April 26, 1932. S. C. JENSEN 1,855,678

BARREL CARRYING DEVICE

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Fig.1.

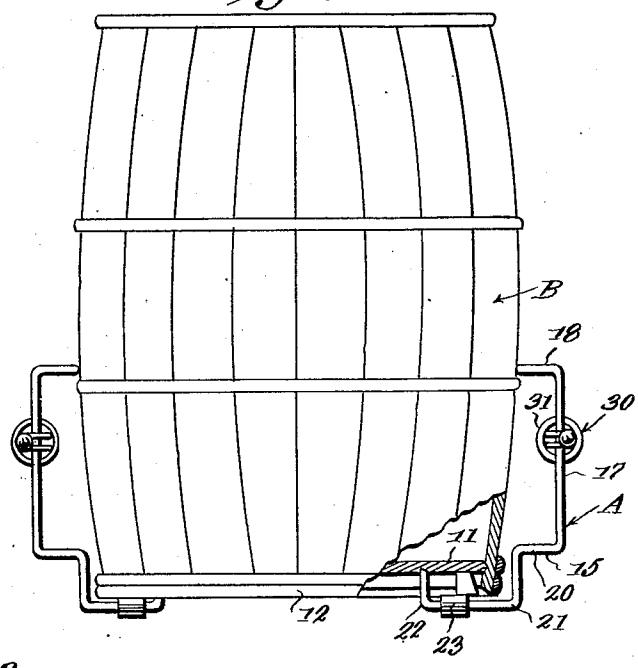


Fig.2.

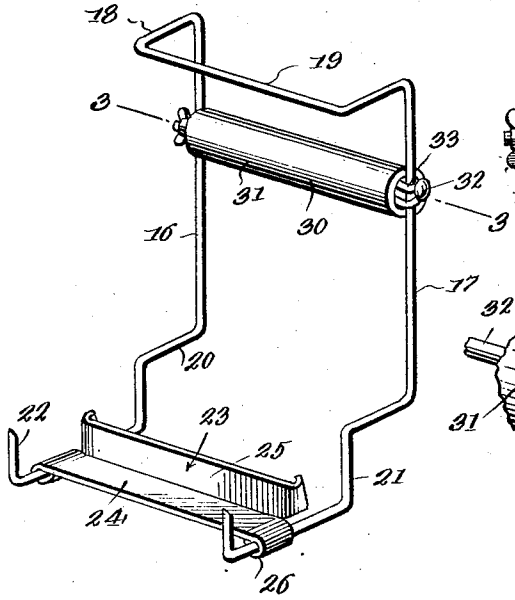


Fig.3.

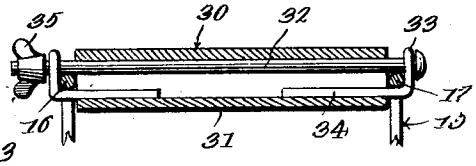
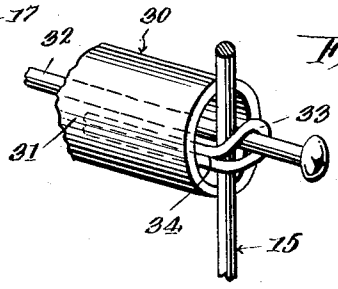


Fig.4.



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Fig. 5.

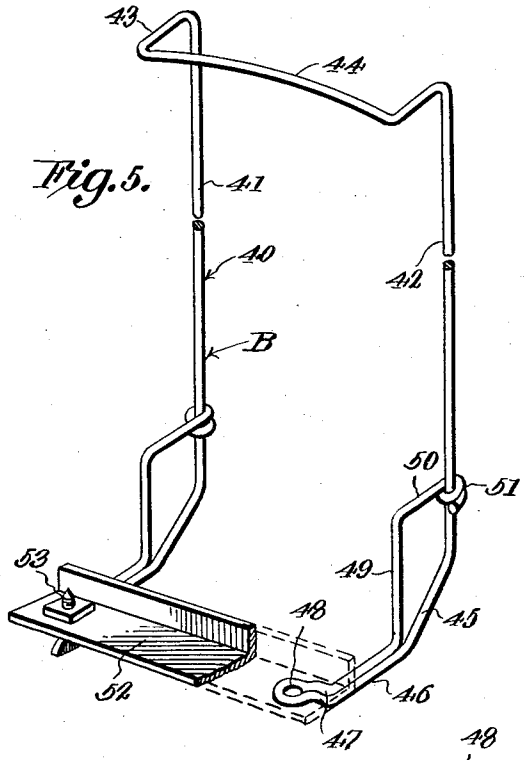


Fig. 8.

