

No. 627,272.

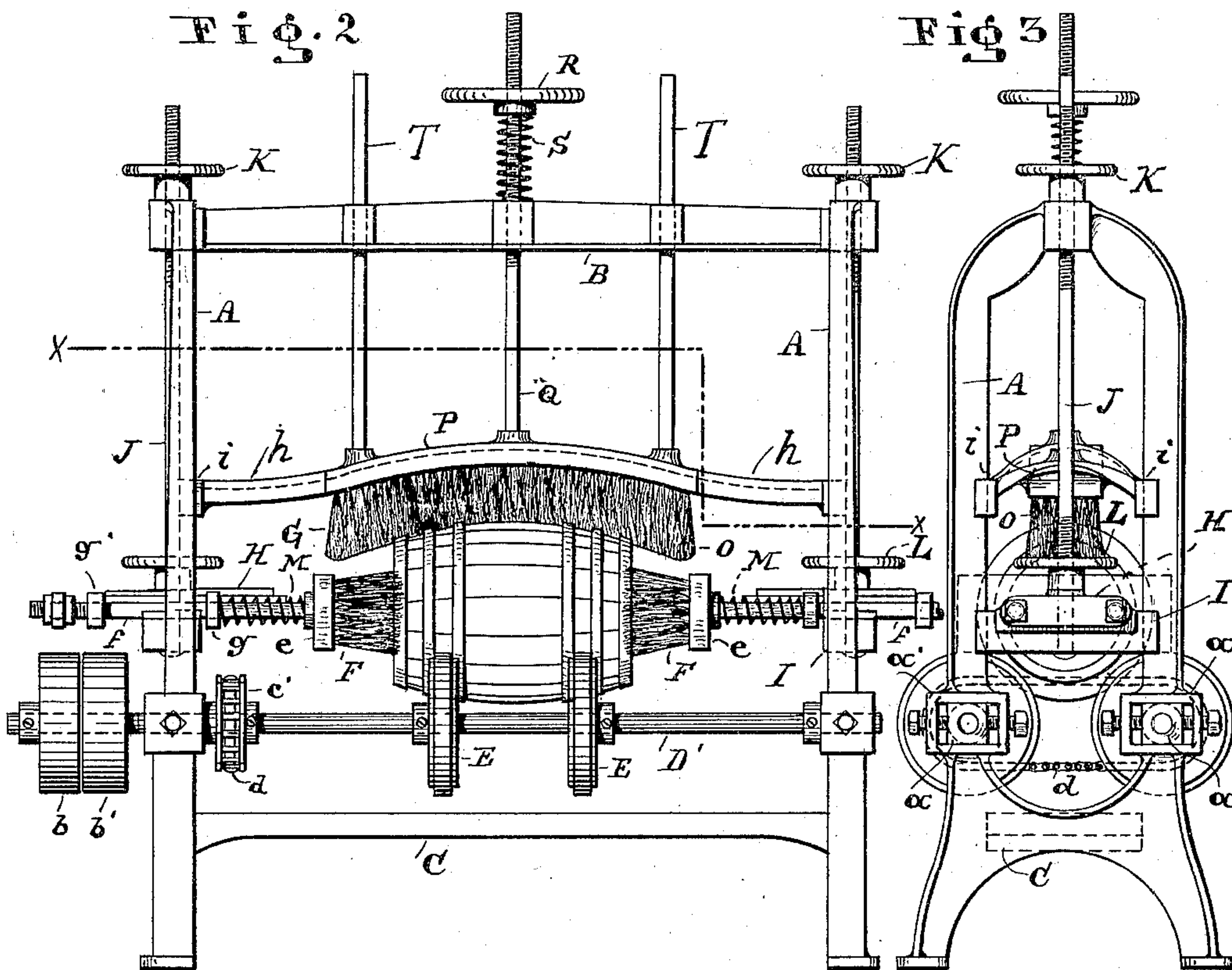
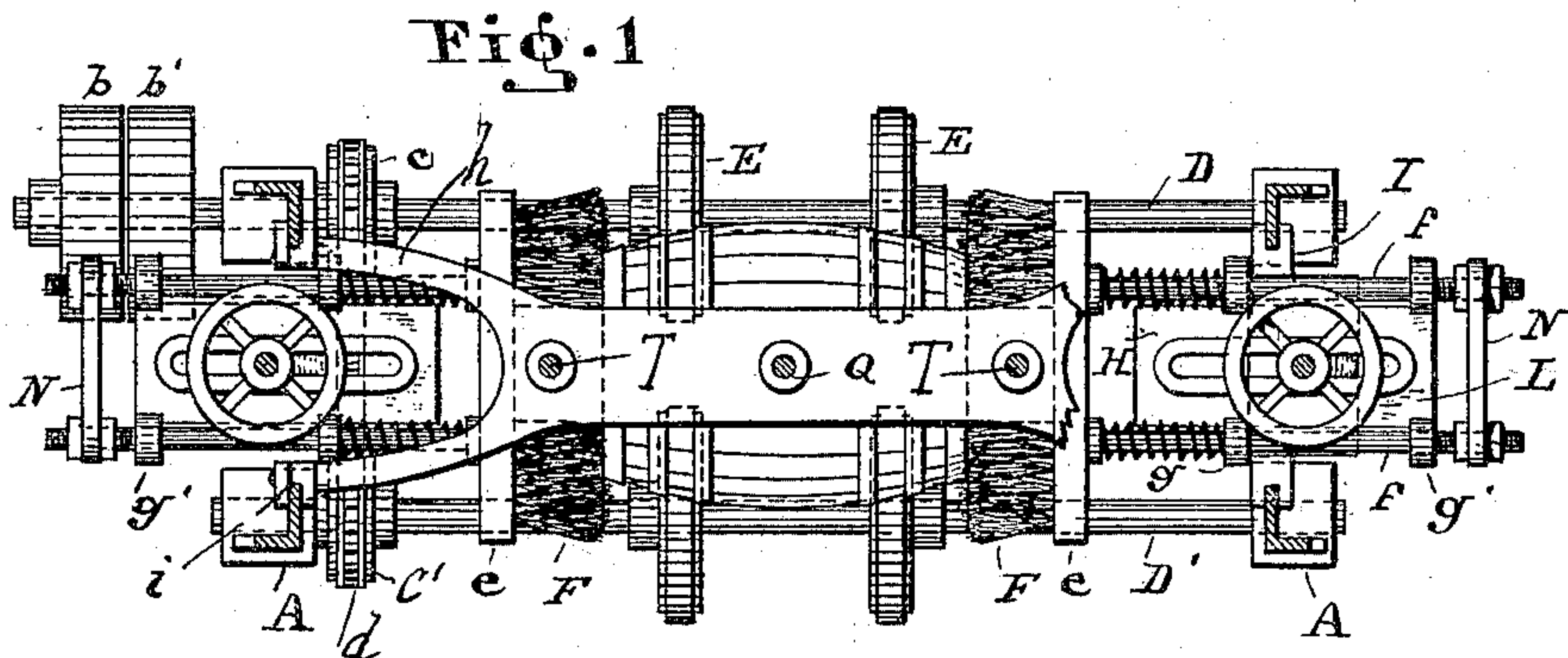
Patented June 20, 1899.

