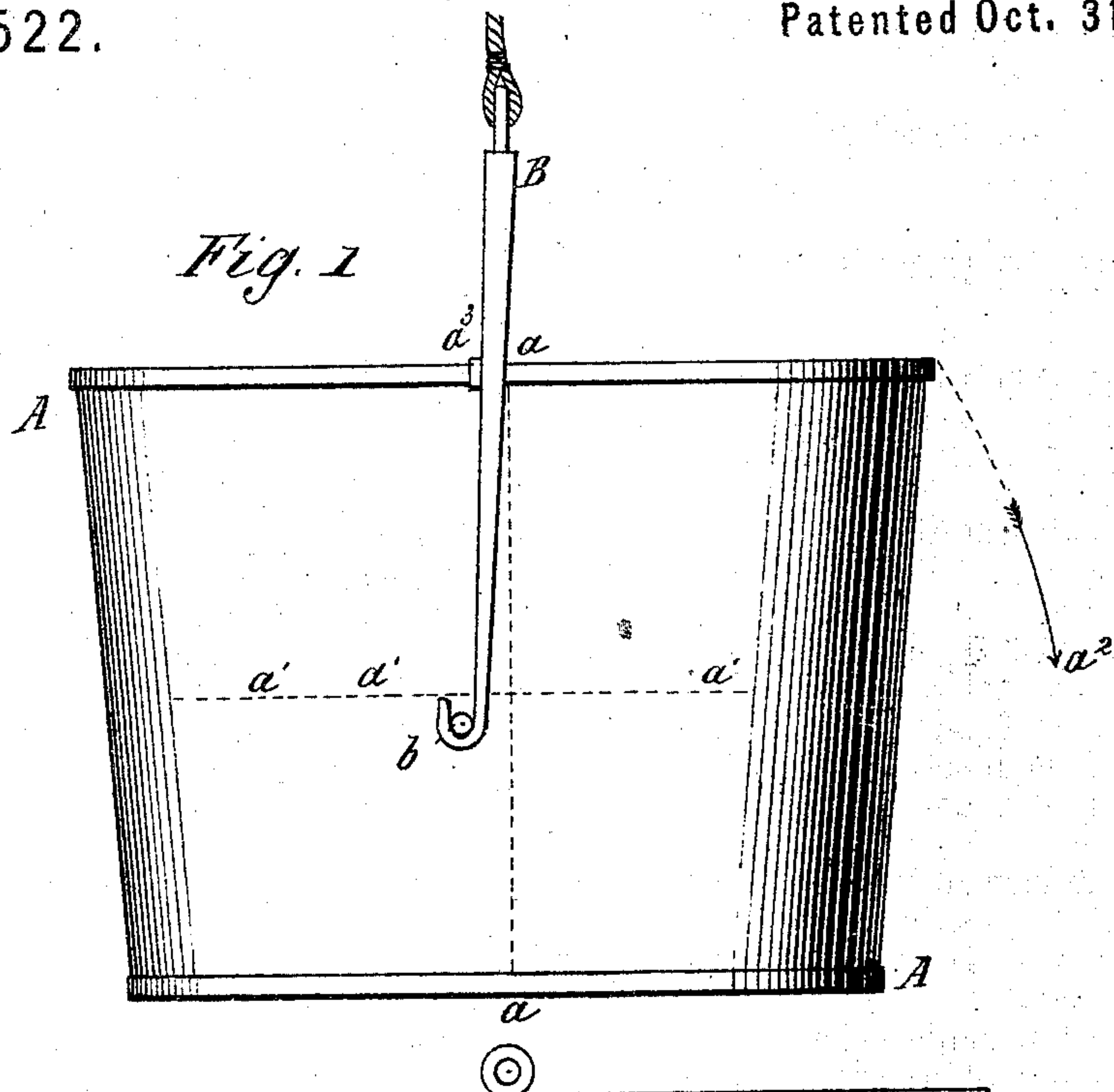


EDWIN J. HULBERT & N. AUBIN.

