

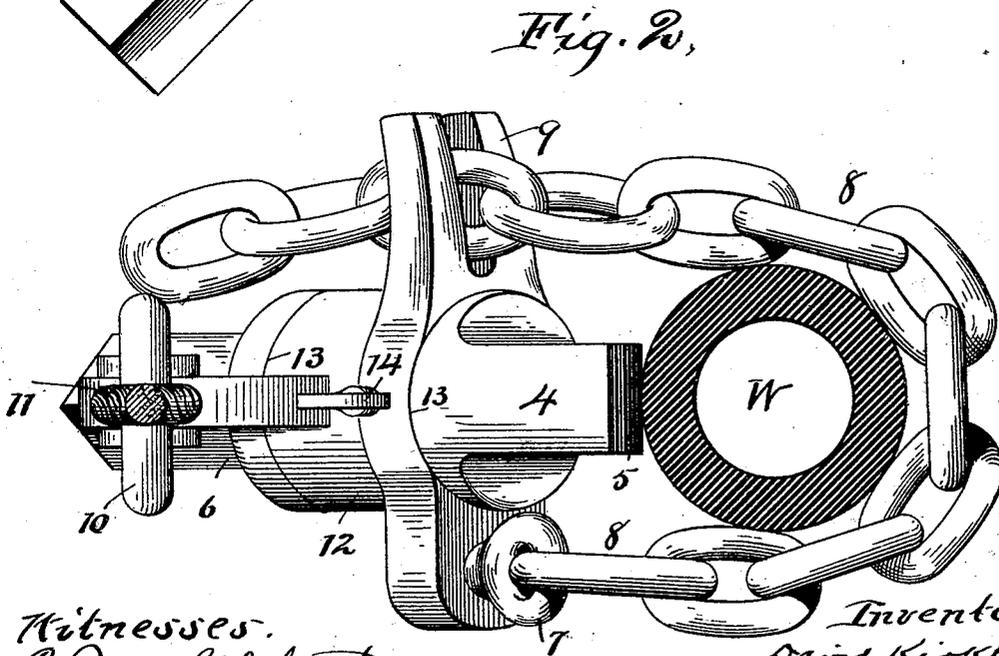
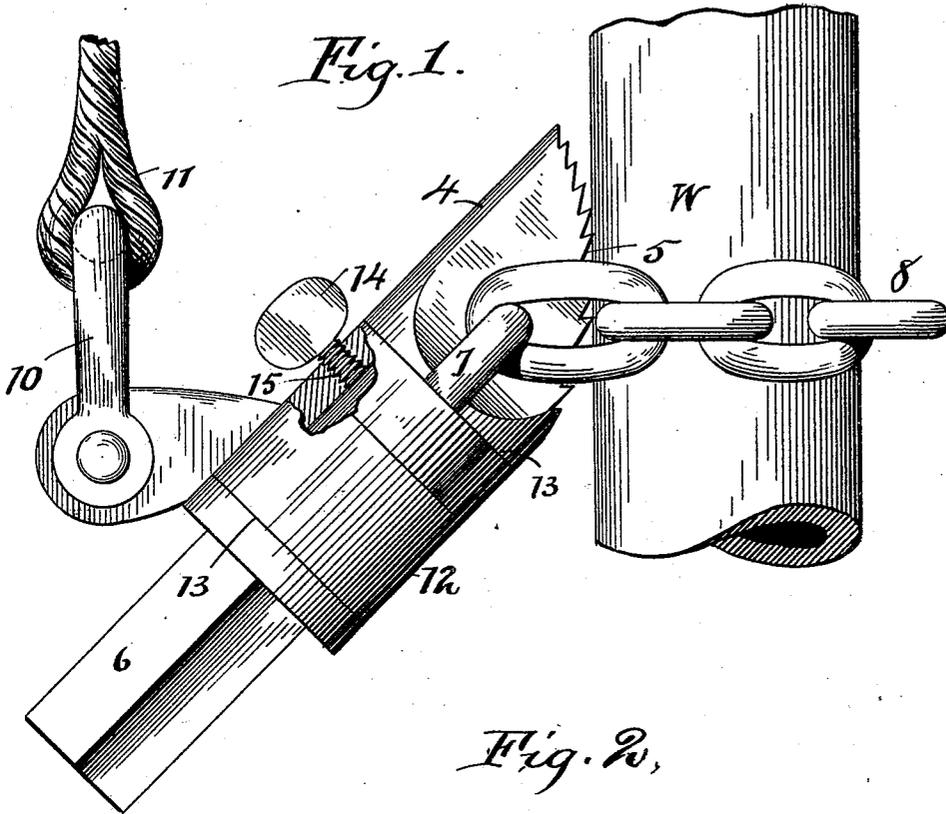
(No Model.)

