

(No Model.)

R. GUNTON, Jr.  
PAINTING APPARATUS.

No. 558,805.

Patented Apr. 21, 1896.

FIG. 2.

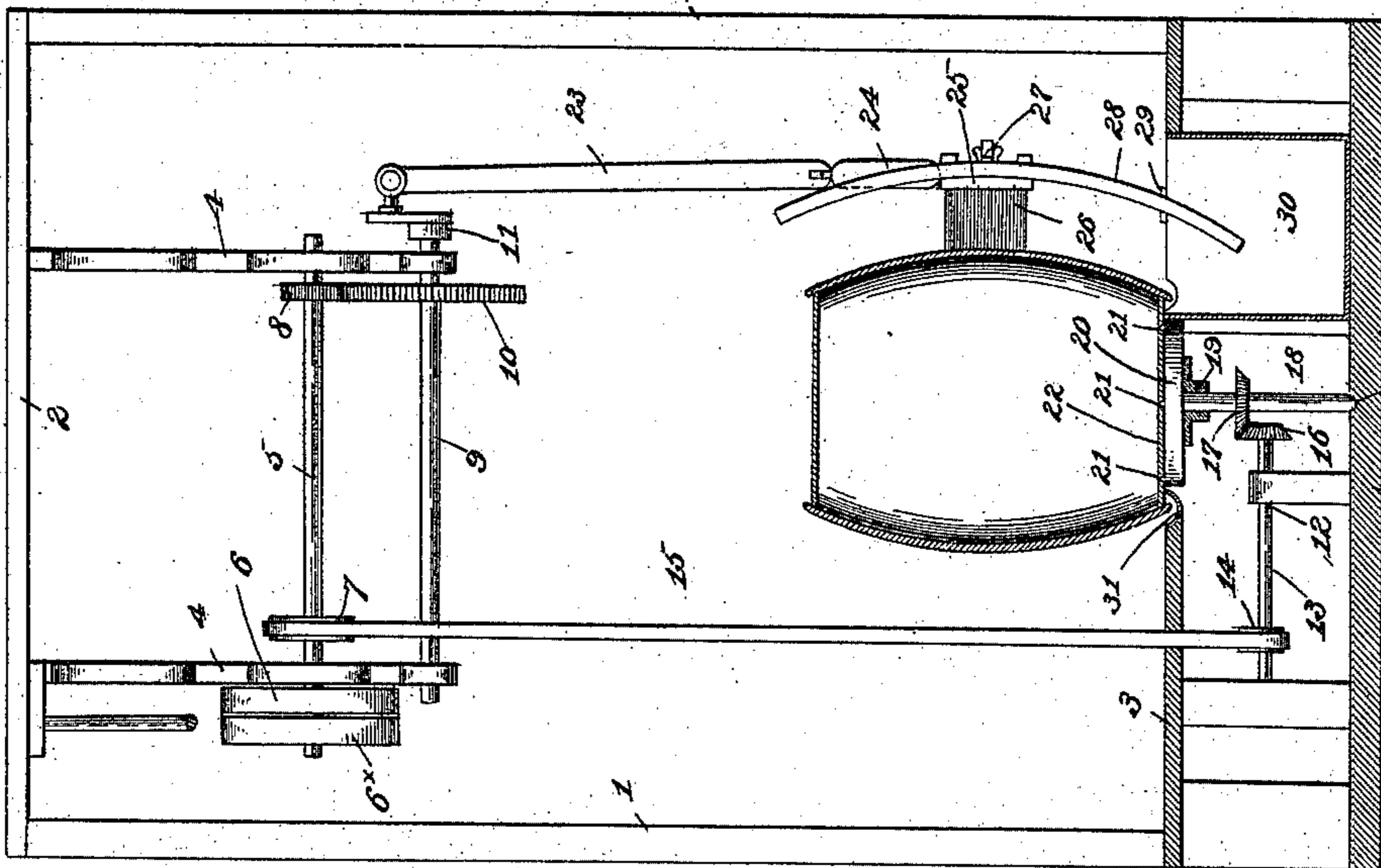


FIG. 3.

