

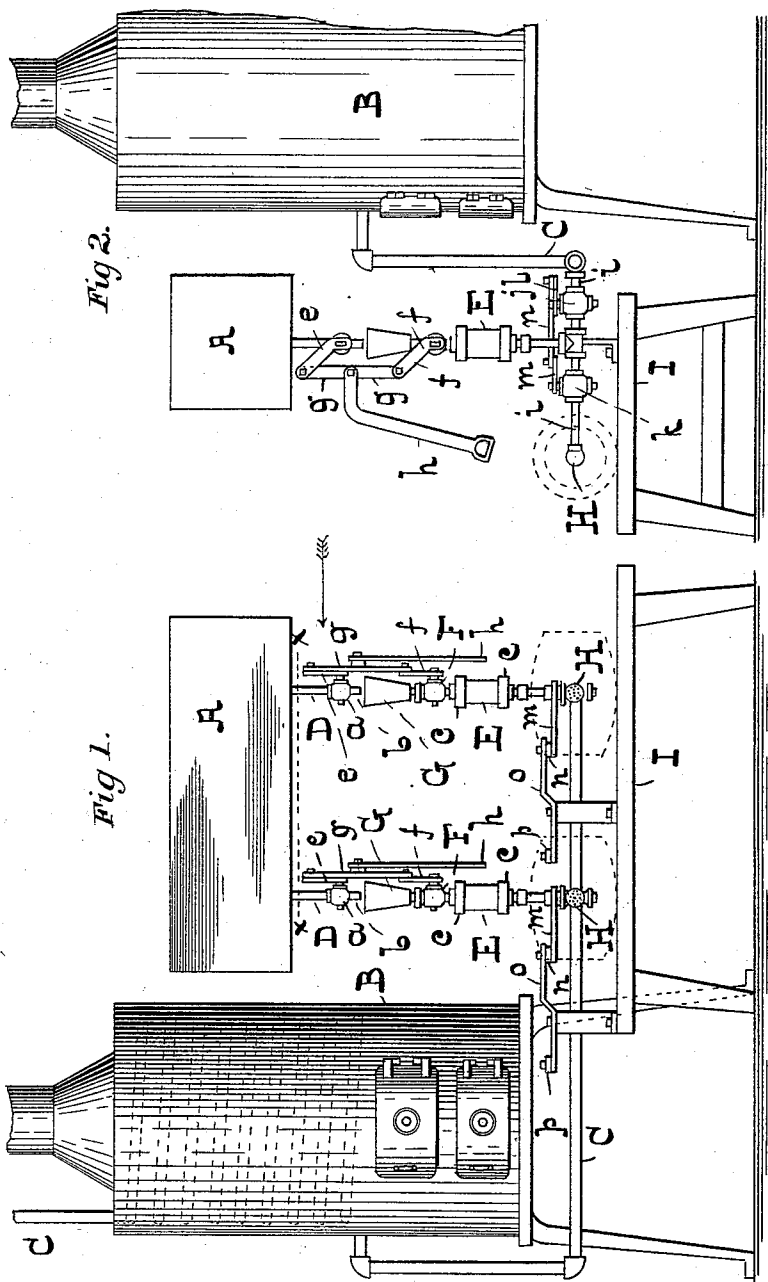
(No Model.)

2 Sheets—Sheet 1.

O. DORN.
APPARATUS FOR PITCHING BARRELS.

No. 538,869.

Patented May 7, 1895.



-WITNESSES-

Don't Fisher
George Hensley

-INVENTOR-

Otto Dorn,
by W. H. T. Ward
att.

No Model.)

