

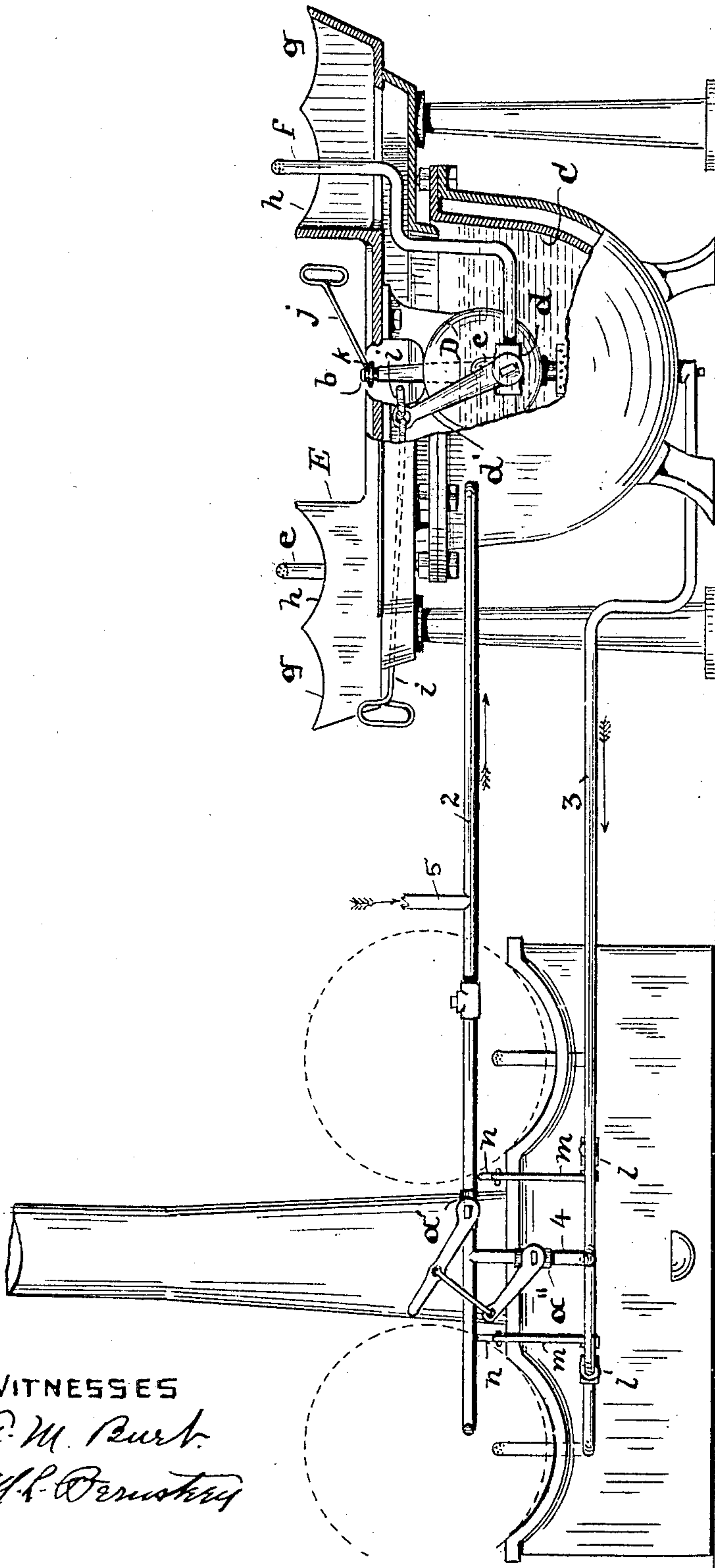
No. 871,829.

PATENTED NOV. 26, 1907.

P. SHERRER.
BARREL PITCHING EQUIPMENT.

APPLICATION FILED FEB. 28, 1905.

