

No. 801,795.

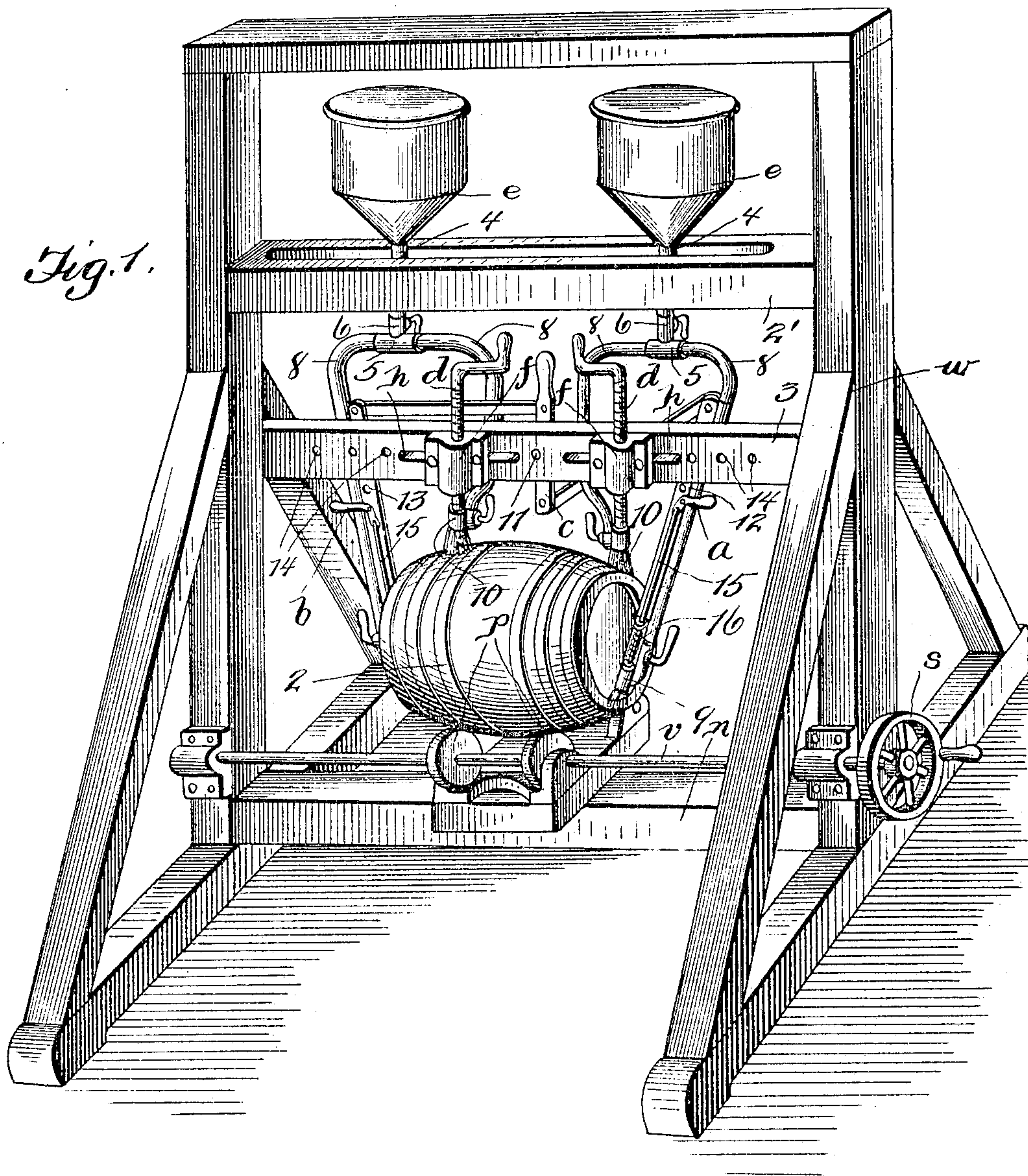
PATENTED OCT. 10, 1905.

F. KOELSCH & L. H. ZIMMER, JR.

PAINTING MACHINE.

APPLICATION FILED JUNE 8, 1905.

