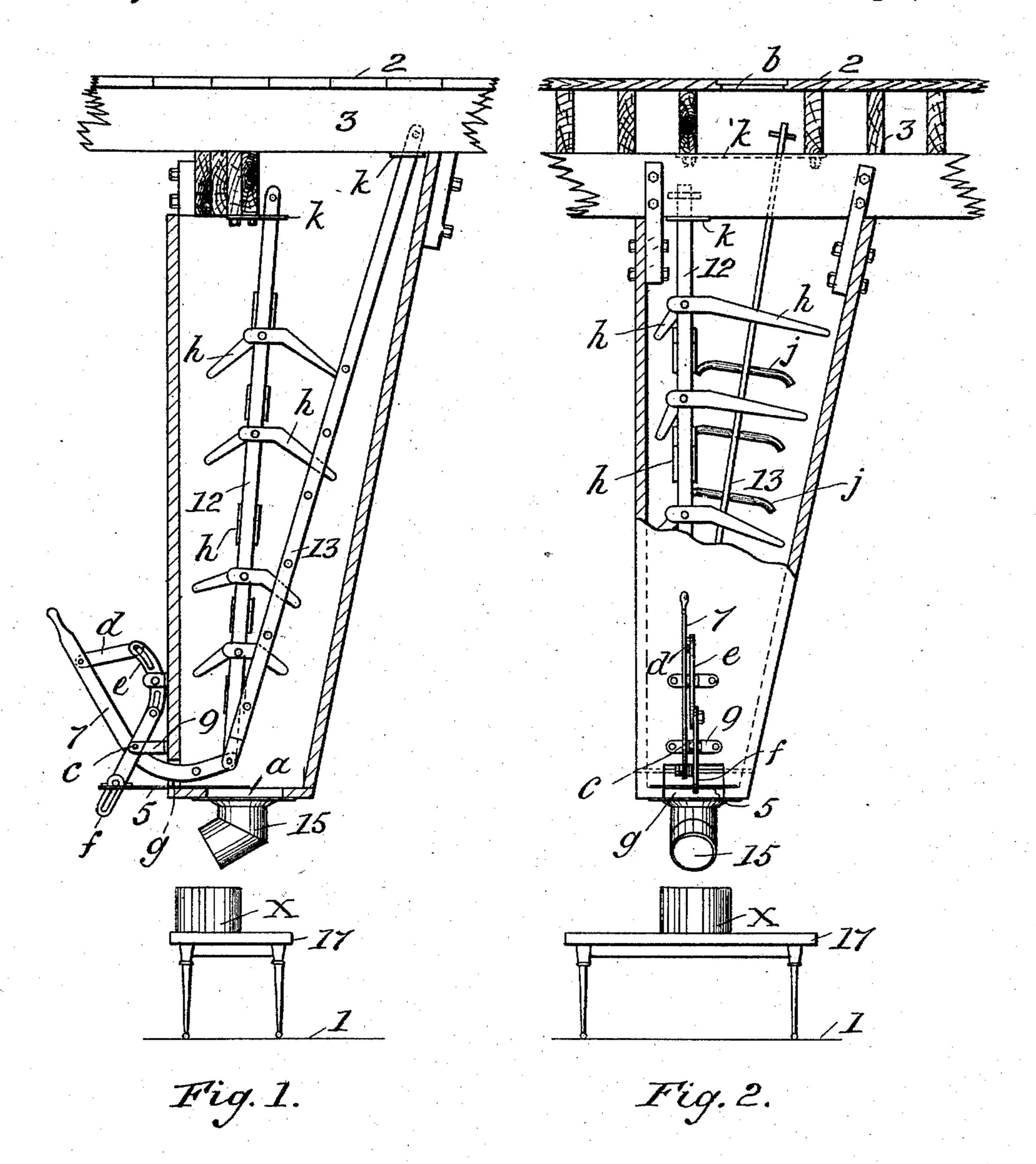
## W. HEYSER. FEED REGULATOR. APPLICATION FILED DEC. 11, 1909.

966,833.