3 SHEETS—SHEET 2.



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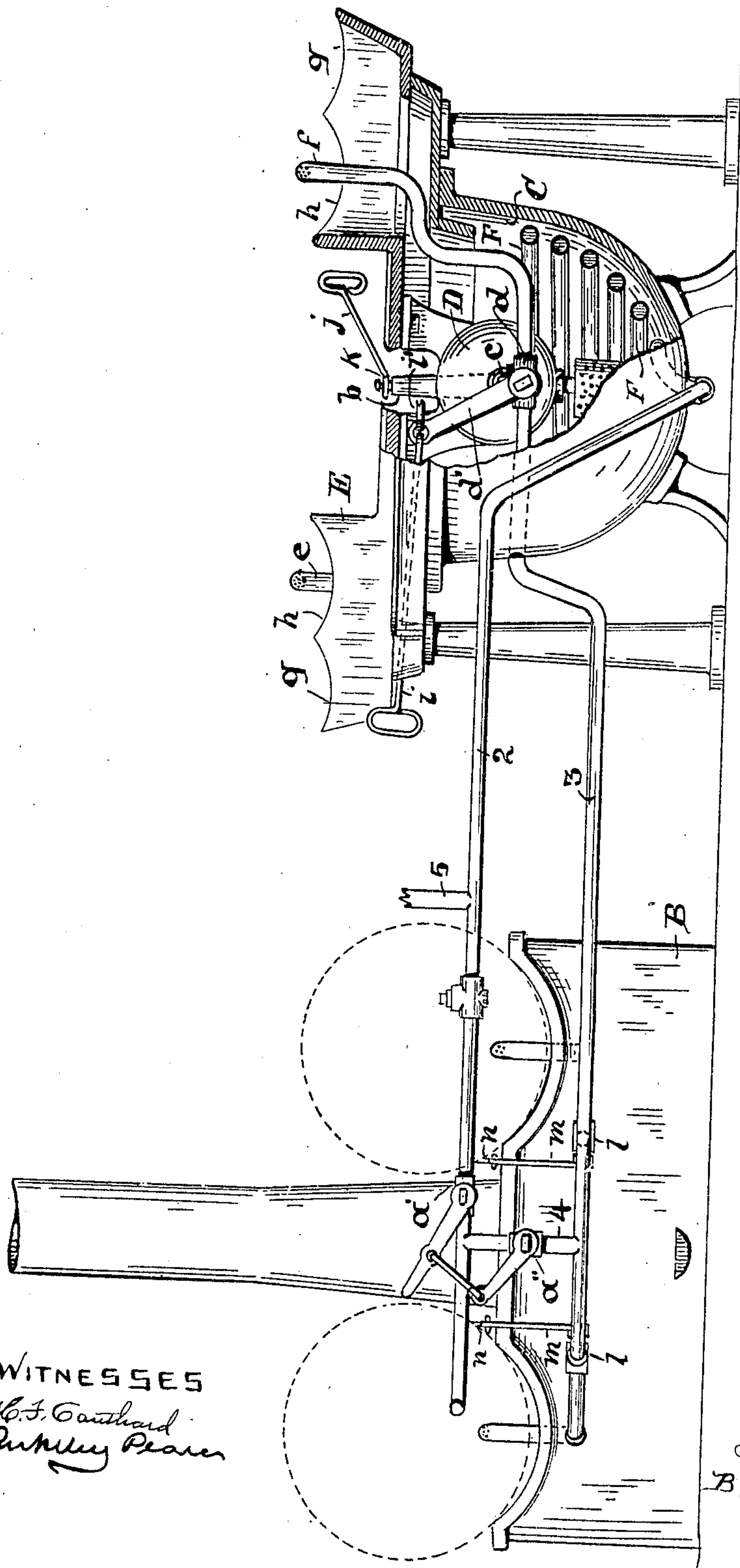
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UNITED STATES PATENT OFFICE.

PHILIP SHERRER, OF CLEVELAND, OHIO.

BARREL-PITCHING EQUIPMENT.

No. 871,829.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed February 28, 1905. Serial No. 247,820.

To all whom it may concern:

Be it known that I, PHILIP SHERRER, a citizen of the United States, and resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Barrel-Pitching Equipments, of which the following is a specification.