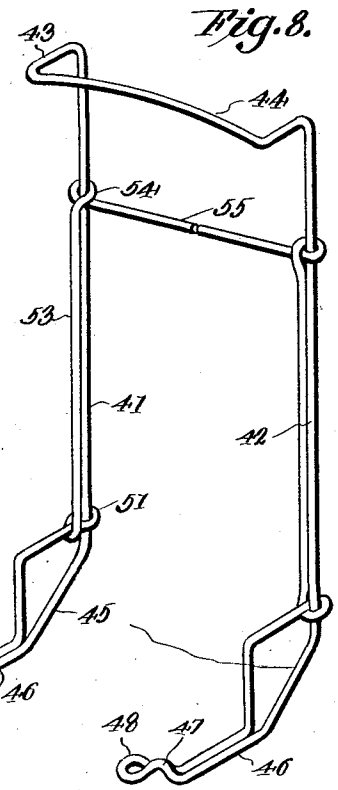


Fig. 6.

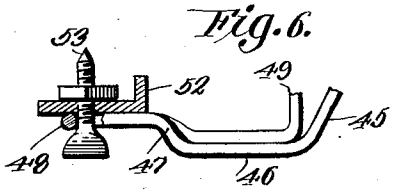
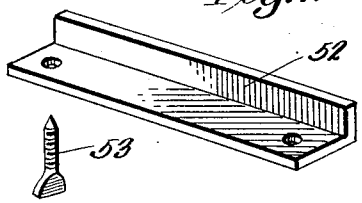


Fig. 7.



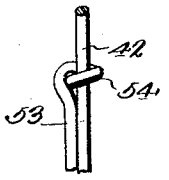
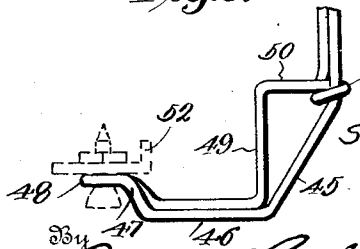


Fig. 9.



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BARREL CARRYING DEVICE

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Fig. 10.

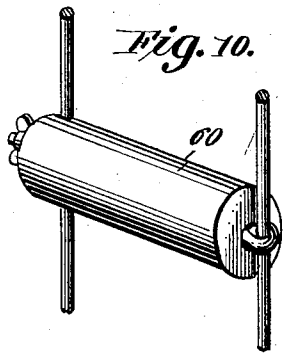


Fig. 11.

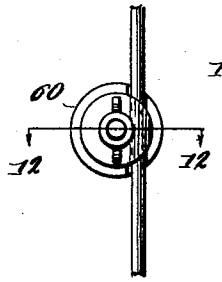


Fig. 12.

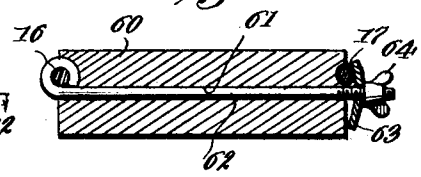


Fig. 13.

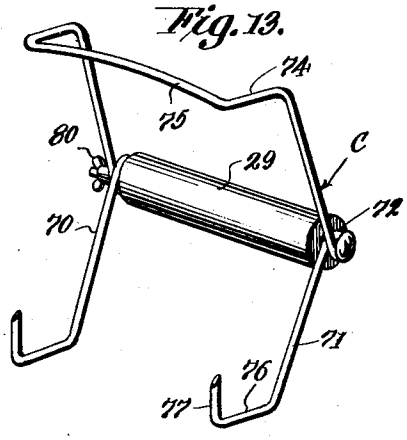
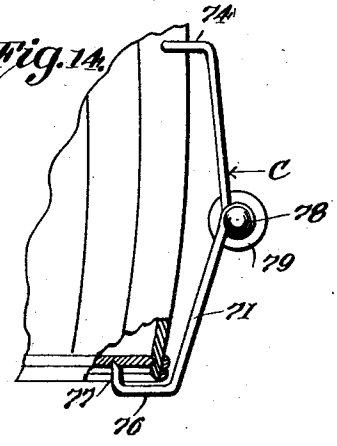


Fig. 14.



