2 Sheets--Sheet 1.

T. WEBBER.

Dumping Attachment for Offal Presses.

No. 168,545. Patented Oct. 5, 1875.

Fig 1

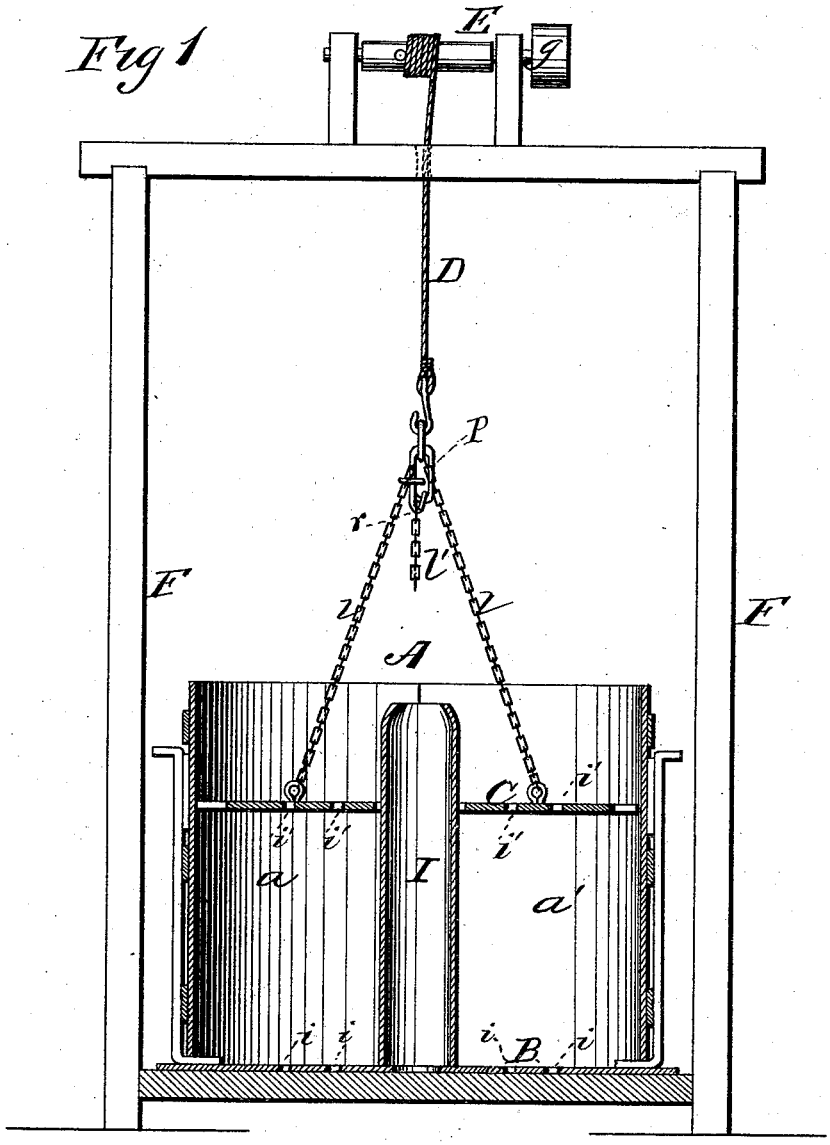
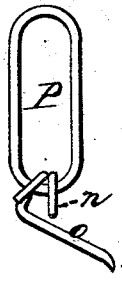