J. SCHMIDT & P. SHERRER.

BARREL WASHER.

(Application filed Oct. 28, 1896.)

(No Model.)



WITNESSES.

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UNITED STATES PATENT OFFICE.

JOSEPH SCHMIDT AND PHILIP SHERRER, OF CLEVELAND, OHIO.

BARREL-WASHER.

SPECIFICATION forming part of Letters Patent No. 627,272, dated June 20, 1899.

Application filed October 28, 1896. Serial No. 610,317. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH SCHMIDT and PHILIP SHERRER, citizens of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Barrel or Keg Scrubbing Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in barrel or keg scrubbing machines in which horizontally and vertically adjustable brushes are employed for scrubbing the surface of said barrels or kegs when and while the latter are caused to roll between and beneath said brushes upon wheels of parallelly-journaled driving-shafts; and the objects of our improvement are, first, to provide efficient means for a yielding support for said brushes; second, to afford facilities for a proper adjustment of the brushes independently of each other in respect to the surface of the barrels or kegs, and, third, to render the manipulation and operation of said machine in general extremely simple and reliable. We attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a partial plan and partial horizontal sectional view of said machine, as indicated by line *xx*. (See Fig. 2.) Fig. 2 illustrates a front elevational view, and Fig. 3 an end elevational view, of the same.

