United States Patent [19]

Welch, deceased

[11] **3,861,734**

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[54] **TUBULAR SAFETY PICK-UP SLING**

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[73] Assignees: **Maxine Welch; Harlan Welch,** ; part interest to each

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[52] **U.S. Cl.** ..... **294/74,** 214/1 PA, 224/45 P

[51] **Int. Cl.** **B66c 1/12**

[58] **Field of Search** ... 294/74, 67 E, 67 EA, 67 BA; 214/1 P, 1 PA; 248/60, 74 B; 224/45 R, 45 P, 55, 58

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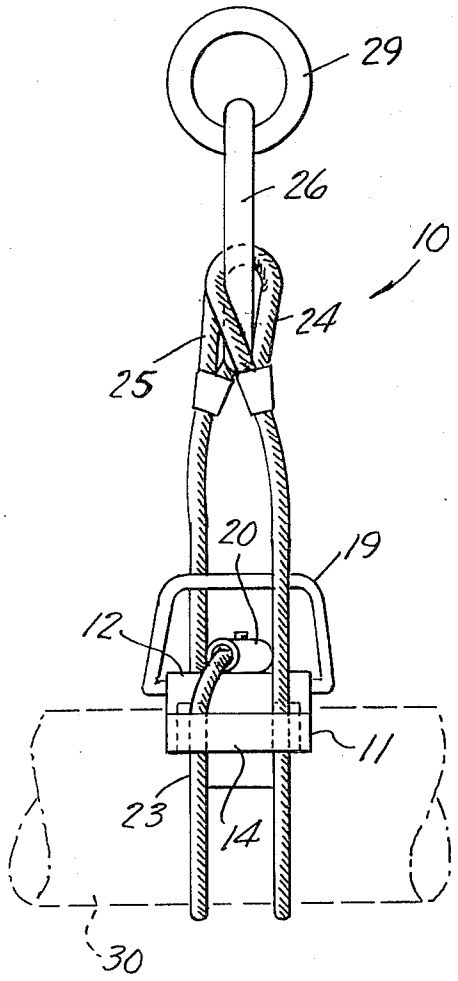
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Assistant Examiner—James L. Rowland
Attorney, Agent, or Firm—Victor J. Evans & Co.

[57] **ABSTRACT**

A safety pick-up sling for handling tubular goods including a formed saddle having an arcuate recess to engage the tubular goods and having a steel cable secured centrally to the top of the saddle and extending twice beneath the saddle to encompass the goods. The steel cable has its opposite free ends secured to an equalizing lifting ring for attachment to a lifting cable. The lifting action of the lifting cable on the equalizing ring tightens the cable to the saddle to hold the tubular goods therein.

4 Claims, 5 Drawing Figures



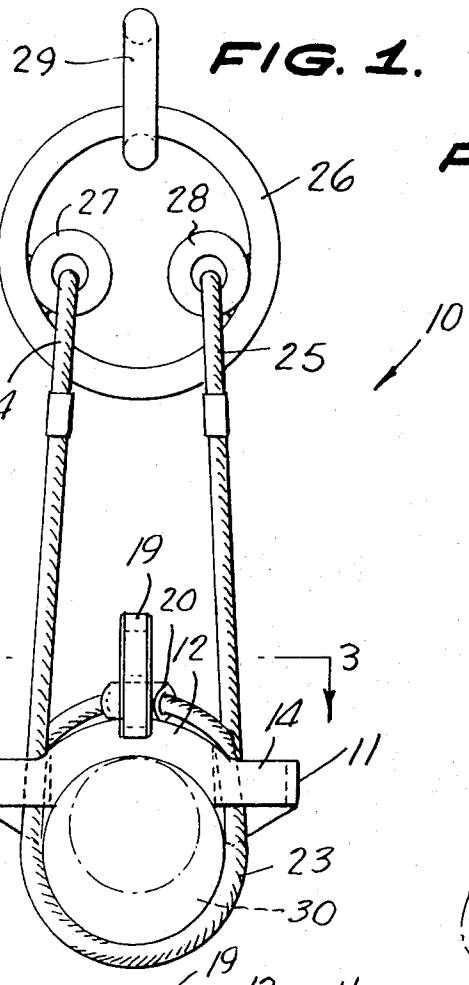


FIG. 1.

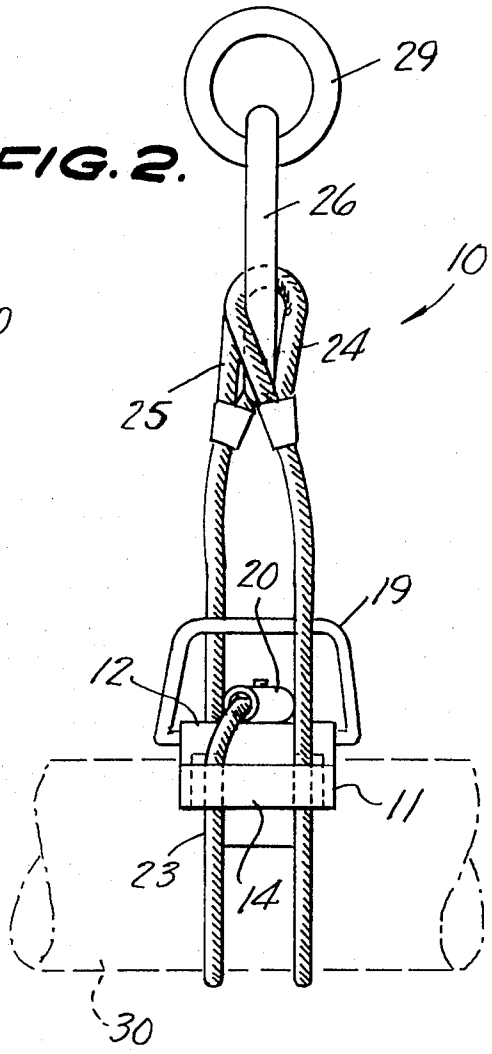


FIG. 2.

