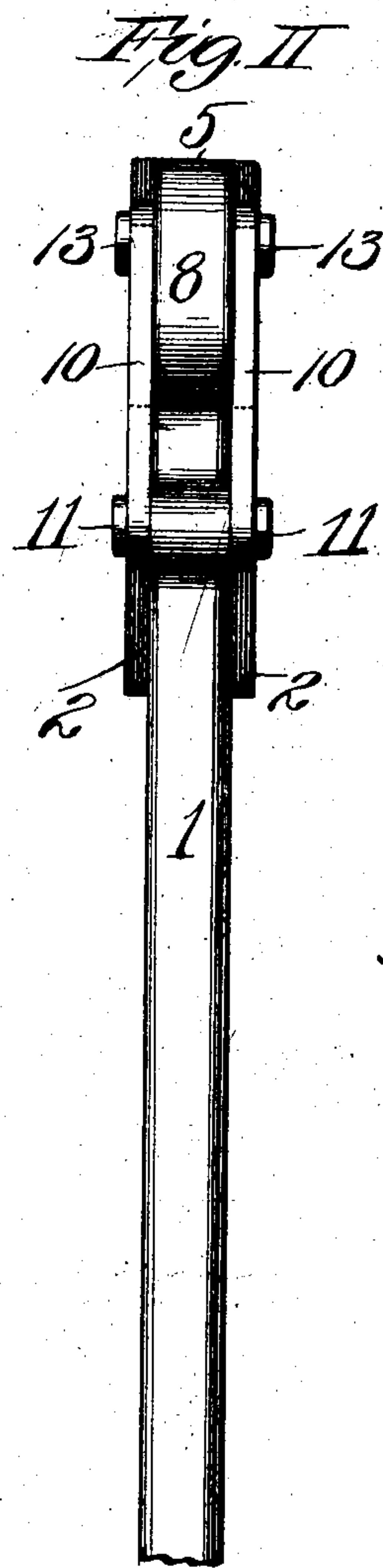
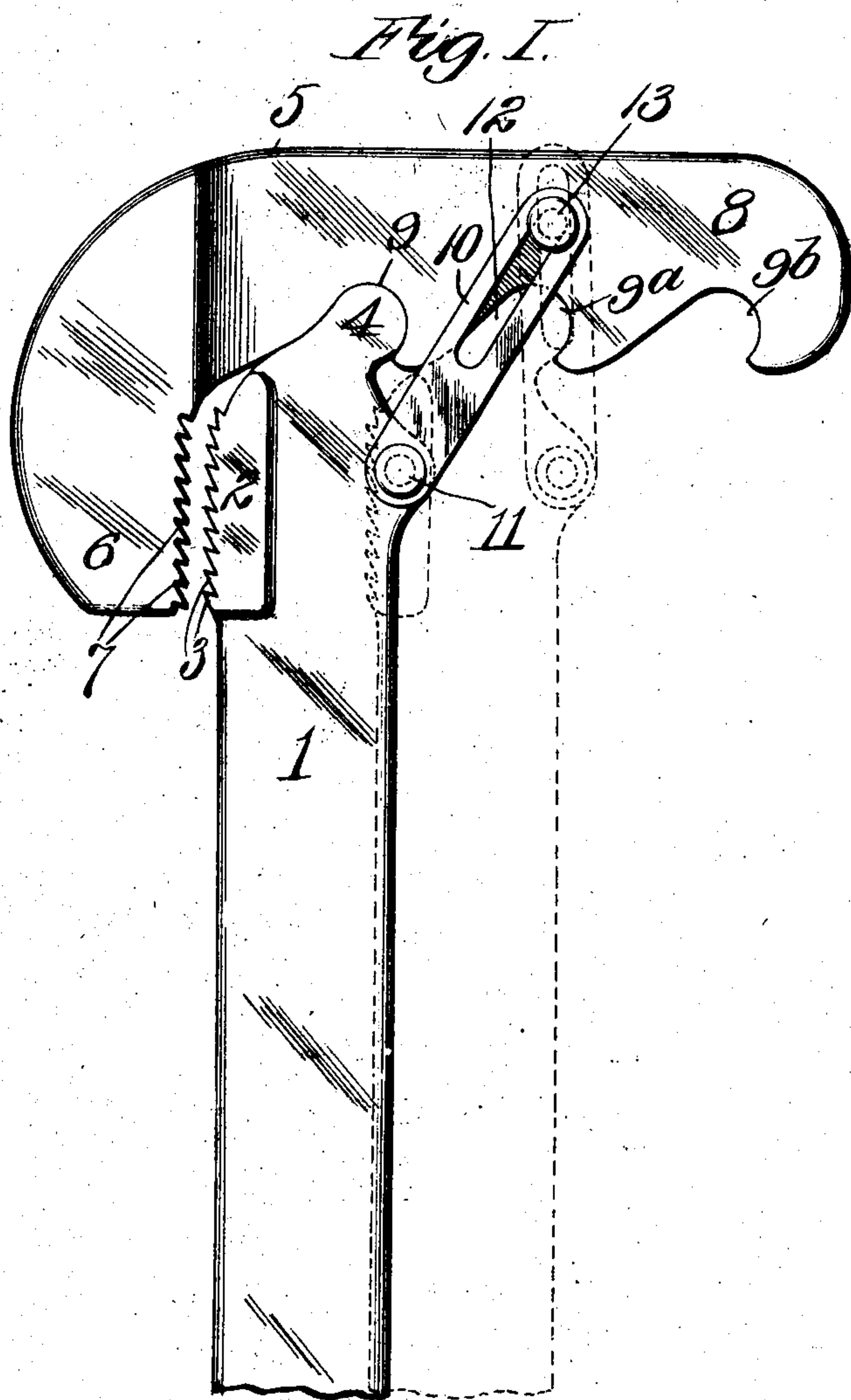