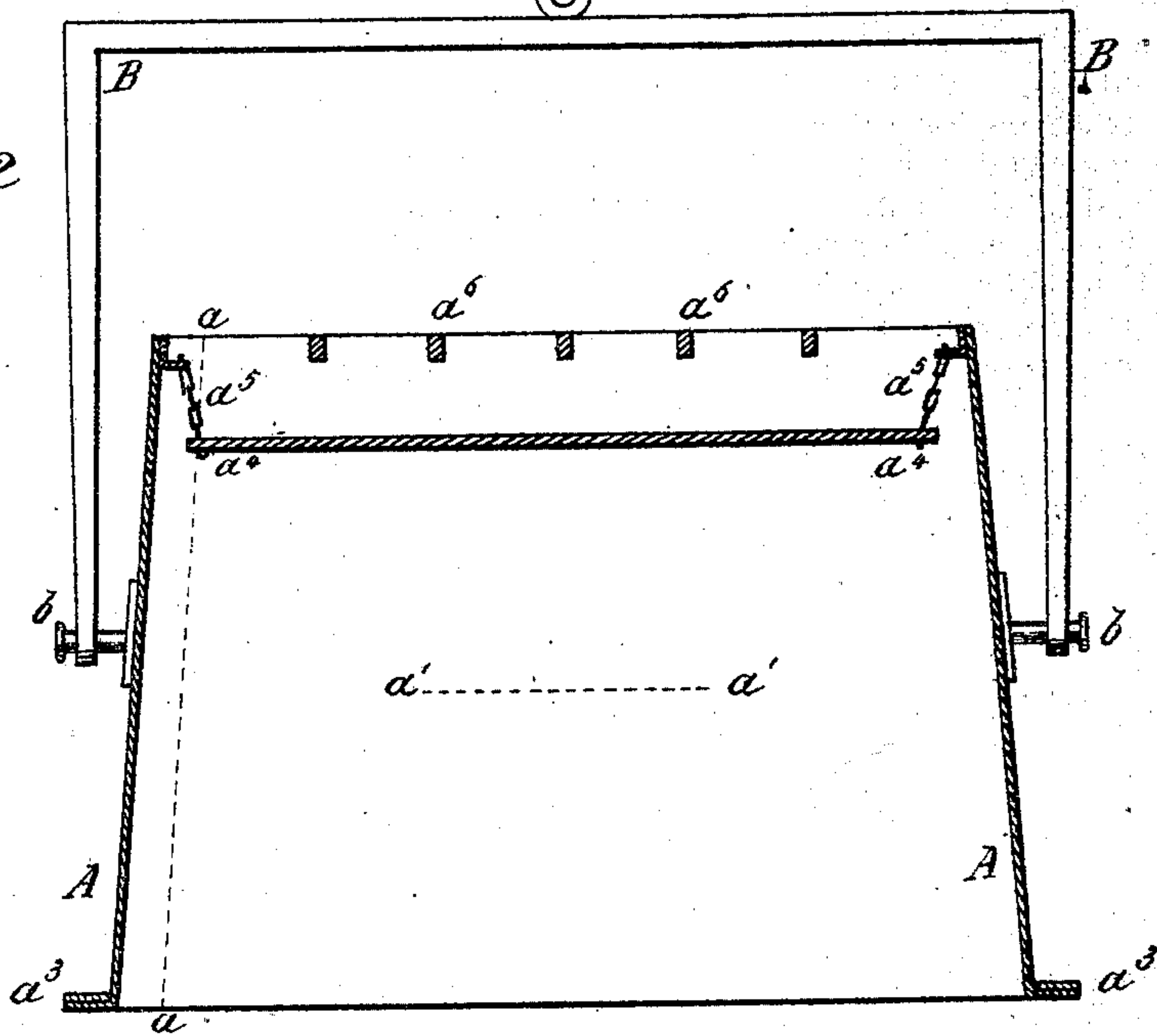
Improvement in Hoisting Buckets.

No. 120,522.

Patented Oct. 31, 1871.



*Fig. 2*



Witnesses

Francis C. Hulbert.

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# UNITED STATES PATENT OFFICE.

EDWIN JAMES HULBERT AND AIMÉ NICHOLAS N. AUBIN, OF PORTLAND, CT.

## IMPROVEMENT IN HOISTING-BUCKETS.

Specification forming part of Letters Patent No. 120,522, dated October 31, 1871.

*To all whom it may concern:*

Be it known that we, EDWIN JAMES HULBERT and AIMÉ NICHOLAS N. AUBIN, of Portland, in the county of Middlesex and State of Connecticut, have invented certain Improvements in Buckets for Hoisting Crude Peat, of which the following is a specification:

Our invention relates to the combination of an eccentric suspension with a movable bottom, in order to prevent the formation of a vacuum in the bucket when it is upset, and thereby to facilitate the dumping of peat or other plastic substance.

Figure 1 is a side view of the bucket when suspended in an upright position. Fig. 2 is a front sectional view of the same when inverted for dumping its contents.

A A is the bucket, made of metal or wood. The dotted lines *a a a' a'* indicate the position of two imaginary planes dividing the bucket into equal halves, horizontally or vertically. *b b* are the projecting pins or axles for suspending the bucket. As can be observed in Fig. 1, these pins are placed a little beside the center of vertical division and below the center of horizontal division, so that the bucket, when raised, would have a tendency to tip in the direction of the arrow *a<sup>2</sup>*. *a<sup>3</sup> a<sup>3</sup>*, projecting studs which rest upon the bail

B, and thus keep the bucket in an upright position when it is being hoisted; *a<sup>4</sup> a<sup>4</sup>*, movable bottom, suspended by the short chains or rods *a<sup>5</sup> a<sup>5</sup>* when the bucket is inverted for dumping. When the bucket is in an upright position the bottom rests upon the bars or grating *a<sup>6</sup> a<sup>6</sup>*. B, bail or handle for raising the buckets. It remains attached to the hoisting-rope and holds the buckets by the hooks *b b*.

The operation of our improved device is easily understood by a mere reference to the drawing. Crude peat, when thrown into the bucket, packs closely and forms an adhesive mass in the vessel, which, when the latter is inverted, is in great part retained there by atmospheric pressure. Our arrangement, by permitting the ready admission of air around the bottom, completely removes the difficulty.

We claim as our invention—

The combination of the detached bottom, suspended by chains or rods, with the supporting-pins eccentrically fixed to the bucket, the whole constructed substantially and for the purpose hereinbefore set forth.

EDWIN J. HULBERT.

Witnesses: N. AUBIN.

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(79)