2 SHEETS--SHEET 1.



Witnesses

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George M. Anderson

Inventors

Frank Koelsch
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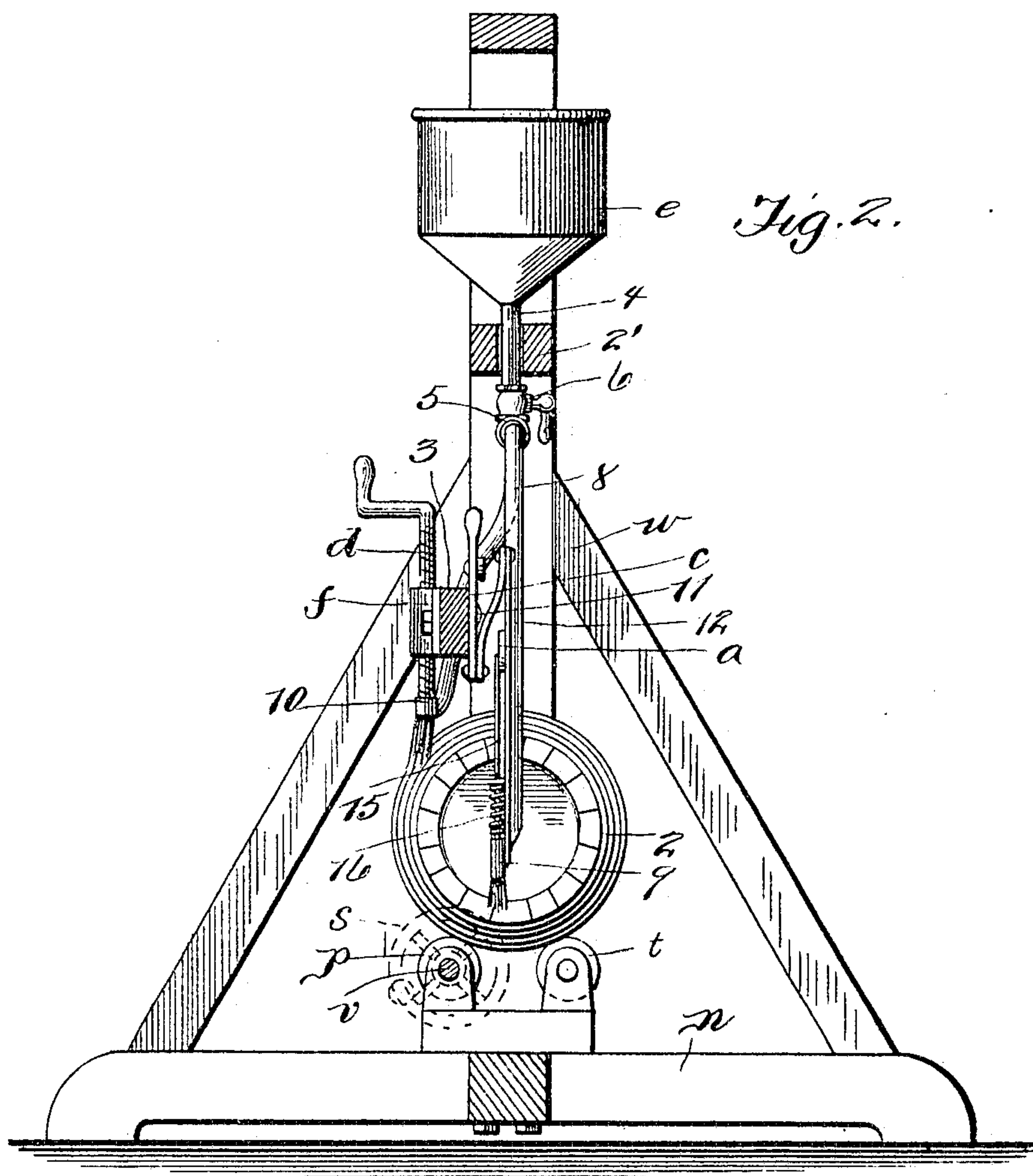
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UNITED STATES PATENT OFFICE.

FRANK KOELSCH AND LOUIS H. ZIMMER, JR., OF SCRANTON,
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PAINTING-MACHINE.

No. 801,795.

Specification of Letters Patent.

Patented Oct. 10, 1905.