My invention relates to so called pitching apparatuses for barrels which are intended for carrying perishable liquids or beverages.

The object of my invention is to furnish more particularly an absolutely safe and efficient equipment for pitching and repitching of beer barrels. I attain this object in and with an equipment, comprising a combination of connected apparatuses, constructed and arranged substantially as shown in the accompanying drawings in which

Figure 1 represents a plan view of the equipment complete. Fig. 2 is an end view of same as seen from the left of Fig. 1; and Fig. 3 is a side elevational and sectional view as seen from line *x—x* of Fig. 1, and Fig. 4 is an alike illustration as Fig. 3 excepting that the pitch melting kettle is equipped with an internal heating coil in place of being jacketed or double walled.

Like letters of reference denote like parts in the drawings and specification.

Substantially the entire equipment comprises a steam super heater A, a super heated steam spray contrivance B, and a steam jacketed pitch kettle with pitching pump D, combined.

In the first named element, namely, the super heater A, steam (of ordinary pressure and temperature) in a coil is subjected to a fire, to become super heated; the fire being maintained in the lower part of the casing or member A while a pipe coil is arranged in the upper part thereof (see broken sections of said casing) through which coil the steam is conveyed to be converted into super heated condition. A system of pipes hereinafter more fully explained conveys the steam to and from said super heater.

The spraying apparatus B is provided for melting the pitch in barrels or kegs, requiring renovation or a fresh coating of pitch.

Beer barrels often require a fresh coating for obvious reasons and in order to apply such, the old, defective or objective coating must first be removed, which is readily and

best accomplished by the application of super-heated steam.

Heretofore pitching of barrels has been done over kettles or apparatuses underneath which a fire is going for the purpose of melting the pitch and for keeping the same in hot enough condition to enable coating or lining therewith the interior of beer barrels, etc.

Owing to the highly inflammable nature of pitch however, disastrous fires have often been caused if the pitch or even vapors therefrom should come in contact with the fire underneath the kettle. In view of such casualties attempts have been made to heat the pitch by steam in a jacketed kettle, the steam being conveyed to said kettle direct from the boiler plant; in such instances, however, experience has brought out the fact that steam from ordinary boiler plants is not capable of heating pitch to a degree sufficient of rendering rosin suitable for pitching. Now, then, when one method is dangerous, and the other deficient, naturally one having met such experiences will devise means which are free from objections of the kind as above mentioned. I overcome these objections in an equipment comprising the elementary members as above alluded to, namely, the super heater A, the spraying contrivance B, and the kettle C, arranged and connected to effect a conjoint operation of same, together with a preferred pitching outfit for the said kettle. Right here it may be stated, however, that the relative position of the different parts of the system may be changed to suit local conditions, in consequence whereof the pipe connections would also have a different aspect. For instance, in order to render such a plant absolutely fire proof it is desirable to place the super-heater in a room, shed or building which stands isolated from the locality wherein the spraying apparatus and kettle is located.

In the drawings, the different branches of the pipe system are designated as 1—2—3—4— etc.

Through pipe line 1 steam is conveyed from a boiler plant to the super-heater A entering at *a*, at *b* super-heated steam is leaving the coil of said heater to be conveyed through line 2 towards and into the kettle C, and from the kettle steam is conveyed to the spraying contrivance by way of pipe line 3, to be used for dissolving the pitch in barrels

which require repitching. A pipe 4 connects pipe 2 with pipe 3, so that eventually super-heated steam may be conveyed directly to the spraying contrivance without first circulating through the kettle. There being cocks a' , a'' provided to enable precise regulation, convenient operation and safety of the apparatuses so combined. As shown the levers of said cocks are link connected to enable simultaneous turning of said cocks, accidentally both cocks cannot thus remain closed, nor could both cocks be left wide open.

In the drawings a duplex pitching outfit is shown.