No. 834,216.

PATENTED OCT. 23, 1906.

A. MEIERHOFF.
PIPE WRENCH.

APPLICATION FILED MAR. 26, 1906.



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UNITED STATES PATENT OFFICE.

ADOLF MEIERHOFF, OF ST. LOUIS, MISSOURI.

PIPE-WRENCH.

No. 834,216.

Specification of Letters Patent.

Patented Oct. 23, 1906.

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To all whom it may concern:

Be it known that I, ADOLF MEIERHOFF, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have
5 invented certain new and useful Improvements in Pipe-Wrenches, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 My invention relates to that class of wrenches used for gripping and turning round objects; and it has for its object to so construct a wrench that it may be speedily adjusted to fit various-sized objects, such as
15 pipes.

Figure I is a side elevation of my wrench. Fig. II is a rear elevation of my wrench.

1 designates the shank of my wrench having a fixed jaw 2 near its forward end provided with a serrated face 3. The shank terminates at its forward end in the nose 4.
20

5 designates a movable jaw member, composed of a jaw 6, having a serrated face 7 and an arm 8 and angularly disposed to the jaw 6
25 and provided with a plurality of pockets 9, 9^a, and 9^b, in which the nose 4 of the shank 1 is adapted to seat.

10 designates a pair of links located at the sides of the wrench. These links are pivoted
30 to the shank 1 at 11 11 and are provided with slots 12, that receive studs 13, carried by the arm 8 of the jaw member 5. This slot-and-stud connection allows the links 10 to move freely and the member 5 to be swung
35 free from the shank-nose 4.

When my wrench is in operation, the movable jaw 6 is first placed in position with its inner gripping-face 7 touching the pipe or other round object to be operated upon, the nose 4
40 being at this time released from all of the pockets 9, 9^a, or 9^b. The serrated face 3 of the fixed jaw 2 is then brought in contact with the object to be gripped at a point diametrically opposite the point in contact with the jaw 6.
45 The shank-nose 4 is then seated in one of the pockets 9, 9^a, or 9^b, according to the size of the object to be gripped, (the adjustment being clearly seen in Fig. I by the parts in dotted position showing the movement of the
50 links 10 and the seating of the nose 4 in the pocket 9^a.) When pressure is brought to

bear on the shank of the wrench, serving to press the jaw 2 against the object to be gripped; the jaw 6 is likewise forced against the object by reason of the nose 4 being so
55 set in a pocket 9, 9^a, or 9^b that the pressure on the shank will cause the jaw 2 to be moved forwardly and communicate a rearward movement to the arm 8 and through it to the jaw 6, thus securing a grip on the object
60 between the jaws in a ratio to the pressure exerted on the shank 1.

While I have described my improvement as a "wrench," I wish to call attention to the fact that the device is of such nature
65 that it may be readily and efficiently used for clamping or drawing action upon members to which it may be applied, and thus have the action of a pair of tongs or a clamp. In so using the device it may be of utility in
70 drawing two or more objects together or for forcing a bolt, nail, or other fastening through objects that are to be joined by such fastening.

I claim—

1. In a pipe-wrench, the combination of a shank having a jaw near its forward end and a nose at its forward end, a movable jaw member consisting of a jaw and an arm angularly disposed relative to said jaw, and
80 links connecting said shank to said movable jaw member; said links being provided with slot-and-pin connection to one of said members and said jaw-member arm being provided with a pocket to receive the forward end
85 of said shank, substantially as set forth.

2. In a pipe-wrench, the combination of a shank having a jaw near its forward end and a nose at its forward end, a movable jaw member consisting of a jaw and an arm angularly disposed relative to said jaw; and
90 links connecting said shank to said movable jaw member; said links being provided with slot-and-pin connection to one of said members and said jaw-member arm being provided with a plurality of pockets to receive
95 said shank-nose, substantially as set forth.

ADOLF MEIERHOFF.

In presence of—

BLANCHE HOGAN,
H. G. COOK.