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Patented Apr. 26, 1932 1,855,678

UNITED STATES PATENT OFFICE

SOREN C. JENSEN, OF PRESQUE ISLE, MAINE

BARREL CARRYING DEVICE

Application filed October 27, 1930. Serial No. 491,629.

This invention appertains to novel means for facilitating the carrying and handling of barrels.

One of the primary objects of my invention is the provision of novel detachable handles for engagement with the opposite sides of the barrel, whereby the barrel can be readily raised and carried by persons without danger of injury to the persons or damage to the barrel.

Another salient object of my invention is the provision of novel handles for carrying a barrel embodying a wire or bent rod frame having means for engaging under the rim of the barrel at one end and a jaw for engaging the barrel at a point above the rim and for spacing the main portion of the frame from the barrel, said portion of the frame carrying adjustable handles which are adapted to be gripped by the persons transporting the barrel.

Another prime object of my invention is the provision of means associated with the frame for coaction with the device carried by the frame for engaging the rim of the barrel, whereby displacement of said means will be prevented.

A further object of my invention is the provision of novel means for forming a frame out of wire or bent rod whereby a strong and durable structure will be had at a small cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawings, in which drawings:—

Figure 1 is a side elevation of a barrel showing my improved handling device connected therewith, parts of the barrel being shown broken away and in section.

Figure 2 is a perspective view of one of my barrel handling devices.

Figure 3 is a horizontal section taken on the line 3—3 of Figure 2 illustrating the construction of the handle of one of the carrying or handling devices and the means for adjustably holding the handle thereon.

Figure 4 is an enlarged fragmentary detail perspective view illustrating the means for mounting the handle at one end of the frame.

Figure 5 is a detail perspective view of a slightly modified form of barrel handling device.

Figure 6 is an enlarged detail vertical sectional view through the same.

Figure 7 is a detail perspective view of the barrel rim engaging member of the modified form of my device.

Figure 8 is a detail perspective view of the frame of a still further modified form of my device.

Figure 9 is a fragmentary side elevation of the form of my invention shown in Figure 8.

Figure 10 is a fragmentary detail perspective view illustrating a modified form of handle.

Figure 11 is a fragmentary side elevation further illustrating the form of handle shown in Figure 10.

Figure 12 is a detail sectional view through the modified form of handle taken on the line 12—12 of Figure 11 looking in the direction of the arrows.

Figure 13 is a detail perspective view of another form of my improved barrel lifting and carrying device.

Figure 14 is a side elevation of the same showing the lifter in use.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A generally indicates my improved device for facilitating the handling of a barrel B. The barrel B can be of any preferred character and as shown is provided with a head 11 and a rim 12 surrounding the head.

My improved barrel handling device A comprises a pair of like companion devices which are adapted to be arranged at the opposite sides of the barrel and as these devices are of substantially the same construction only one will be described in detail.

Each one of the devices comprises a frame 15 formed of wire of the desired gage, or iron or steel rod bent into the desired shape. This frame 15 includes parallel side bars 16 and 17 having their upper ends provided with outwardly extending arms 18, which are connected together by a transversely extending front bar 19, which serves to space the side bars 16 and 17 from the barrel as will be later described. The lower ends of the side bars 16 and 17 are provided with forwardly projecting legs 20 which extend in the same direction as the arms 18. These legs 20 are offset intermediate their ends as at 21, and the extreme forward ends of the legs are provided with upwardly extending vertical prongs 22 for engaging under the rim 12 of the barrel B. The legs 20 forwardly of the offset portion 21 carries a gripping jaw 23 which can be made of sheet metal, if so desired.

The sliding jaw 23 comprises the horizontally disposed base plate 24 and upstanding wall portion 25. The terminals of the base plate portion 24 are rolled to provide guides 26 which are slidable on the legs 20 in advance of the offset 21 as heretofore mentioned.