Application filed June 8, 1905. Serial No. 264,230.

To all whom it may concern:

Be it known that we, FRANK KOELSCH and LOUIS H. ZIMMER, Jr., citizens of the United States, and residents of Scranton, in the county of Lackawanna and State of Pennsylvania, have made a certain new and useful invention in Painting-Machines; and we declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

The invention relates to means for painting barrels and kegs, and especially beer-kegs; and it consists in the novel construction and combination of parts as hereinafter set forth.

In the accompanying drawings, illustrating the invention, Figure 1 is a perspective view of the machine, and Fig. 2 is a vertical cross-section of the same just inside the framing.

In the drawings the letter *w* represents a frame, the base *u* of which has a pair of rollers *p* and a pair of rollers *t*, pivoted thereto and extending upward therefrom, to provide rotary bearings for a keg 2, placed thereon for painting. The pair of rollers *p* is provided with a shaft *v*, which is extended at *v* and provided with a crank wheel or pulley at *s* in order to facilitate turning this pair of rollers by hand or power. When this set of rollers is turned, the keg will rotate on the roller-bearings *p* and *t*.

The uprights of the frame support cross-bars 2' and 3 above the base and over the roller-bearings. The upper cross-bar 2' is usually slotted longitudinally and carries the paint-tanks *e*, which have spouts 4 extending downward through the slots of the bar to the union-joints 5, which are provided with stop-valves 6. To these union-joints are connected rubber tubes 8, which are provided at their lower ends with brass discharge-nozzles adapted to supply paint to the brushes of the brush-heads 9 and 10 of the painting-arms. These discharge-nozzles are also provided with stop-valves.

The lower cross-bar 3 is parallel to the cross-bar 2' and is provided with a fulcrum-pin at 11 for a lever *c*, the upper and lower arms of which are respectively connected to end levers 12 and 13 by means of connecting-rods. The

levers 12 and 13 are pivoted to the cross-bar 3 by means of pins, and a series of apertures 14 is provided in order to change the angular relation of the levers 12 and 13 in accordance with the size of the keg being painted. The levers 12 and 13 carry the lower brush-heads 9 for painting the ends of the keg. These brush-heads are movable along the arms 12 and 13 by means of short levers *a* and *b*, pivoted to said levers 12 and 13 and connected to said brush-heads by rods 15. A spring 16 on the connecting-rod holds the brush-head outward to the chime of the keg, whence it is designed to be gradually moved by the short lever *a* or *b* to the center of the end or head of the keg in order to completely paint such end or head. By means of the lever *c* both brush-heads can be applied to or removed from the heads of the keg.

The levers 12 and 13 are designed to have their pivotal points adjustable toward or from the base in order to accommodate different sizes of kegs. In painting beer-kegs radial adjustments are required, as there are two sizes of such kegs.

The cross-bar 3 is provided with longitudinal slots *h* on each side of the fulcrum 11 of the lever *c* to receive bearing pins or bolts of the adjustable slide-blocks *f*, which are provided with threaded seats for the screw-shanks *d* of the upper brush-heads 10, which are operated to paint the convex rounded side of the keg. The shanks of the brush-head 10 are threaded, and they have cranks at their upper ends whereby they are turned as the painting is carried over the keg from its ends to its middle portion or the reverse in order to accommodate the brush-heads to the variations in height of the swell of the keg side.

Both upper brush-heads 10 and lower brush-heads 9 are laterally and vertically adjustable to accommodate the work.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In a keg-painting machine, the combination with a roller-bearing base, of laterally and vertically adjustable end-painting brushes and side-painting brushes, means for supplying paint thereto, and means for turning the roller-bearings, substantially as specified.

2. In a keg-painting apparatus, the combination with roller-bearings and a shaft for op-

erating the same, of upper valved brush-
heads, their threaded shanks and valved sup-
ply-tubes, the lower brush-heads, a system of
levers for applying the same, their adjusting-
5 levers and connections, and valved supply-
tubes, and paint-supply tanks to which such
supply-tubes are connected, substantially as
specified.

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

FRANK KOELSCH.
LOUIS H. ZIMMER, JR.

Witnesses:

JOHN B. RADER,
CHARLES A. KIESEL.