E. J. STURM AND M. SURNSON.

MOVABLE PAINTER'S PLATFORM.

APPLICATION FILED JAN. 20, 1920.

1,421,609. Patented July 4, 1922.

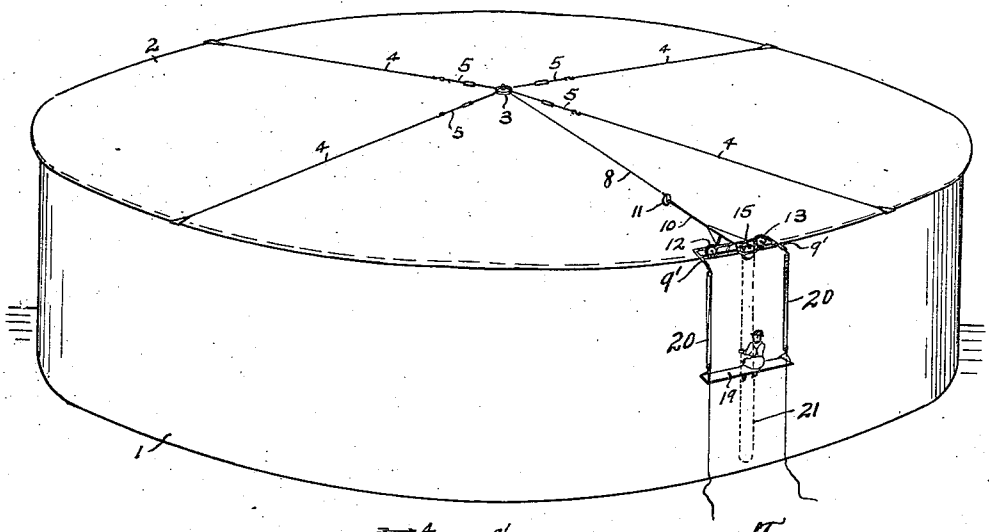


Fig. 1.

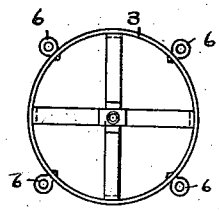


Fig. 5

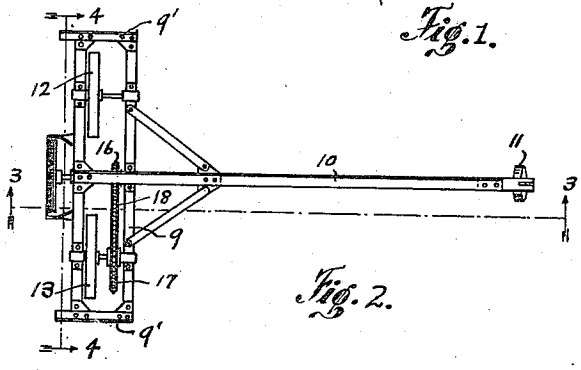


Fig. 2.

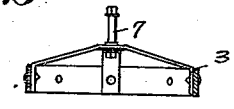


Fig. 6.

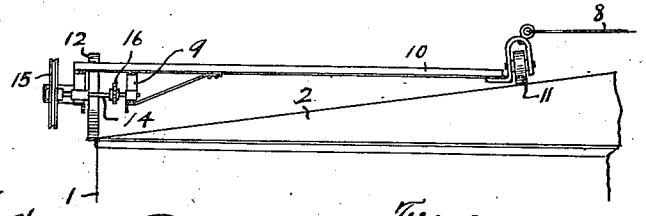


Fig. 3.

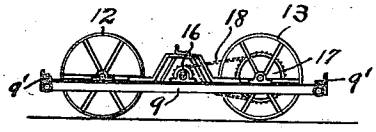


Fig. 4.

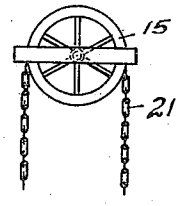


Fig. 7.

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UNITED STATES PATENT OFFICE.

EARL J. STURM AND MORRIS SURNSON, OF HOUSTON, TEXAS, ASSIGNORS OF ONE-THIRD TO A. M. BOWMAN, OF HOUSTON, TEXAS.

MOVABLE PAINTER'S PLATFORM.

1,421,609. Specification of Letters Patent. Patented July 4, 1922.

Application filed January 20, 1920. Serial No. 352,670.

To all whom it may concern:

Be it known that we, EARL J. STURM and MORRIS SURNSON, citizens of the United States, residing at Houston, in the county of Harris and State of Texas, have invented certain new and useful Improvements in a Movable Painter's Platform, of which the following is a specification.

This invention relates to new and useful improvements in a movable painter's platform and has particular relation to a platform specially designed for use in painting the walls of oil tanks and other similar circular structures.