Patented Aug. 9, 1910.



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## UNITED STATES PATENT OFFICE.

WILLIAM HEYSER, OF BALTIMORE, MARYLAND.

## FEED-REGULATOR.

966,833.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed December 11, 1909. Serial No. 532,569.

To all whom it may concern:

Be it known that I, WILLIAM HEYSER, of the city of Baltimore and State of Maryland, have invented certain Improvements in 5 Feed-Regulators, of which the following is

a specification.

This invention is for the purpose of effecting the rapid and regular feeding of crushed ice into receptacles, and particularly the 10 spaces between vessels containing perishable articles such for instance as oysters and fish, and the outer packing cases, as will hereinafter fully appear.

In the further description of the said in-15 vention which follows, reference is made to the accompanying drawing forming a part

hereof and in which,—

Figure 1 is a partly sectional side elevation of the improved apparatus, and Fig. 2 20 a partly sectional front view of the same.

Referring now to the drawing, 1 is the lower floor of a building upon which the packing of the ice receptacles takes place, and 2 an upper floor upon which crushed ice 25 in bulk is dumped in order that it can be shoveled into a bin the construction of which will now be described. The said bin consists of a box of preferably rectangular crosssection and of downwardly tapered form in 30 order that the crushed ice will be guided to the discharge opening a at the bottom of the box. The bin 4 is pendent from the upper floor 2 and secured in any suitable manner to the joists 3 thereof. The crushed ice is introduced into the bin

through a hatch b which is shown as uncovered in Fig. 2, and is discharged by withdrawing a gate 5 from over the opening abefore referred to, by means of the hand le-<sup>40</sup> ver 7 which is pivoted at c to a bracket 9 extending from the side of the bin, and connected by the links d, e and f to the said

gate.

Crushed ice when tightly packed in a re-<sup>45</sup> ceptacle such as the bin above described, does not readily fall therein by gravity, and in opening the gate a discharge may or may not take place, and should it take place there is no certainty that it will be uniform or 50 constant while the gate is open. It is therefore necessary that the contained ice should be vertically shaken, and according to the present invention the shaking of the ice takes place simultaneously with the opening <sup>55</sup> and closing of the discharge gate.

12 and 13 are bars the lower ends of

which are brought together and pivoted to the arm of the hand lever 7 which is curved and extends through a slot g in the wall of the box to a point about the center of the 60

discharge opening a.

The bar 12 which is nearly vertical and directly over the discharge opening a, is provided with radially extending and downwardly inclined branches h, and when 65 it is moved up or down in the closing and opening of the gate, has the effect of raking down the crushed ice and facilitating its intermittent delivery to a vessel underneath the bin. The other bar 13 is provided with 70 rakers j which penetrate the mass of crushed ice where not fully acted upon by the bar 12 and its branches, and as it has a motion in common with the bar 12, the entire body of ice is stirred by the movement of the 75 hand lever. Both of the bars 12 and 13 are suitably guided at their upper ends by means of slotted plates k through which they pass.

15 is a delivery spout to conduct the dis- 80 charged ice to the receptacle X beneath and which is shown as standing on a bench 17.

A receptacle being in a proper position on the bench and ready to receive a charge of crushed ice, the attendant rapidly vibrates 85 the hand lever which alternately opens and closes the discharge gate, and at the same time so agitates the body of ice in the box that it is discharged freely each time the gate is opened.

I claim as my invention:—

In a feed regulator, a bin having a discharge opening, a hand lever pivoted to the bin with one of its ends extending into the same, a system of bars which are pivoted to 95 the inner end of the hand lever and extend upwardly within the bin, and raking devices carried by the said bars, combined with a gate to open and close the discharge opening in the bin, and suitable links which 100 unite the hand lever with the gate, the whole being arranged so that in the opening and closing of the gate through the medium. of the hand lever and its connecting links, the said bars carrying the raking devices 105 are given an up-and-down movement, substantially as, and for the purpose specified.

WILLIAM HEYSER.

Witnesses:

tnesses:
Thomas G. Hull,