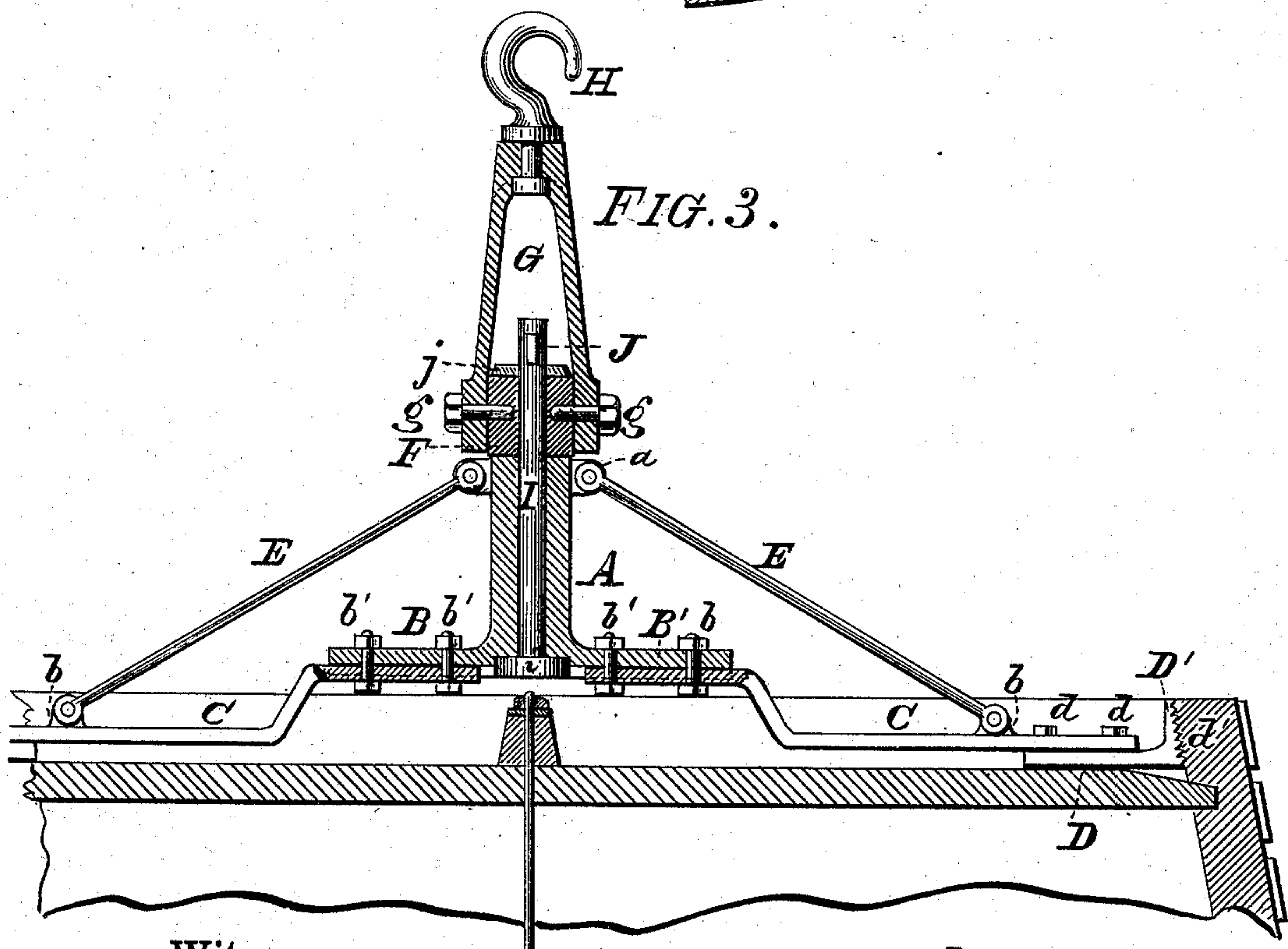