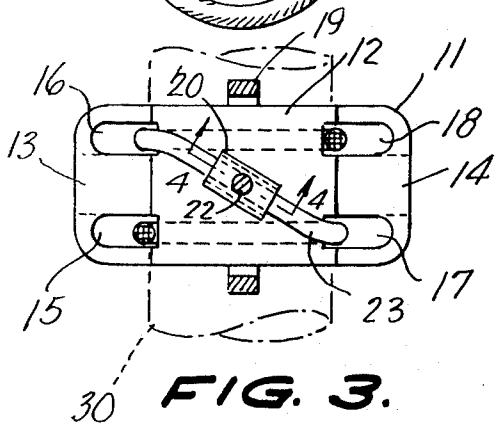


FIG. 3.

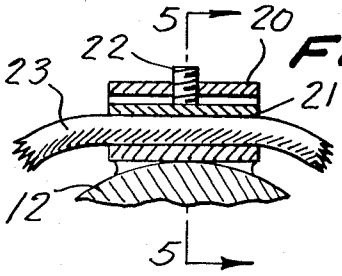


FIG. 4.

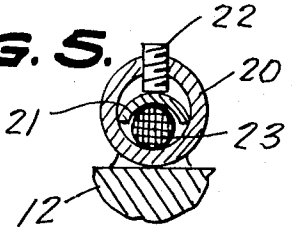


FIG. 5.

TUBULAR SAFETY PICK-UP SLING

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

The present invention relates to safety pick-up slings for tubular goods such as pipes.

SUMMARY OF THE INVENTION

A formed steel saddle is provided with an actuate face to engage against tubular goods and has a cable centrally locked to the upper side of the saddle and extending twice therebeneath to encompass the tubular goods. The free ends of the cable extend upwardly and are connected to an equalizing lifting ring positioned thereabove.

The primary object of the invention is to provide a tubular safety pick-up sling inwhich the lift effort is equalized and causes the sling to tighten on the load.

Other objects and advantages will become apparent in the following specification when considered in light of the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a side elevation of the invention;

FIG. **2** is a front elevation of the invention;

FIG. **3** is a horizontal sectional view, taken along the line **3—3** of FIG. **1**, looking in the direction of the arrows;

FIG. **4** is an enlarged fragmentary vertical sectional view, taken along the line **4—4** of FIG. **3**, looking in the direction of the arrows; and

FIG. **5** is an enlarged transverse sectional view, taken along the line **5—5** of FIG. **4**, looking in the direction of the arrows.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawings in detail, wherein like reference characters indicate like parts throughout the several figures, the reference numeral **10** indicates generally a tubular safety pick-up sling constructed in accordance with the invention.

The sling **10** includes a metallic saddle **11** having a semi-cylindrical central portion **12** connected to a pair of opposed generally horizontal flanges **13, 14.**

The flange **13** has a pair of spaced parallel elongate apertures **15, 16** extending therethrough and the flange **14** has a pair of elongate spaced apertures **17, 18** formed therein. The apertures **15, 17** are arranged in aligned relation and the apertures **16, 18** are arranged in aligned relation. A generally U-shaped handle **19** is integrally secured to the arcuate portion **12** of the saddle **11** and extends transversely thereacross to permit the saddle **11** to be moved from place to place by hand.

A cable clamp tube **20** is welded to the actuate portion **12** of the saddle **11** at the top thereof and arranged to extend in a line between the aperture **16** and the aperture **17** as can be clearly seen in FIG. **3.** A semi-cylindrical cable jaw **21** is positioned in the cable clamp **20** and a set-screw **22** extending through the cable clamp **20** is adapted to press the jaw **21** in clamping engagement with a cable **23** which extends through the clamp **20.**

The cable **23** has its central portion clamped in the cable clamp **20** and has loops **24, 25** formed on its opposite ends. An equalizing lifting ring **26** is provided with a pair of rings **27, 28** rigidly secured thereto internally thereof. The loop **24** loops through the ring **27** and the loop **25** loops through the ring **28.** An attaching ring **29** extends through the lifting ring **26** to attach the sling **10** to a lifting cable.

In the use and operation of the invention the cable **23** is loosened so that the portions thereof which extend down through the apertures **15, 16, 17** and **18** may engage about a tubular object such as a pipe **30.** Lifting pressure is then brought to bear on the lifting ring **29** causing the cable **23** to tighten about the pipe **30** so that the pipe **30** can then be lifted safely.

When it is desired to carry the sling **10** from place to place it may be grasped by the handle **19.**

Having thus described the preferred embodiment of the invention it should be understood that numerous structural modifications and adaptations may be resorted to without departing from the spirit of the invention.

What is claimed is:

1. A safety pick-up sling for handling tubular objects comprising a saddle having a central arcuate portion for engaging the tubular objects, a cable clamp secured to the top of said saddle, a cable releasably secured intermediate its opposite ends to said cable clamp on said saddle and adapted to encompass a tubular object engaged against said saddle, and means attached to opposite ends of said cable for tightening said cable against a tubular object and the saddle for lifting the tubular object.

2. A device as claimed in claim **1** wherein the means connected to the free ends of said cable comprises an equalizing lifting ring, said ring including a pair of rings secured to said cable and rigidly secured internally of said lifting ring.

3. A device as claimed in claim **1** including a handle rigidly affixed to said saddle for carrying said sling.

4. A device as claimed in claim **1** wherein said cable extends through a plurality of spaced apart apertures in said saddle to extend twice around a tubular object clamped against said saddle.

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