Sept. 13, 1927. 1,641,985

H. A. NICHOLS

OIL DRUM HOIST AND TILTING FRAME

Filed Feb. 5, 1926

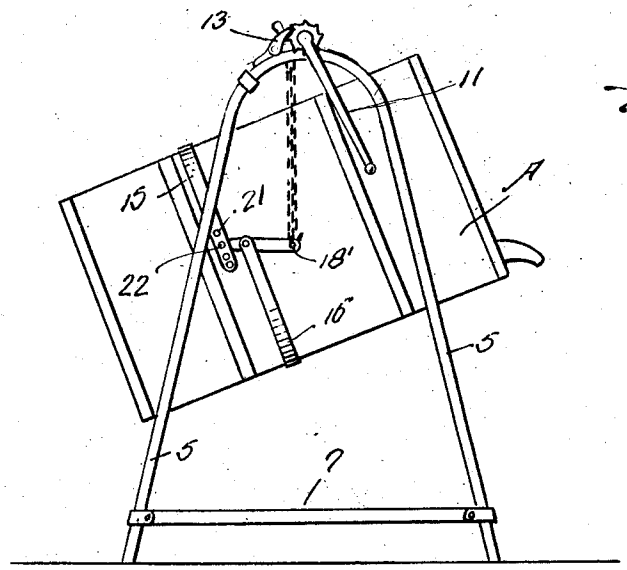


Fig. 1.

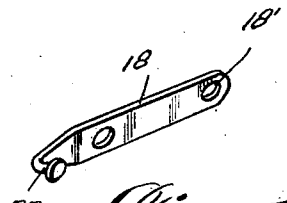


Fig. 4.

Fig. 2.

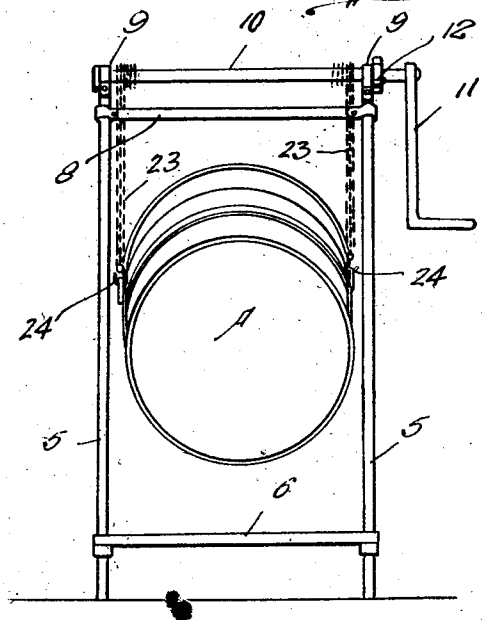
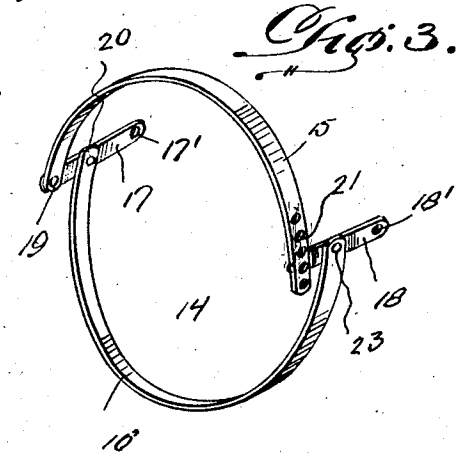


Fig. 3.



Inventor
H. A. Nichols,

By Clarence O'Brien

Attorney

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UNITED STATES PATENT OFFICE.

HERBERT A. NICHOLS, OF ROBSTOWN, TEXAS.

OIL-DRUM HOIST AND TILTING FRAME.

Application filed February 5, 1926. Serial No. 86,227.

This invention relates to a means whereby an oil drum may be hoisted above the floor level and properly tilted in order that the oil may be drained therefrom, it being the main object of the invention to provide simple, efficient, and comparatively inexpensive means for carrying out such operation.