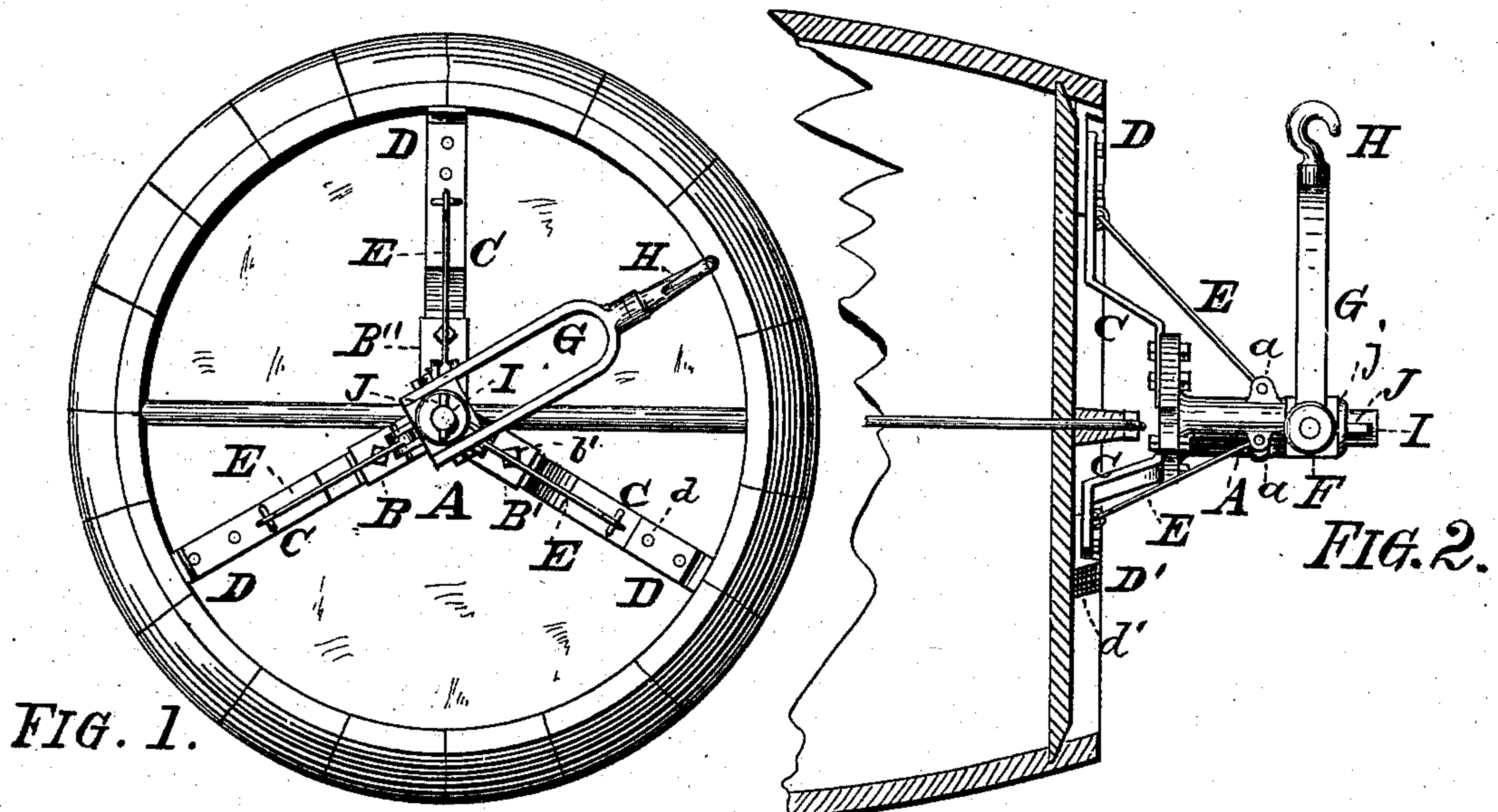