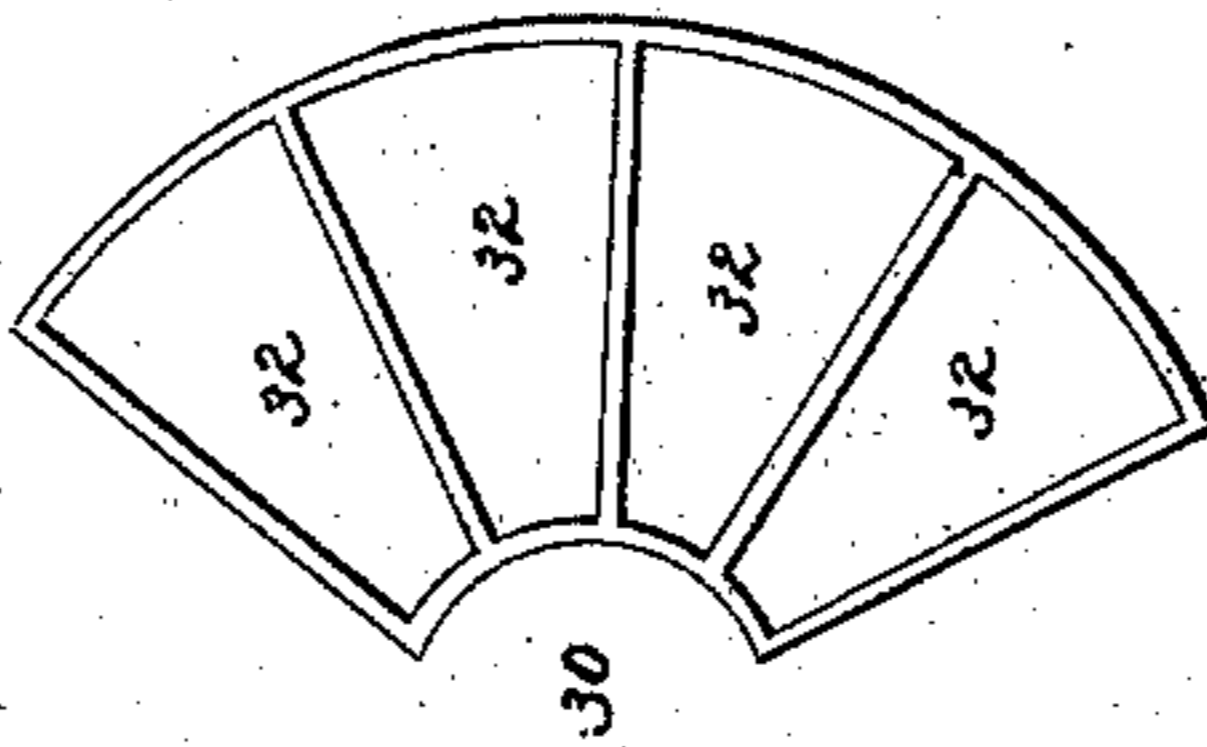
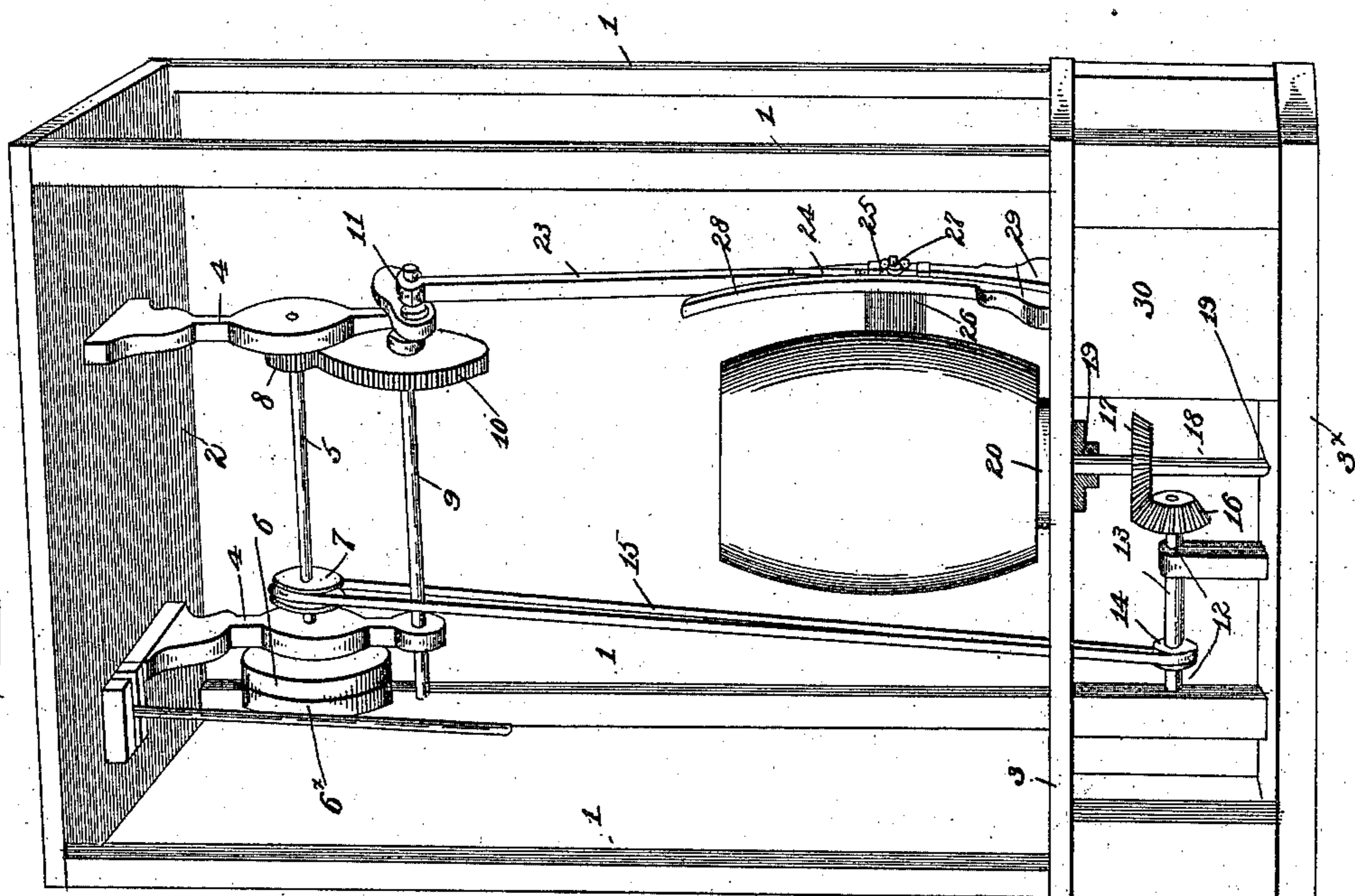