2 Sheets—Sheet 1.

D. KIRKBRIDE.  
LIFTING OR HOISTING TOOL.

No. 517,281.

Patented Mar. 27, 1894.



Witnesses.  
*E. Byron Gilchrist*  
*Crowder*

Inventor:  
 David Kirkbride  
*By Leggett & Leggett*  
 his Attorneys.

(No Model.)

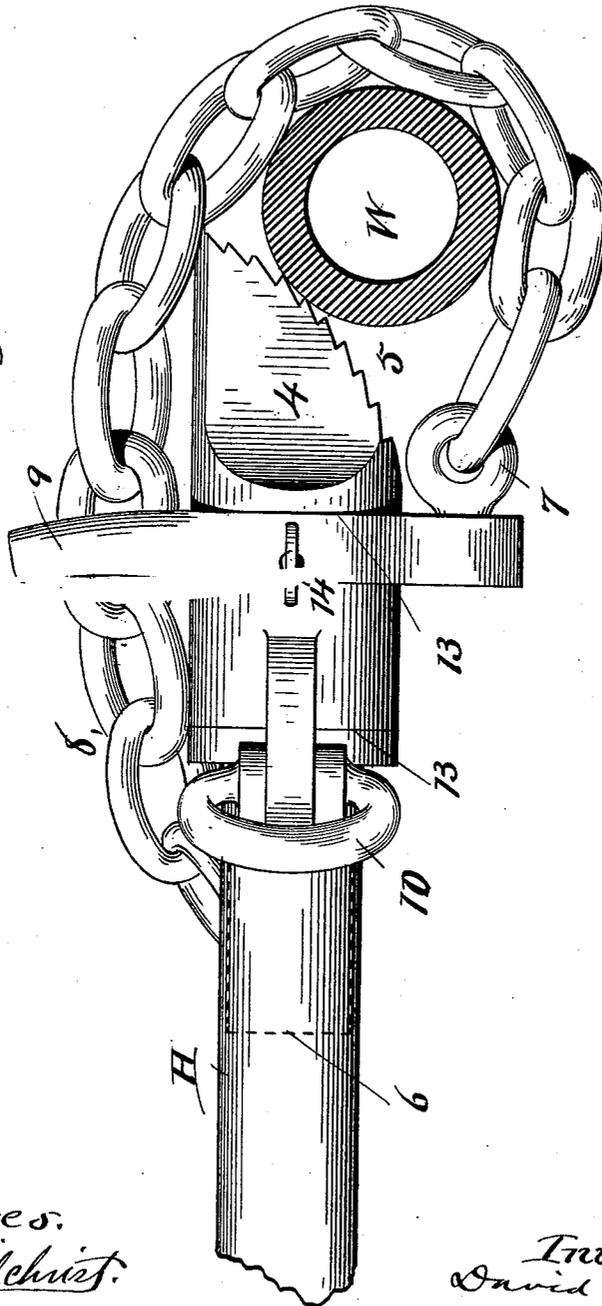
2 Sheets—Sheet 2.

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*Fig. 3.*



*Witnesses:*  
*E. Byron Gilchrist.*  
*[Signature]*

*Inventor:*  
*David Kirkbride*  
*Ray Segett & Segett.*  
*his Attorneys.*

# UNITED STATES PATENT OFFICE.

DAVID KIRKBRIDE, OF SALEM, OHIO.

## LIFTING OR HOISTING TOOL.

SPECIFICATION forming part of Letters Patent No. 517,281, dated March 27, 1894.

Application filed May 15, 1893. Serial No. 474,300. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID KIRKBRIDE, of Salem, in the county of Columbiana and State of Ohio, have invented certain new and useful  
5 Improvements in Lifting or Hoisting Tools; 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 pertains to make and use the  
10 same.