(No Model.)

F. WULLEN & C. MAYSER.
MACHINE FOR PITCHING BARRELS.

No. 270,272.

Patented Jan. 9, 1883.



Witnesses:

Al. Stark
Willie O. Stark

Inventors:

Frederick Wullen,
Charles Mayser,
by Michael J. Stark
Attorney.

UNITED STATES PATENT OFFICE.

FREDERICK WULLEN AND CHARLES MAYSER, OF BUFFALO, NEW YORK.

MACHINE FOR PITCHING BARRELS.

SPECIFICATION forming part of Letters Patent No. 270,272, dated January 9, 1883.

Application filed October 5, 1882. (No model.)

To all whom it may concern:

Be it known that we, FREDERICK WULLEN and CHARLES MAYSER, both of Buffalo, Erie county, New York, have jointly invented certain new and useful Improvements on a Machine for Pitching Barrels; and we do hereby declare that the following description of our said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has general reference to improvements on machinery for pitching barrels; and it consists essentially in a suspending device for such barrels, substantially as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings already mentioned, which serve to illustrate our said invention more fully, Figure 1 is a plan of a barrel provided with our improved suspending device. Fig. 2 is a side elevation of the same, the barrel being shown in section. Fig. 3 is a sectional elevation on an increased scale.

Like parts are designated by corresponding letters of reference in all the figures.

The object of our present invention is the production of a cheap, simple, and convenient device for suspending barrels while being pitched, especially that class of barrels used for raking, storing, and similar purposes, which said barrels are usually eight or more feet in diameter, and of proportionate lengths. To attain this end our suspending device consists of a three or more armed spider, composed essentially of a central socket, A, having a series of projecting arms, B B' B'', to which are secured curved suspending-bars C, as clearly shown in the drawings. To the forward end of the curved bars C are secured shoes D by means of screws or bolts *d*, said shoes having a serrated surface, *d'*, to enable them to take a good hold in the chimes of the barrel, and thereby to affix said spider in position.

Into the socket A is fitted a spindle or stem, I, having on one end a head or collar, *i*, and on the opposite end a sleeve, F, there being a washer, *j*, and a wedge, J, on said spindle to retain the parts in proper position. The sleeve F is preferably made angular to receive a bifurcated yoke, G, by means of screws *g*, said

yoke being provided with a swivel-hook, H, on its upper end, by means of which the entire apparatus and the barrel are suspended from any hoisting mechanism (not shown) in any suitable and convenient manner.

In order to stiffen and strengthen the spider-bars C, so as to render them capable of sustaining the weight of the barrel, we provide them with braces E, hung in eyes *a* on the socket A, and in similar eyes, *b*, on the spider arms or bars C.

In operation the barrel is supplied with the necessary quantity of hot pitch, and then suspended from any suitable hoisting apparatus in such a manner that the spindles I form trunnions and the sleeves F bearings for such barrel, there being a spider on each end of the said barrel. When thus suspended the said barrel can be readily revolved around its axis, so that the molten pitch can easily spread over the entire inner circumference of said barrel, it being thereby suitably and properly pitched. This being accomplished, one of the spider-arms is released from said hoisting device and the other elevated, thus causing the barrel to be suspended by one spider only, and rendered capable of being revolved around a vertical axis, so as to cause one of the heads to be properly pitched, after which the position of the barrel is reversed to enable the opposite head to be treated in a like manner, the revolving of the barrel being continued until the pitch has thoroughly set.

In order to adapt this device to barrels of different diameters, the shoes D are adjustably secured to the spider-arms C in a manner readily comprehended.

It is perfectly obvious that any kind of hoisting mechanism may be employed in connection with our spiders, since the operation of the entire apparatus does not depend upon some particular mechanism of that class of apparatus. We have therefore not illustrated any hoisting apparatus, so as not to confine ourselves to such apparatus.

It will be readily observed that this device may be used as a barrel-lifter, a barrel-washer, &c., without change or modification, and that it is so simple in its construction as to be capable of being readily produced by any ordinary workman.

Having thus fully described our invention,

we claim as new and desire to secure to us by Letters Patent of the United States—

1. As an improved barrel-lifter, a spider having the socket A and arms B, spider-bars 5 C, with shoes D, spindle I, with sleeve F, and a suspender; G H, substantially in the manner as and for the object specified.

2. In barrel-pitching devices, the means, substantially as described, for suspending and 10 rotating the barrel in both a horizontal and a vertical plane, such means consisting essentially in a set of clamping devices removably affixed one to each end of said barrel, said clamping devices having pivotal suspenders, 15 substantially as stated.

3. A barrel-lifter, substantially as described, adapted for engaging a barrel at the chine, said lifter being swiveled around a central spindle having a sleeve provided with a piv- 20 oted yoke, whereby said barrel may be revolved in a horizontal and in a vertical plane, substantially in the manner as and for the purpose mentioned.

4. The combination, with the socket A, having the arms B-B' B'' and the lugs *a*, of the 25 spider-rods C, provided with the lugs *b*, braces E, and the shoes D, as and for the object described.

5. The combination, with the socket A, having the arms B B' B'', of the spider-rods C, pro- 30 vided with the shoes D, spindle I, sleeve F, and yoke G, with hook H, the whole being constructed and combined for operation, substantially in the manner as and for the purpose stated.

In testimony that we claim the foregoing as 35 our invention we have hereto set our hands in presence of two subscribing witnesses.

FR. WULLEN.
CHARLES MAYSER.

Attest:

MICHAEL J. STARK,
JOHN C. DUERR.