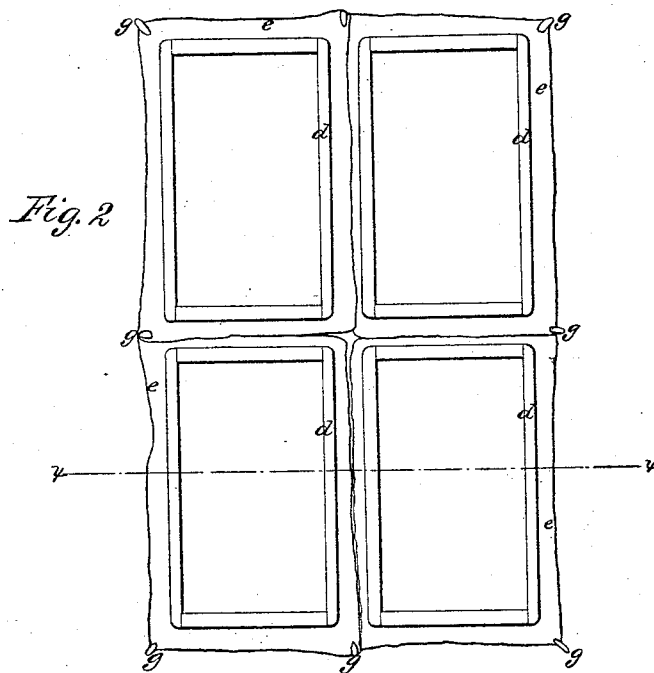
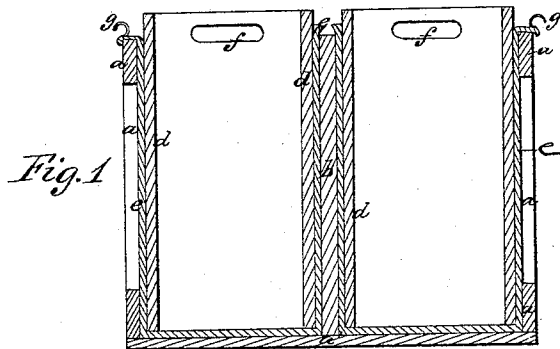


W. R. CRANDALL.
HOP BOX.

No. 78,433.

Patented June 2, 1868.



Witnesses
W. C. Ashkettle
J. A. Morgan

Inventor:
W. R. Crandall
per Munniffe
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United States Patent Office.

WILLIAM R. CRANDALL, OF DEANSVILLE, NEW YORK.

Letters Patent No. 78,433, dated June 2, 1868.

IMPROVED HOP-BOX.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM R. CRANDALL, of Deansville, in the county of Oneida, and State of New York, have invented a new and improved Hop-Box; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a cross-section of my improved box through the line *x x* of fig. 2.

Figure 2 is a top view of the box.

Similar letters of reference indicate corresponding parts.

The object of this invention is to facilitate the sacking of hops from the hop-box commonly employed in hop-yards during the picking-season.

The boxes, as heretofore made, consisted of a cubical box, about six feet long and four feet wide, divided into four equal compartments by partitions, when these compartments were filled with hops by the pickers.

The sacking operation was performed by lifting the hops over the edge of the box by armfuls, and depositing them in a sack held by a second person in close proximity to the hop-box.

My improved box consists of a cubical box or frame, *a a a*, &c., divided into four equal compartments by partitions *b*, which latter may be framed like the sides of box.

This frame or box is provided with a bottom, *a'*, which supplies a bottom to each of the four bottomless boxes *d d d d*, which latter slide loosely within the compartments, as shown.

The sacks *e e e e*, &c., are slipped on over the bottomless compartment-boxes *d d d d*, as shown, so that, when each box is filled, the said boxes may be drawn from the compartments, leaving the hops within the sacks.

The sacks may then be tied and lifted out, and the compartments are again lined with other sacks, and the boxes returned to the compartments for a repetition of the operation.

This invention enables the sacking of hops to be performed in an expeditious manner, and without the aid of a second person to hold the sacks.

The handles of the compartment-boxes are shown at *f f*, and *g g g*, &c., are hooks for hooking the sacks.

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

The hop-boxes *a a a a*, and bottomless compartments-boxes *d d d d*, substantially as shown and described, constructed and employed together, all as and for the purpose set forth.

W. R. CRANDALL.

Witnesses:

OTIS L. JENKS,

T. F. BELLINGER.