Like letters refer to like parts in the drawings and specification.

The frame of said machine comprises the standards *A A*, the top bar *B*, and the bottom plate *C*.

The driving and driven shafts *D D'* are journaled in adjustable boxes *a a*, which are located in the housings *a' a'* of the standards *A A*. (See Figs. 2 and 3.) As shown, the shaft *D* is provided with a loose and tight pulley *b b'* and a sprocket-wheel *c*. A chain *d* extends from said wheel around a similar wheel *c'* upon the shaft *D'*, and such or equivalent means may be employed to impart motion to said shafts. Furthermore, each of the shafts is provided with a pair of wheels or rolls *E*,

placed upon which are the barrels or kegs for being rotated thereby by mere frictional contact. The rolls *E E* are set apart and fastened to the shafts to suit the particular sizes of barrels.

The horizontal brushes *F F* are provided for scrubbing the heads of the barrels, while the vertically-suspended brush *G* is for scrubbing the staves or circumference thereof. Each of the brushes *F F* is mounted in a cap *e*, from which extend the rods *ff*. Said rods are guided in the lugs *g g'* of a slotted support *H*, which is adapted for adjustable connection with the cross-head *I*, the latter being guided and held suspended between the standards by means of the threaded spindle *J*, of which the nut or hand-wheel *K* is resting upon the top of the standard. The said cross-head *I* is securely connected with the lower end of said spindle, and a second screw-threaded hand-wheel *L* is provided for fastening the support *H* upon the cross-head in proper position in respect to the head of the barrel or keg.

Coiled springs *M M* are placed upon the rods *ff* between the cap and lugs *g* of the support to afford a resilient contact of the brushes upon the barrel or keg heads. A stop-bar *N* is secured to the rods outside of the lugs *g' g'* for adjustment of the springs *M M* and for limiting the lateral inward movement of the brushes to facilitate the throwing in of the barrels between the brushes. The top brush *O* is mounted in the curved cap *P*, from which arms *h h* extend, which are guided between the standards, as shown at *i i*. The said cap is yieldingly suspended by means of the threaded spindle *Q*, the hand-wheel *R*, and spring *S*. The auxiliary guide-rods *T T* in conjunction with the arms *h h* afford of a free and easy movement of the brush *O*, while horizontally the cap *P* is maintained in rigid position over the barrel, thereby relieving the spindle *Q* of undue strains and wear.

By means of the hand-wheel *R* the top brush *O* can be held suspended at suitable height, and in any position does the spring *S* serve as a cushion in the vertical movement of the brush to accommodate the placement and displacement of the barrels or kegs.

Any suitable means may be provided for supplying water for the brushes and kegs or barrels.

What we claim, and desire to secure by Letters Patent, is—

1. In a barrel or keg scrubbing machine the combination with a suitable frame and barrel rotating mechanism of the top-brush-carrying cap having a threaded spindle with
10 hand screw-wheel, side rods and arms yieldingly supported and guided by and in the top bar and standards of said frame and side-brush-carrying caps same being yieldingly connected with laterally-adjustable supports
15 upon cross-heads which are guided between said standards and secured to threaded spindles having the hand screw-wheels bearing upon the top of said standards all constructed and arranged substantially as and for the
20 purpose set forth.

2. In a keg or barrel scrubbing machine the combination with the standards of a threaded spindle held suspended from the top of each of said standards, a cross-head secured to the lower end of said spindles same
25 being guided in the standards, a slotted sup-

port adapted for adjustable connection with said cross-head, and a brush-carrying cap provided with rods, which are guided in suitable bearings or lugs upon said support and having coil-springs so interposed as to cushion
30 said brushes, all constructed and arranged substantially in the manner as and for the purpose set forth.

3. In a keg or barrel scrubbing machine
35 the combination with the standards and top bar thereof of a brush-carrying cap, the said cap being provided with a threaded spindle, side rods and arms, a hand-wheel for said spindle, a spring interposed between said
40 wheel and top bar, the rods being guided in said bar and the arms in said standards substantially as shown and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOSEPH SCHMIDT.
PHILIP SHERRER.

Witnesses:

B. F. EIBLER,
PHIL. VOELKLE.