One object of the invention is to provide a movable platform which serves as a mount for a painter while painting the outer surface of a circular wall, such as the wall of an oil tank or similar structure.

Another object of the invention is to provide a suspended platform in combination with a mechanism whereby said platform may be elevated and lowered and moved around the structure, so that all parts of the wall may be reached and painted by the painter, without demounting from said platform.

With the above and other objects in view, the invention has particular relation to certain novel features of construction, operation and use, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1, shows a perspective view of an oil tank, showing the device applied thereto.

Figure 2, shows a plan view of the framework and operative mechanism of the device.

Figure 3, shows a sectional view taken on the line, 3, 3 of Figure 2.

Figure 4, shows a sectional view taken on the line 4—4 of Figure 2.

Figure 5, shows a plan view of the crown cap.

Figure 6 shows a transverse sectional view thereof and

Figure 7, shows a side view of the chain wheel employed.

Referring now more particularly to the drawings wherein like numerals of reference designate similar parts in each of the figures, the numeral 1 refers to the circular wall of the structure, which has the circular roof 2. Located at the center of said roof there is the crown cap 3, which is held in position on the roof by means of the radially extending cables 4, whose outer ends are secured to the margin of the roof and whose inner ends are attached to the outer ends of the lightning rods 5. These rods have the usual turn buckles and their inner ends are secured to the eyes 6, which are carried by the crown cap 3.

Upstanding from the crown cap there is a spindle 7, to which the upper end of the radial stay rod 8 is attached.

The numeral 9 refers to a framework which is composed of suitable side members spaced apart and which are secured in fixed relation by means of the end members 9′, 9′. Secured to this frame there is a radially extending arm 10, to the free end of which the lower end of the radial stay rod 8 is attached and said free end has a rotatable bearing wheel 11 which travels around on the roof 2.

The frame 9 is supported on the margin of the roof by means of the carrier wheels 12 and 13, which are fixed upon suitable axles rotatably mounted in bearings carried by said frame.

Rotatably mounted in suitable bearings carried by the frame 9, there is a transverse counter shaft 14, fixed to the outer end of which there is a chain pulley 15 and there is also fixed upon said shaft a small sprocket wheel 16, which is in alignment with a larger sprocket wheel 17, which is fixed on the axle of the carrier wheel 13 and operating over said sprocket wheels and transmitting rotation from the former to the latter there is a sprocket chain 18.

The end members 9′ project out beyond the roof and there is suspended from said projecting ends a platform 19 provided to sustain the painter and his appliances. This platform is suspended by means of the usual block-and-tackle arrangements 20, 20 through which the platform may be easily elevated and lowered in the usual way.

Operating over the chain pulley 15, there is a chain 21 within reach of the painter and by a suitable manipulation of said chain, the pulley 15 may be turned, thereby transmitting rotation to its shaft 14 and operating through the mechanism described to

rotate the carrier wheel 13 thereby moving the entire mechanism around the wall of the tank.

What we claim is:

1. A device of the character described including a framework, composed of side members, carrier wheels upon which the framework is mounted, a laterally extending arm carried by the framework, an anti-friction roller carried by the free end of said arm, a stay rod, one end of which is attached to the free end of said arm, a spindle, cables for securing said spindle at the center of a circular roof, the other end of said rod being attached to said spindle said stay rod being adapted to retain said device in position to be supported by said carrier wheels engaging the margin of said roof, a platform, means suspending said platform from said framework through which the platform may be elevated and lowered and a mechanism through which one of said carrier wheels may be rotated to move said device around said margin.

2. A device of the character described consisting of a crown cap, adapted to be positioned at the center of a circular roof, radially extending cables whose outer ends are adapted to be secured to the margin of the roof, tightening rods attached at one end to the crown cap and whose other ends are attached to the respective cables, means for adjusting said rods, a spindle carried by said crown cap, a framework composed of suitable side members and end members the latter of which project out beyond the roof, a radially extending arm carried by said framework, a radial stay rod one end of which is attached to said spindle and the other end of which is attached to said arm, a rotatable bearing wheel carried by said arm, carrier wheels adapted to support said framework on the margin of the roof, a transverse shaft rotatably mounted in said framework, a chain pulley and small sprocket wheel fixed to the said shaft, a larger sprocket wheel fixed to one of said carrier wheel axles and in alignment with said first mentioned sprocket wheel, a sprocket chain operating over said sprocket wheels, a platform suspended from the projecting ends of said end members, means for elevating and lowering said platform, a chain operating over said chain pulley through which said pulley and the shaft to which it is fixed may be rotated, and rotation thereby transmitted to the carrier wheel.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

EARL J. STURM.
MORRIS SURNSON.

Witnesses:
W. A. CATHEY,
ALBERTA ALLEN.