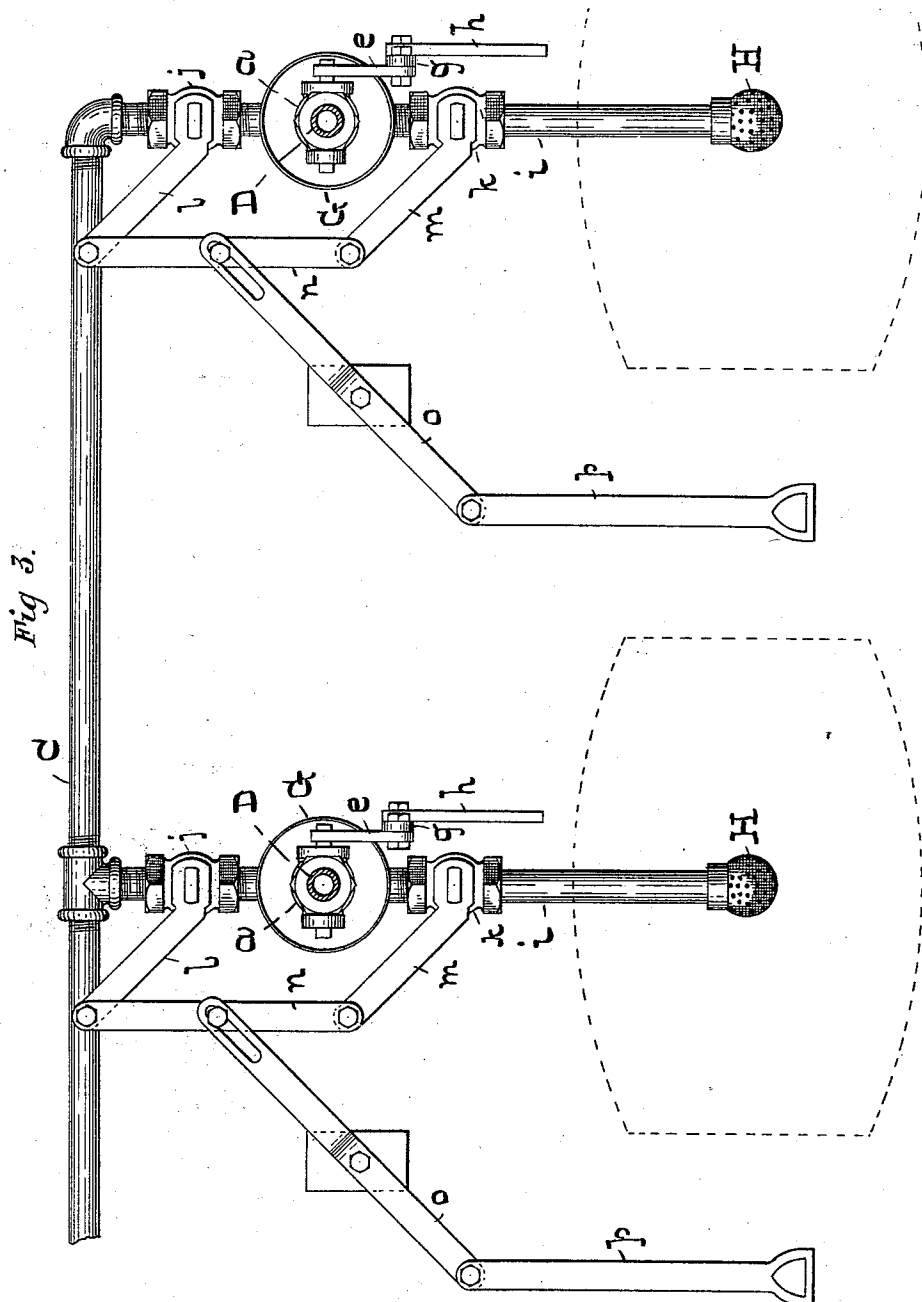
2 Sheets—Sheet 2.

O. DORN.

APPARATUS FOR PITCHING BARRELS.

No. 538,869.

Patented May 7, 1895.



-WITNESSES-

Dan'l Fisher.
 George Hemslay

- INVENTOR -

Otto Born,
by Geo. W. T. Howard,
att'y.