The vertical bars 16 and 17 adjustably support the carrying handle 30, which may comprise a section of tubular pipe 31 of a sufficient length to extend between the bars 16 and 17. An elongated headed bolt 22 is extended through the tubular hand grip or pipe 31, and this bolt carries bent wire gripping members 33, which are looped about the bolt and provided with inwardly directed parallel leg portions 34 which extend into the tubular hand grip. One end of the bolt is threaded and provided with a wing nut 35 and the portions of the gripping members 33 which are looped about the bolt are adapted to bear against the spaced vertical bars 16 and 17. Thus by tightening the wing nut 35 these gripping members can be brought into gripping contact with the vertical bars 16 and 17 to hold the tubular hand grip in the desired adjusted position.

In use of my improved barrel handling device the members are placed on opposite sides of the barrel as shown in Figure 1 of the drawings and the prongs 22 are placed underneath the rim 12 as shown, after which the jaw 23 is slipped forwardly on the legs 20 into contact with the barrel. The jaw 19 will engage the barrel above the rim and will act as means for gripping the barrel and for also spacing the tubular hand grip 31 therefrom. It is thus obvious that persons on opposite sides of the barrel can readily grasp the hand grip 31 and carry the barrel without undue difficulty.

In Figures 5 to 7 inclusive I have shown another form of my device which is generally indicated by the reference character B. In this form of my invention I provide a frame 40 which is likewise constructed from wire of the desired gage or a rod pressed into the desired shape. As shown, this frame 40 includes the straight vertical bars 41 and 42, the upper ends of which are provided with forwardly extending right angularly disposed arms 43, the arms being connected together by an integral bight portion or horizontally disposed barrel engaging jaw 44. The lower ends of the bars 41 and 42 are bent downwardly and forwardly as at 45 and then forwardly in a horizontal plane as at 46. The bars are then further bent to provide offset supporting feet 47 and eyes 48, after which the rods are bent back upon themselves into engagement with the horizontal portion 46. The rods are then further bent to provide upright vertical rests 49 and are finally bent rearwardly as at 50 and coiled about the parallel bars 41 and 42 as at 51.

The feet 47 are adapted to receive an angle bar 52 which engages under the rim of the barrel and the eyes 48 can receive suitable bolts 53 which extend through the angle bar 52. The vertical flange of the angle bar is in spaced parallel relation to the vertical portion 49 of the crane and the vertical portion can engage the barrel on the outside of the rim.

The device is used in the same manner as the device in the preferred form and the horizontal portions 50 can be used as handles if desired.

In Figures 8 and 9 I have shown a further modified form in which a handle is provided for the type of frame illustrated in Figures 5, 6, and 7. In this form, in order to provide handles the coiled portion of the wire or rod 51 is continued upwardly in spaced parallel relation to the rods 41 and 42, as at 53, and then again coiled about the rods 41 and 42, as at 54, and brought inwardly between the bars 41 and 42 to provide the handles 55.

In Figures 10 to 12 inclusive, I have illustrated a modified form of handle which can be used with those forms of by invention illustrated in Figures 1 to 5 inclusive. The handle is indicated by the reference character 60 and may be constructed of wood or the like and can be of a cylindrical configuration.

This handle is provided with an axial bore 61 through which extends the shank of an eye bolt 62. The eye of the eye bolt 62 can receive one upright or rod 16 of the frame and the other rod 17 is adapted to be engaged by a washer 63 placed around the shank of the bolt, a thumb nut 64 being threaded on the bolt for drawing the washer 63 into grip-

ping contact with the upright or rod 17 and the eye into gripping contact with upright or rod 16.

In Figures 13 and 14 I have illustrated another form of my improved barrel holder and carrier and the same is generally indicated by the reference character C. As shown, this barrel carrier and lifter may also be formed of wire of the desired gage or a length of bent rod, and the same includes side bars 70 and 71, which are coiled intermediate their ends to provide eyes 72. The bars 70 and 71 extend forwardly in angular relation relative to the eyes as clearly shown in Figures 13 and 14, and the upper ends of the rods 70 and 71 are extended forwardly to provide arms 74, which are connected by a curved jaw or bight portion 75. The lower ends of the rods 70 and 71 are provided with forwardly projecting legs 76 having formed thereon the vertically extending sharpened prongs 77, which are adapted to engage under the barrel as shown in Figure 14, the curved bight portion 75 engaging the sides of the barrel at a point spaced from the bottom thereof. The eyes 72 receive a holding bolt 78, which extends through the axial bore of a handle 79, and the thumb or like nut 80 can be threaded on the bolt for holding the handle in position against displacement. The form of barrel lifter and carrier shown in Figures 13 and 14 is of simple yet effective nature.

