

W. ESTERBERG.
 PIPE WRENCH ATTACHMENT FOR MONKEY WRENCHES.
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Patented Mar. 11, 1913.

1,055,729.

Fig. 1.

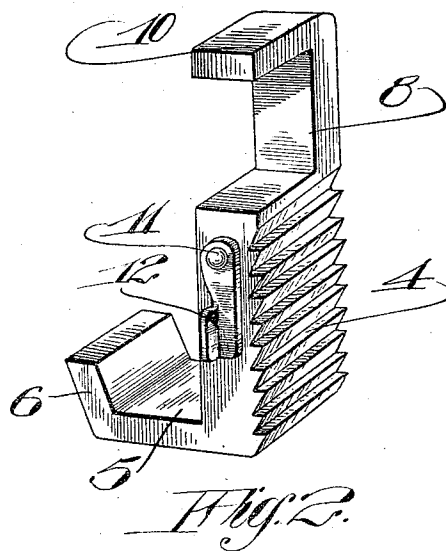
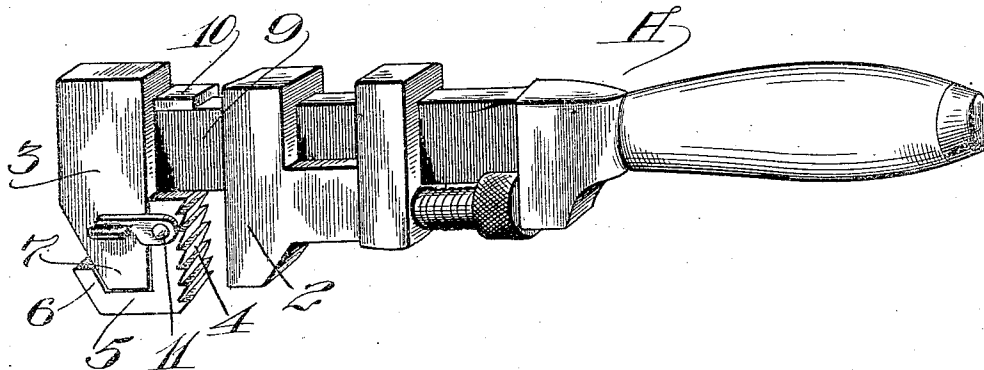


Fig. 2.

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Att'y

UNITED STATES PATENT OFFICE.

WILLIAM ESTERBERG, OF STOCKTON, CALIFORNIA, ASSIGNOR OF ONE-HALF TO
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PIPE-WRENCH ATTACHMENT FOR MONKEY-WRENCHES.

1,055,729.

Specification of Letters Patent.

Patented Mar. 11, 1913.

Application filed April 15, 1912. Serial No. 690,939.

To all whom it may concern:

Be it known that I, WILLIAM ESTERBERG, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented new and useful Improvements in Pipe-Wrench Attachments for Monkey-Wrenches, of which the following is a specification.

My invention relates to an attachment especially designed for use in combination with monkey wrenches.

It consists of a jaw having its face formed to serve as a pipe wrench, and means by which this jaw may be efficiently attached to, and readily removed from one of the jaws of the wrench.

It also comprises details of construction which will be more fully explained by reference to the accompanying drawings in which—

Figure 1 is a view of the wrench showing improved attachment in place. Fig. 2 is a perspective view of the attachment.

As shown in the drawings, A is a wrench of the character known as "monkey wrenches", having the inner and outer jaws 2 and 3. Wrenches of this character are efficient for the holding or turning of nuts or articles having polygonal faces, but for the purpose of holding or turning a cylindrical object they do not have sufficient grip, on account of the impossibility of forcing the jaws together with sufficient pressure, and for the purpose of turning rods or pipes it is necessary to have a gripping attachment of some character. Wrenches are, therefore, made having such gripping jaws as a permanent part of their structure, but for the purpose of general use I have designed a means for applying a corrugated jaw whenever needed and which is readily removable when the wrench is designed for ordinary purposes. 4 represents a face of this jaw; the length and breadth of this portion being such as to coincide with the inner face of the main jaw 3 and to extend slightly beyond its outer end. This extension is turned over, as shown at 5, and again turned to form a hooked por-

tion, as at 6, which is adapted to fit the tapered outer end 7 of the jaw 3.

At one side of the base or inner end of the part 4 is an extension 8 having a depth equal to the diameter of the shank 9 of the wrench; and 10 is an extension of the part 8 turned at right angles so that it will clasp the shank 9, as plainly shown in the drawing. Through the portion 4 of this supplemental jaw, extends a shank 11 which may be screw-threaded on the inside to fit the corresponding screw-threaded portion of the part 4. This shank has upon its outer end a thumb piece 12 by which it may be turned.

The device is readily applied to the wrench as follows: The jaws being separated sufficiently for the purpose, the part 4 is attached to the shank and jaw of the wrench by slipping the projecting tongues 6 and 10 over the tip of the jaw and the shank 9 respectively, and applying them so that the open side of the jaw 4 will pass over the shank 9; the thumb piece 12 standing substantially in line with the part 4 while this application is being made. After the supplemental jaw has been thus placed, the thumb piece 12 is turned to engage with the contiguous side of the jaw 3; this shank being screwed in at the same time so that a perfect lock is formed and the jaw is as solid as if a part of the main jaw. In this way I am enabled to efficiently apply a device to form a pipe wrench, and to readily remove it when the wrench is desired for other purposes.

These attachments are cheaply formed and may be applied to wrenches of any size of this class.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

A pipe wrench attachment for monkey wrenches, consisting of a toothed jaw adapted to register with the inner face of the main jaw of the wrench, said toothed jaw having a forward extension and a turned-over portion fitting the tip of the main jaw of the wrench, a rear extension from one

side of said toothed jaw adapted to lie adjacent the side of the shank of the monkey wrench, a projecting toe upon said rear extension, and a thumb piece carried by said
5 toothed jaw and adapted to engage the main jaw of said monkey wrench to hold said attachment in place.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM ESTERBERG.

Witnesses:

FRANCIS CUTTING,

L. MILTON CUTTING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