D denotes a pump which in suspended condition is submerged into the pitch. Upon vibrating the lever b pitch is drawn into said pump at the bottom and discharged therefrom by way of pipe c which connects with the three-way cock b , and according to how the lever d' is set pitch is expelled through nozzle e or f . The barrels are first deposited in notch g of the duplex barrel support E, thence rolled over into notch h so that the nozzle or nozzles project into the bung holes of the barrels. After a barrel at one side of the support has been charged with pitch, for a while it is allowed to remain therein, so that the surplus charge may drip therefrom back into the kettle, in the meantime a barrel at the other side is charged with pitch, thence the barrel first supplied with pitch is removed, another one deposited in place thereof and charged with pitch before the second mentioned barrel is removed and replaced by another one, and so on. A person can therefore be kept continually busy and yet each barrel after being supplied with pitch may remain a sufficient span of time upon the barrel support to afford of draining back into the kettle all of the surplus pitch which may have been pumped into a barrel. Rods i i' extend in opposite direction from lever d' to enable setting of the cock d while a person may stand at one side or the other of the kettle; owing to the repeated strokes, however, which must be imparted to lever b of the pump, it is more practical to use only one rod j and connect same with a swivel joint as at k upon lever b so that said rod may be swung to one side or the other of the kettle wherever the operator may happen to stand.

During actual operation of the plant, super-heated steam is let through pipe line 2 to the heating space of the kettle, from where it is conveyed to the spraying apparatus by way of pipe line 3 for burning out barrels which require repitching.

The cocks l l are opened and closed upon placing and removal of a barrel undergoing treatment upon the spraying contrivance, to enable this conveniently levers m m are attached to said cocks and rods n n extend to

the outer side of said contrivance of which one may be used at a time or both at the same time.

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

1. A pitching equipment for coating casks comprising the combination of a steam super-heating furnace, a spraying contrivance, a double walled pitch-melting kettle with pump combined, and a system of pipes conveying super-heated steam from said furnace to said kettle and from the kettle to said spraying contrivance as shown and for the purpose set forth.

2. In a barrel pitching equipment, the combination of an independent steam super-heating furnace, a spraying contrivance, a jacketed kettle and pump combined, a pipe leading from said furnace to said kettle, a pipe leading from the kettle to said spraying contrivance, an intermediate pipe between the two first named pipes and suitably located lever-connected valves whereby direct or indirect communication can be established between said super-heater and spraying contrivance.

3. In a pitching equipment, the combination with a pitch kettle of a duplex barrel support, and a pump having the operating lever provided with a swiveled handle, at one side of said pump, and a three way cock with lever and handles at the other side of said pump, enabling the establishment of open relation between said pump and the nozzles thereof from either side of said barrel support, substantially as shown and for the purpose set forth.

4. In a pitching equipment, the combination with the pitch kettle of a duplex barrel support, and a pump having a lever with a swiveled handle whereby said pump may be operated from either side of said kettle, in the manner and as and for the purpose set forth.

5. A pitching equipment for coating casks comprising the combination of a steam super-heating furnace, a spraying contrivance, a kettle equipped to melt pitch by steam heat, an ejector for the pitch depending into said kettle and a system of pipes conveying superheated steam from said furnace to said kettle and from the kettle to the spraying contrivance.

6. An equipment for applying and removing the pitch lining of casks comprising the combination of a steam super heater, a steam spraying contrivance, a kettle adapted to melt pitch by super-heated steam, an ejector for the pitch within said kettle, barrel supports upon said kettle and suitable conduits leading from the super heater to the kettle and from the kettle to the spraying contrivance, substantially as shown and for the purpose set forth.

7. In an equipment for pitching casks the

combination of a steam super-heater, a
kettle containing pitch and adapted to heat
pitch by super-heated steam, suitable con-
nections between said super-heater and ket-
5 tle and an apparatus being submerged in the
pitch and serviceable for injecting pitch into
casks for the purpose as set forth.

In witness whereof I have hereunto set
my hand this 21st day of Jan., 1905.

PHILIP SHERRER.

Witnesses:

BERNH. F. EIBLER,
CHAS. L. CARPENTER.