FIG. 1.



Attest.  
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Att'y.

# UNITED STATES PATENT OFFICE.

ROBERT GUNTON, JR., OF EVANSVILLE, INDIANA.

## PAINTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 558,805, dated April 21, 1896.

Application filed June 3, 1895. Serial No. 551,555. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT GUNTON, Jr., a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Painting Apparatus; and I 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.

My invention relates to improvements in painting apparatus, and has special reference to an apparatus for painting barrels or like cylindrical surfaces, although I would have it understood that it may be used for any purpose where it would operate effectively.

The main object of my invention is the provision of an apparatus of simple and inexpensive construction which will automatically apply the paint to the surface of the barrel in a smooth and even manner and with great rapidity, thus producing a result which will be thoroughly practical and useful for the intended purpose.

To attain the desired objects, the invention consists of an automatic painting apparatus embodying novel features of construction and combinations of parts, substantially as disclosed herein.

In order that the details of construction and operation of my apparatus may be readily understood and its numerous advantages be fully appreciated, I invite attention to the accompanying drawings.

Figure 1 represents a perspective view of my complete apparatus in position for use. Fig. 2 represents a front elevation with parts shown in section to fully disclose the details of construction, and Fig. 3 represents a detail view of a portion of my apparatus.

Referring by numerals to the drawings, the framework of my structure consists of the standards 1, the top portion 2, and the base or foundation 3 and 3<sup>x</sup>, which is of suitable dimensions for the desired purpose, which will be readily understood. From the top portion depend the hangers or brackets 4, in which is journaled the shaft 5, carrying the fast and loose pulleys 6 and 6<sup>x</sup>, the grooved pulley 7,

and the gear-wheel 8, and below this shaft is mounted a counter-shaft 9, carrying the large gear-wheel 10, which meshes with the small gear on the other shaft, and to the end of the latter shaft is secured the crank 11. From this construction it is evident that motion or power transmitted to the driving-pulleys transmits its movement to the shafts and revolves the grooved pulley and crank.