UNITED STATES PATENT OFFICE.

OTTO DORN, OF BALTIMORE, MARYLAND.

APPARATUS FOR PITCHING BARRELS.

SPECIFICATION forming part of Letters Patent No. 538,869, dated May 7, 1895.

Application filed July 5, 1894, Serial No. 516,534. (No model.)

To all whom it may concern:

Be it known that I, OTTO DORN, of Baltimore, Maryland, have invented certain Improvements in Apparatus for Pitching Barrels or Kegs, of which the following is a specification.

In the description of the said invention which follows, reference is made to the accompanying drawings forming a part hereof, and in which—

Figure 1 is an exterior side view of the apparatus. Fig. 2 is an exterior end view of the same, looking in the direction indicated by the arrow. Fig. 3 is an enlarged section of Fig. 1, taken on the dotted line *x x*.

Referring to the drawings, A is a tank or reservoir for holding melted pitch to be used in treating barrels or kegs.

B is a furnace of any appropriate construction, for super-heating steam to be used as a vehicle for distributing pitch within the barrels.

C is a steam pipe leading from a boiler, not shown, and it passes through the furnace B in the form of a coil which is shown in dotted lines in Fig. 1.

D D are pipes leading from the bottom of the pitch tank or reservoir A having cocks *a* and discharge nozzles *b*. As both the pipes D and their connections are the same, only one complete pitching apparatus will be described although two are shown.

E is a pitch holder consisting preferably, of a piece of ordinary pipe having heads *c* screwed thereon.

F is a cock connected to the upper head *c* of the holder E, and G a funnel extending from the cock F and situated directly under the nozzle *b* of the pipe D.

The cocks *a* and F have arms respectively denoted by *e* and *f* connected by a link *g* which effects their common movement, and the link *g* is provided with a handle *h* whereby both cocks are simultaneously opened and closed.

The steam pipe C after leaving the furnace is turned down, and then passed along horizontally in the rear of the tank A and provided with branches *i*, one being for each pitching apparatus. In each branch is a T whereby it is connected to the pitch holder

E and at each side of the T is a cock *j* and *k*. These cocks have arms *l* and *m* united by a link *n* which is operated by a lever *o* and a handle *p*. The extreme end of the branches *i* of the steam pipe C is provided with a rose or sprinkling head H.

I is a bench upon which the barrels to be pitched are placed.

The barrels or kegs are shown in dotted lines in all the figures.

Fire being in the furnace, and the tank A supplied with liquid pitch, the operation of pitching a barrel is as follows: The cocks *j* and *k* are closed, and the cocks *a* and F opened, which allows melted pitch to enter the funnel G, pass down through the cock F and fill the holder E and the branch pipe *i* between the cocks *j* and *k*. As soon as the pitch rises to the top of the funnel the cocks *a* and F are closed. The barrel or keg is now placed over the rose head or nozzle H and the cocks *j* and *k* simultaneously opened. The super-heated steam then drives all the pitch from the holder and the branch pipe, to the interior of the barrel in the form of fine spray, which completely coats the inner surface of the barrel. As soon as the holder is exhausted of its pitch, the cocks *j* and *k* are closed and the barrel removed, and placed in the ordinary barrel rolling machine. The process as described is then repeated with a fresh barrel.

Old pitched barrels may be cleansed by using steam alone, the holder being empty.

I claim as my invention—

In an apparatus for pitching barrels, the combination of a reservoir for pitch having a discharge nozzle and a controlling cock, a receptacle for pitch having a controlling cock connected to the first controlling cock by devices whereby both may be opened and closed simultaneously, a steam pipe connected to the discharge portion of the said receptacle having cocks adapted for simultaneous opening and closing, the said cocks being arranged to admit steam to the pitch, and at the same time open a discharge for the mixture of pitch and steam, substantially as specified.

OTTO DORN.

Witnesses:

WM. T. HOWARD,
DANL. FISHER.