In the attainment of this end, the invention consists of a relatively portable frame for disposition over the drum together with means for attachment to the drum, that is carried by chains or cables wound upon a shaft for effectively hoisting the drum and permitting the same to be properly tilted when in hoisted position.

In the drawing, wherein like reference characters indicate corresponding parts throughout the several views:—

Figure 1 is a side elevation of my improved device, the same being shown as actually supporting an oil drum in hoisted position.

Fig. 2 is a rear side elevation thereof.

Fig. 3 is a perspective of the oil drum clamping means, per se, and

Fig. 4 is a perspective of one of the members comprising an element thereof.

Now having particular reference to the drawing, my novel device constitutes the provision of a pair of transversely spaced parallel frame members 5—5 of inverted U-formation, that are preferably constructed from piping or solid bar iron, said frame members being interconnected at their lower ends by cross bars 6 extending between the legs of the frame members while the legs of each frame member are interconnected through the medium of bars 7. Furthermore the said frame members are interconnected at one side of their bight portions through reason of a cross bar 8.

Suitably journaled within bearings 9—9 upon the bight portions of each frame member is a cross shaft 10, one end of which is provided with a turning handle 11. Between said handle and the adjacent bearing 9 of the shaft 11 is a ratchet wheel 12 with which cooperates a pivoted dog 13 upon the bight portion of the adjacent frame member for preventing rotation of the shaft in one direction unless the dog has been swung to ratchet disengaging position.

The oil drum is designated A and adapted to be positioned around the same at a point beneath its center is a clamp designated generally at 14. Said clamp constitutes the provision of a pair of semi-circular spring metal bands 15 and 16, the tendency of the same being normally to spring outwardly at their opposite ends, which opposite ends are adapted to be interconnected in edge to edge overlapping relation through reason of connecting links 17 and 18. The connecting link 17 is adapted to have pivotal connection as at 19 at one of its ends to the adjacent end of the band 15, and to the adjacent end of the other band 16, by a pivotal connection 20 inwardly of the pivotal connection 19.

The opposite end of the band 15 is provided with a plurality of spaced openings 21 within either one of which is adapted to be positioned an angularly disposed finger 22 formed upon the inner end of the connecting link 18 between the adjacent ends of the bands 15 and 16 for accommodating the clamp to drums of varying capacity. Said link 18 has pivotal connection as at 23 with the adjacent end of the band 16, both links 17 and 18 being provided with openings 17′ and 18′ at their outer ends.

Adapted for detachable engagement within the openings 17′ and 18′ of said links, are hooks 24—24, upon the lower ends of chain sections 23—23 that extend upwardly, and are in turn secured to the cross shaft 10 in order that when the same is rotated, the chains will be either wound or unwound upon or from said shaft depending upon the direction of turn of said shaft.

It will be apparent that after the stand has been disposed over the drum A, which is normally arranged in upright position upon the floor, the clamp 14 is adapted to be associated therewith, after which the hooks of the chain sections are to be engaged within the openings of the links 17 and 18 of said clamp. A turning of the shaft 10 in one direction, will cause the chains to wind thereon, which at the outset will cause the swinging of the links 17 and 18, thus binding the band sections 15 and 16 upon the drum and subsequently raising the drum to the position shown in Fig. 1, in which position the drum may be readily tilted for emptying the same of its contents.

It will thus be seen that I have provided a highly novel, simple, and efficient form of oil drum hoist and supporting stand, that is well adapted for all of the purposes heretofore designated. Even though I have herein shown and described a practical embodiment of the present invention, it is neverthe-

less to be understood that minor changes may be made therein without departing from the spirit and scope of the appended claim.

Having thus described my invention, what I claim as new and desire to secure by Letters-Patent is:

In an oil drum support and hoisting device, a supporting stand including a pair of spaced upright frame members between which the drum is adapted to be arranged, a shaft extending across the upper ends of said frame members and journaled for rotation in bearings on said members, an oil drum clamp made up of a pair of complemental semicircular bands, links adjustably and pivotally connected with the adjacent ends of said bands, operating means for the shaft, and suspension elements wound upon the shaft and connected with said links.

In testimony whereof I affix my signature.

HERBERT A. NICHOLS.