Fig 2



WITNESSES

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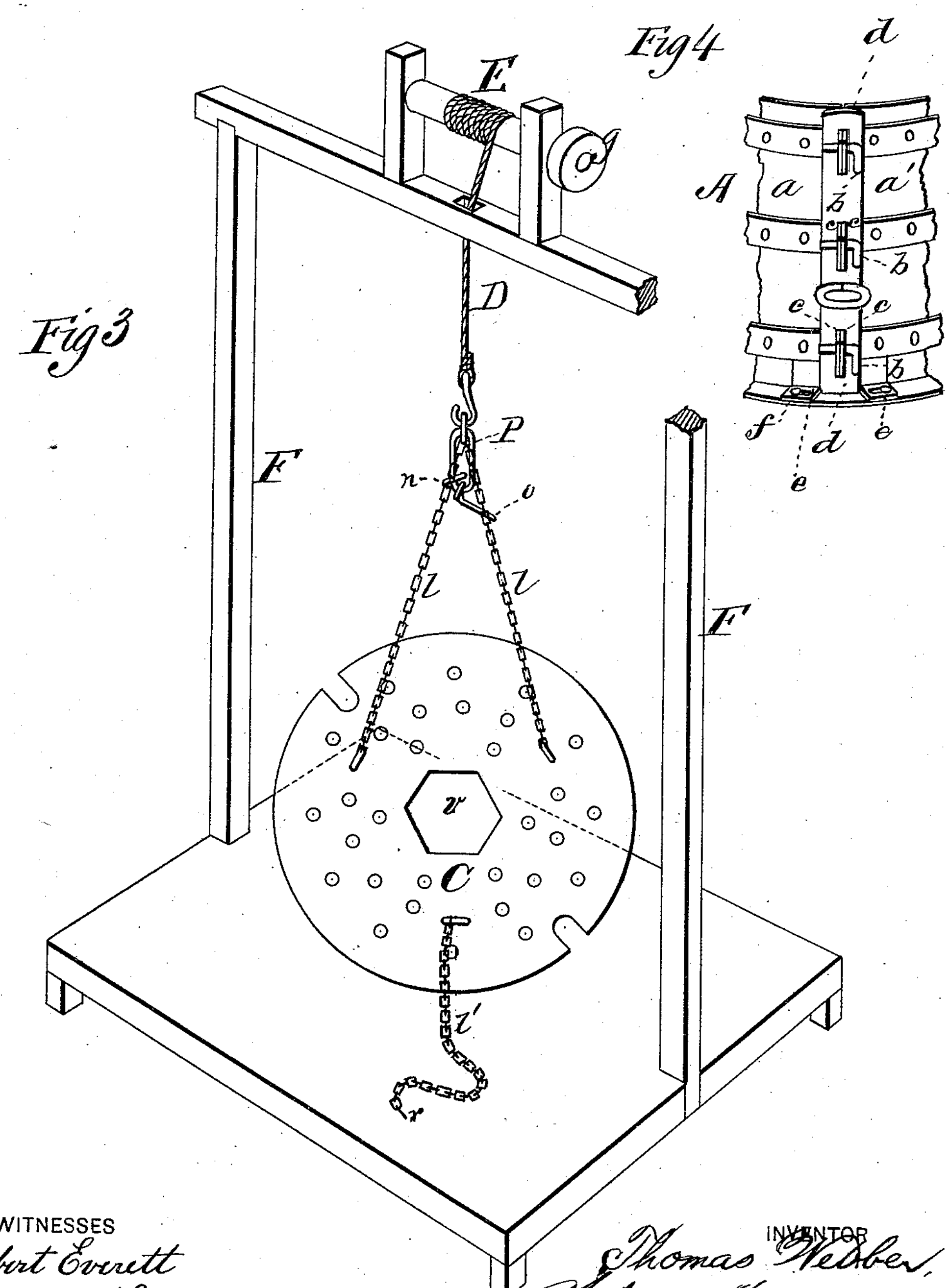

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UNITED STATES PATENT OFFICE.

THOMAS WEBBER, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN DUMPING ATTACHMENTS FOR OFFAL-PRESSES.

Specification forming part of Letters Patent No. **168,545**, dated October 5, 1875; application filed September 11, 1875.

To all whom it may concern:

Be it known that I, THOMAS WEBBER, of Chicago, in the county of Cook and State of Illinois, have invented a new and valuable Improvement in Dumping-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical central section of my machine, and Fig. 2 is a view of the link-buckle. Fig. 3 is a perspective view of the machine, and Fig. 4 is a detail view.