My invention relates to improvements in lifting or hoisting-tools, more especially designed for lifting or hoisting such objects as tubing, pipe, &c., and it consists in certain  
15 features of construction and in combinations of parts hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved tool showing  
20 its application, a portion of the tool being in section to more clearly show certain features in the construction hereinafter described. Fig. 2 is a top plan relative to Fig. 1. Fig. 3 is a side elevation of the tool showing its ap-  
25 plication as a pipe-wrench.

My improved hoisting or lifting tool comprises a stationary jaw, 4, that is toothed or serrated upon its working face, as at 5, for biting the work to be hoisted or lifted. The  
30 tool at one side of its jaw, or shank 6 of the jaw, is provided with an eye or suitable device, 7, for attaching a chain, 8, and, at the side opposite to the point of attachment of the chain, the tool is provided with a later-  
35 ally-projecting fork, 9, for the purpose hereinafter described. The tool, at its top side, preferably somewhat rearward of and mid-way between the point of attachment of chain 8 and fork 9, is provided with a clevis, 10, or  
40 other suitable device, for the attachment of a chain, rope or cable, 11, for elevating the tool. The application of the tool is very clearly shown in Figs. 1 and 2, wherein the tool is  
45 shown applied to a pipe or piece of tubing, W. The tool is placed in position so that its toothed or serrated jaw shall bite the work to be hoisted or lifted, and chain, 8, is then tightly passed around the work as shown, and secured in position between the members of  
50 fork 9, the members of the fork being located apart a distance just sufficient to accommodate the reception of a link of the chain flat-

wise, and hence the link of the chain next rearward of the fork constitutes a stop to prevent the loosening of the chain on the work. 55

My improved hoisting or lifting tool is not only exceedingly simple in construction but will be found very useful.

A feature of considerable importance, to which attention has not yet been called, consists in the convertibility of the tool from a hoisting or lifting device to a wrench suitable for turning and handling pipe, &c. To this end, parts 7 and 9 are rigid with a collar or sleeve, 12, that is loosely or revolubly mounted  
65 upon shank 6 between two shoulders 13 and is secured in the desired adjustment by means of a set-screw 14 that engages the shank through a correspondingly-threaded hole, 15, in sleeve or collar 12. By loosening screw 14  
70 and turning sleeve or collar 12 to bring part 7 at the side of the tool having the serrated biting surface and to bring fork 9 into position at the opposite side of the tool, and thereupon tightening the set-screw, the parts are  
75 in position for use as a wrench, said position of parts being shown in Fig. 3, that exhibits the tool applied to a pipe. Shank A' of the tool, at its outer portion, should be made square or angular or of other suitable shape  
80 in cross section so that, when a correspondingly socketed handle H (see Fig. 3) is mounted upon the shank for manipulating the tool when used as a wrench, the handle cannot  
85 turn upon the shank.

A not unimportant feature of the invention also consists in the curved or eccentric shape of the toothed or serrated jaw of the tool, whereby the latter readily adjusts itself to the  
90 work.

Having thus described the preferred embodiment of my invention, what I claim is—

1. A combined wrench and hoisting or lifting tool comprising a stationary jaw toothed or serrated upon its working face, a collar or sleeve loosely or revolubly mounted upon the shank of the tool, said sleeve or collar at one side having attached a chain, suitable means rigid with the opposite side of said collar for securing the chain when the latter is passed  
95 around the work preparatory to the operation of the tool, suitable means for preventing endwise movement of said sleeve or collar, and suitable means for securing said collar or  
100

sleeve in the desired adjustment, substantially as set forth.

2. A combined hoisting or lifting tool and wrench comprising a stationary-jaw, curved or eccentrically-shaped and toothed or serrated, substantially as indicated, a collar or sleeve, 12, loosely or turnably mounted upon the shank of the tool and fitting between shoulders on the shank, a chain attached to the one side of the aforesaid collar or sleeve, and suitable means rigid with the opposite side of the sleeve or collar for securing the chain when the latter is placed around the work

preparatory to the operation of the tool, a set-screw for holding the collar in position upon the shank and a clevis, 10, pivotally connected with said collar, substantially as and for the purpose set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 15th day of April, 1893.

DAVID KIRKBRIDE.

Witnesses:

D. B. BURFORD,  
L. H. FARQUHAR.