Mounted in bearings 12 in the foundation of the frame is the shaft 13, having near one end a pulley 14, which alines with the pulley 7, and over which pulleys passes the power-transmitting belt 15, and to the other end of said shaft 13 is secured the beveled gear-wheel 16, which meshes with a similar beveled gear-wheel 17 on a vertical stud 18, mounted in bearings 19 and carrying at its upper end the barrel-supporting platform 20, which is preferably provided with barbs or points 21, which engage the bottom of the barrel 22.

From this construction it will be seen that the power transmitted from the upper driving-shaft is communicated through the belt and pulleys to the platform upon which the barrel is supported, causing the barrel to revolve evenly with said platform.

To the crank 11 is secured the upper end of the link or pitman 23, having its lower end pivoted to the short arm 24, which in turn is pivoted to the block 25, which carries the brush 26, secured to said block by means of the screw-and-nut connection 27. This brush-carrying block or holder fits and is movable in the guide-strips 28, which are curved to conform to the peripheral shape of the barrel, and said strips are secured at 29 and depend into the paint-reservoir 30, which is secured in the base or foundation of the frame in any suitable manner, and I further provide the drip-pan 31, which is arranged under the chime of the barrel and leads to the reservoir, so that it will conduct any waste paint back to the reservoir, thus insuring cleanliness and preventing waste. In order that any color of paint may be used, as circumstances require, I provide the reservoir shown most clearly in Fig. 3, which is provided with a series of paint-containing compartments 32, which are adapted to be brought under the

brush in order that it may take the paint therefrom and convey it to the surface of the barrel.

It will be understood that the reservoir may be revolved or turned to present any one of the compartments to the brush, and the reservoir and drip-pan are secured in any suitable manner.

From the foregoing description, taken in connection with the drawings, the operation of my machine will be readily understood, and it will be noticed that simultaneously the barrel is revolved on the platform and the brush is moved vertically in contact with the barrel. Thus the entire surface of the barrel is presented to the action of the brush and a smooth and even coat of paint is placed thereon.

The advantages of my machine are numerous, and I will simply state that it is automatic and reliable in action, will rapidly and thoroughly distribute the paint to the surface of the barrel, and is simple, inexpensive, and durable in construction, thus possessing all the features of merit desired in an apparatus of this character.

I claim—

1. In an automatic painting apparatus, the combination with mechanism for revolving the barrel, of a vertically-movable paint-brush for painting the outer surface of the barrel, a guide for the brush arranged substantially parallel to the surface of the barrel, whereby said brush conforms to the surface of the barrel as the brush moves vertically, and means for vertically moving said brush operated by the barrel-revolving mechanism.

2. In an automatic painting apparatus, the combination of a revolving barrel-supporting platform, a paint-reservoir, a vertically-movable brush for taking the paint from the reservoir and applying it to the barrel, a guide for the brush, a flexible connection to allow

the brush to assume the proper positions, and mechanism for operating the platform and brush.

3. In an automatic painting apparatus, the combination of a revolving barrel-support, a paint reservoir or supply at one side of said support, a movable brush for taking the paint from the reservoir and applying it to the surface of the barrel, a flexible connection for the brush to allow it to assume the proper positions, guides for said brush, and mechanism for operating the brush and support.

4. In an automatic painting apparatus, the combination of a barrel-support, a sectional paint-reservoir, a drip-pan communicating therewith, a movable brush for taking the paint from the sectional reservoir and supplying the paint to the surface of the barrel, and mechanism for operating the brush and support.

5. In a painting apparatus, the combination of a frame, a platform mounted in said frame and having a channel or gutter, a paint-reservoir communicating with said gutter, a circular barrel-support arranged in the platform, mechanism for revolving the support and barrel, a vertically-moving brush-carrier having a yielding or hinged brush connection and mechanism for moving the brush to apply the paint from the reservoir to the barrel as it revolves.

6. The combination of the paint-reservoir, the circular gutter or conductor leading to the reservoir, the vertically-moving brush for taking the paint from the reservoir, the barrel platform or support and mechanism for revolving the platform and moving the brush.

In testimony whereof I affix my signature in presence of two witnesses.

ROBT. GUNTON, JR.

Witnesses:

JAMES T. WALKER,  
N. McCUTCHEON.