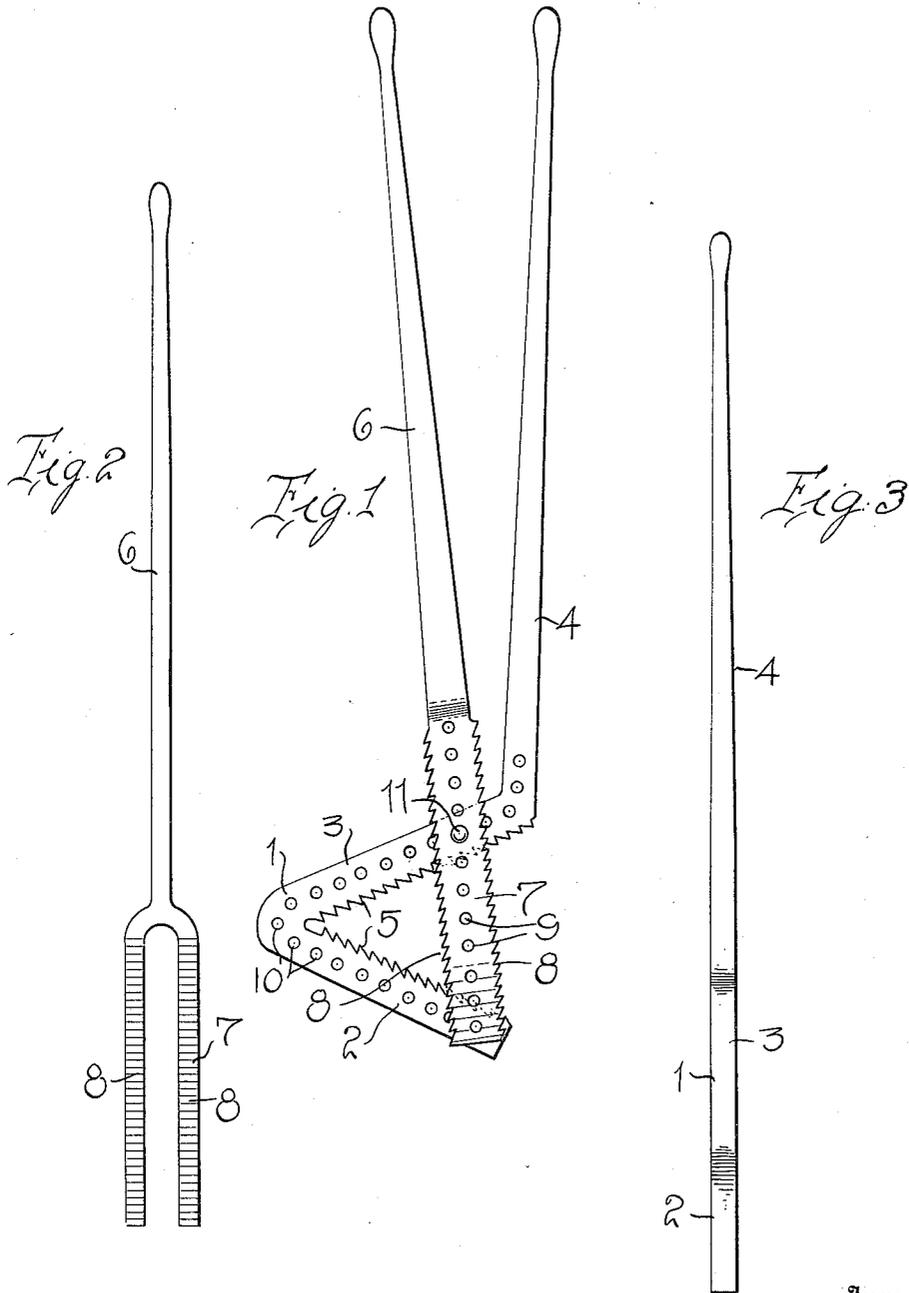


A. E. RICE.  
PIPE WRENCH.  
APPLICATION FILED JULY 24, 1915.

1,154,654.

Patented Sept. 28, 1915.



Inventor

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# UNITED STATES PATENT OFFICE.

ARLO E. RICE, OF MARCUS, IOWA.

## PIPE-WRENCH.

1,154,654.