This invention has relation to improvements in tank-offal-pressing machines. The object of the invention is mainly to devise a reliable and operative means for raising the offal out of a press-box wherein it had been subjected to pressure for the purpose of expressing any oily or watery matters remaining after the boiling process.

The nature of the invention consists, mainly, in the combination, with a press-box, of a detached vertically-movable false bottom, and a hoisting and a tripping device, whereby very useful and novel results are obtained, as will be hereinafter more fully explained and claimed.

In the annexed drawings, the letter A represents a preferably metallic press-box, which may be of cylindrical form, and is composed of sections *a a'*, which are locked together by means of keys *b* passing through perforated lugs *c* on the vertical edges of the sections, and by means of slotted tie-rods *d*. These sections are provided with slotted lugs *e* upon their lower edges, through which are passed bolts *f*, by means of which they are loosely secured to the bottom B of the press-box.

When the pins are drawn out of the lugs, and the tie-rods taken off of the latter, the sections of the press-box may be separated for the purpose of increasing its diameter.

Bottom B is perforated throughout its whole extent, and a false bottom, C, of corresponding shape, lying thereon, is also perforated, the apertures *i* of the former registering with those *i'* of the latter, so that the oily and watery matter may have free exit from the press-box.

The tank-offal has been heretofore placed upon the press-box bottom, and subjected to a very strong pressure by a follower actuated by a suitable motor. The oil and water run out through perforations *i*, leaving the residuum or waste in a nearly-solid state, which renders its extrication exceedingly difficult and tedious.

This has been the great objection heretofore to this method of freeing tank-offal of oil and water, and I have overcome it in the following manner: The false bottom is first placed in the press-box, with its perforations registering with those of the real bottom. The offal is then placed in the same and subjected to expressive force. This being completed, the sides of the press-box are separated by removing pins and tie-rods. The false bottom bearing the cake of waste is then hoisted out of the press-box by means of an elevating-rope, D, and a winch or drum, E, mounted above the tank upon a frame or platform, F, and operated by means of a crank-arm or pulley, *g*. In practice, false bottom C will be attached to the lower end of elevating rope or chain D by three chains, two of which, *l*, will be permanently attached thereto, and the third, *l'*, rigidly secured to the false bottom, but detachably so to the elevating-rope.

The cake being raised free of the press-box, the latter is then pushed to one side, and the supporting-chain *l'* detached from the elevating-rope, when the bottom C will vibrate into the vertical plane, causing the cake to tear through the remaining chains, and to be dumped on the ground.

In practice I prefer to use the following tripping device for the purpose just described: The free end of chain *l'* is provided with a ring, *r*, and the oblong link P, to which chains *l* are attached, with a movable ring, *n*, and a strong tongue, *o*, which latter is applied to the link so as to move freely thereon. Ring *r* is passed over the free end of the tongue, which is then vibrated upward, and the movable ring *n* passed over its end, as seen in Fig. 1, there-

by securing the trip-chain *l'* to the link P. To trip bottom C it is necessary to knock ring *n* off the tongue, when the latter will release the ring *r* on the said chain with the desired result. The center of the cake will be drained by a hollow upright core, I, rising from the bottom B of the press-box in a central position, and false bottom C will be similarly and centrally perforated, as shown at *v*, to allow of its being put in place within the press-box. In order that the perforations in the real and false bottoms may be made to register without unnecessary trouble, this core is of prismatic form, and the opening in the center of the false bottom will be of corresponding form; consequently it will be held in a constant position when being lowered into the press-box, and having been started properly, no subsequent rotation will cause its perforations to fail to register with those of the bottom B.

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

1. In a tank-offal press, the combination, with a press-box, A, of the detached false bottom C, an elevating-winch, and a tripping device, substantially as specified.

2. In combination with a false bottom, C, having perforations *i'* and a central prismatic aperture, *v*, the press-box A, having bottom B, with perforations *i*, and a central prismatic core, I, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS WEBBER.

Witnesses:
WALTER C. MASI,
B. H. MORSE.