From the foregoing description, it can be seen that I have provided an exceptionally simple and durable device for facilitating the carrying of barrels.

Changes in details may be made without departing from the spirit or the scope of this invention, but:—

What I claim as new is:

1. A barrel lifting device comprising a pair of like members for engaging on opposite sides of the barrel, each of said members including a frame, means at one end of the frame for engaging under the rim of the barrel, means at the opposite end of the frame for engaging the barrel at a point spaced from the rim, said last named means acting to space the major portion of the frame from the barrel, a handle carried by said portion of the frame, said handle being adjustable.

2. A barrel handling and carrying device comprising a pair of like members for engaging the opposite sides of the barrel, each of said members including a frame including spaced parallel side bars, means carried by the upper ends of the bars for engaging a barrel at a point spaced from the rim, means carried by the lower ends of the bars for engaging under the rim, a handle between said bars, said handle including a tubular hand grip, a bolt extending through the tubular hand grip and engaging one side of the bars, bar gripping members looped about the bolt and engaging said bars, and a wing nut on the bolt engaging one of said gripping members.

3. A barrel carrying and lifting device comprising a pair of like devices for engaging on opposite sides of the barrel, each of said devices comprising a frame formed from a single length of material and including a pair of spaced parallel side bars, a forwardly extending offset bight portion connecting the upper ends of the bars for engaging the barrel at a point spaced from the rim, forwardly projecting legs carried by the lower ends of the bars having an offset portion, upstanding prongs carried by the forward ends of the legs for engaging under the rim of a barrel, and a handle carried by said bars.

4. A barrel carrying and lifting device comprising a pair of like devices for engaging on opposite sides of the barrel, each of said devices comprising a frame formed from a single length of material and including a pair of spaced parallel side bars, a forwardly extending offset bight portion connecting the upper ends of the bars for engaging the barrel at a point spaced from the rim, forwardly projecting legs carried by the lower ends of the bars having an offset portion, upstanding prongs carried by the forward ends of the legs for engaging under the rim of the barrel, a handle carried by said bars, and an adjustable jaw slidable on the leg toward the tongues.

5. A barrel carrying and lifting device comprising a pair of like devices for engaging on opposite sides of the barrel, each of said devices comprising a frame formed from a single length of material and including a pair of spaced parallel side bars, a forwardly extending offset bight portion connecting the upper ends of the bars for engaging the barrel at a point spaced from the rim, forwardly projecting legs carried by the lower ends of the bars having an offset portion, upstanding prongs carried by the forward ends of the legs for engaging under the rim of the barrel, a handle carried by said bars, an adjustable jaw slidable on the leg toward the prongs, said adjustable jaw including a sheet metal plate having a base plate and an upstanding vertical wall, the ends of the base plate having guide eyes slidable on the legs.

6. A barrel lifting device comprising a frame formed from a single length of material and including a pair of spaced parallel bars, an integral offset bight portion connecting the upper ends of the bars for engaging a barrel, forwardly extending legs on the lower ends of the bars bent back upon themselves and looped to provide eyes, inwardly directed arms on the bent portions coiled about the cross bars, and an angle bar placed on the eyes, and bolts extending through the eyes and angle bar.

7. A barrel lifting device comprising a

frame formed from a single length of material and including a pair of spaced parallel bars, an integral offset bight portion connecting the upper ends of the bars for engaging a barrel, forwardly extending legs on the lower ends of the bars bent back upon themselves and looped to provide eyes, inwardly directed arms on the bent portions coiled about the cross bars, an angle bar placed on the eyes, bolts extending through the eyes and angle bar, the coiled portion being continued parallel with the bars and looped about said bars and having inwardly directed extension providing handles.

In testimony whereof I affix my signature.

SOREN C. JENSEN.