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Application filed July 24, 1915. Serial No. 41,711.

*To all whom it may concern:*

Be it known that I, ARLO E. RICE, a citizen of the United States, residing at Marcus, in the county of Cherokee and State of Iowa, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is a specification, reference being had to the accompanying drawings.

This invention comprehends certain new and useful improvements in pipe wrenches, and has for its primary object a simple, durable and efficient construction of device of this character, the parts of which can be very cheaply manufactured and readily assembled and are not liable to get out of order, and which are so connected as to allow any desired kind of grip and leverage, according to the particular requirements of the work with which the wrench is used. And the invention also aims to generally improve devices of this class so as to render them more useful and commercially desirable.

With these and other objects in view, as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter more fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which,

Figure 1 is a side view of a pipe wrench embodying the improvements of my invention. Fig. 2 is a detail view of one of the jaws and handles, and Fig. 3 is a similar view of the other jaw and handle.

Corresponding and like parts are referred to in the following description and designated in the views of the accompanying drawing by like reference characters.

My improved pipe wrench comprises an angular jaw 1 which is composed of an outer member 2 and an inner member 3 integrally connected together, said jaw being preferably formed as one with a handle 4 and being preferably disposed in offset relation thereto with the extremity of the outer member 2 terminating in substantially longitudinal alinement with said handle. The inside edge of the angle of the jaw 1 is formed with alligator teeth projections, slanting the desired direction and degree, as shown.

6 designates the other handle of the tool. This is bifurcated at one end to form a prong 7 which constitutes the other jaw of the

device and which is designed to embrace the members 2 and 3, as shown, said prong being formed on its opposite edges with alligator teeth running in opposite direction and of any desired degree, size and slant. It will be understood, however, that the teeth 8 on the corresponding edges of the members of the bifurcations all slant in the same direction. The prong 7 is formed in each of its members with a plurality of transversely extending apertures 9. The apertures of one member of the prong registering with the apertures of the other member thereof, and the jaw 1 is also formed with a corresponding series of apertures 10, in each of its members 2 and 3, said apertures also preferably extending somewhat into the handle 4. A pivot pin or bolt 11 is adapted to be inserted through any registering apertures 9 and 10, so as to couple the parts together in any desired position, whereby the required grip and leverage will be secured.

From the foregoing description, in connection with the accompanying drawing, the operation of my improved pipe wrench will be apparent.

In the practical use of the device, the coupling pin 11 is inserted through any desired registering apertures 9 and 10, according to the size or other requirements of the pipe, rod or the like with which the wrench is designed to engage, and with either set of teeth 8, as desired, co-acting with the teeth 5 of the jaw 1 so that when the handles 4 and 6 are drawn together about the work the same will be securely clamped.

It will thus be seen that I have provided a very simple and durable construction of pipe wrench, the parts of which may be easily connected at any desired adjustment, and that each part of the wrench may be formed of a casting and very cheaply manufactured.

While the accompanying drawing illustrates what I believe to be the preferred embodiment of my invention, it is to be understood that the invention is not limited thereto, but that various changes may be made in the construction, arrangements and proportions of the parts without departing from the scope of the invention as defined in the appended claims.

What is claimed, is:

1. A wrench of the character described, comprising an angular jaw formed on the inside edge of the angle with teeth, said jaw

being also formed with apertures extending transversely therethrough, a handle connected to said jaw, another handle, a prong connected to the said last-named handle, and  
5 embracing the jaw and formed with teeth and with transversely extending apertures adapted to register with the apertures of the jaw, and a pivot bolt insertible in the registering apertures of the jaw and prong,  
10 for the purpose specified.

2. A wrench of the character described, comprising an angular jaw embodying two members each of which is formed with apertures extending transversely therethrough,  
15 a handle connected to said jaw, the jaw being disposed in offset relation to the handle,

another handle, a prong formed on one end of said last-named handle and embracing said jaw and formed on its edges with teeth,  
said prong being also formed with apertures  
20 extending transversely therethrough and adapted to register with the apertures of the jaw, and a pivot bolt insertible in the registering apertures of the prong and jaw,  
25 as and for the purpose set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ARLO E. RICE.

Witnesses:

R. W. MOORE,  
E. L. LUNDQUIST.

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