No. 748,153. PATENTED DEC. 29, 1903.

J. BARRETT.

OIL WELL SWIVEL WRENCH.

APPLICATION FILED JUNE 13, 1903.

NO MODEL.

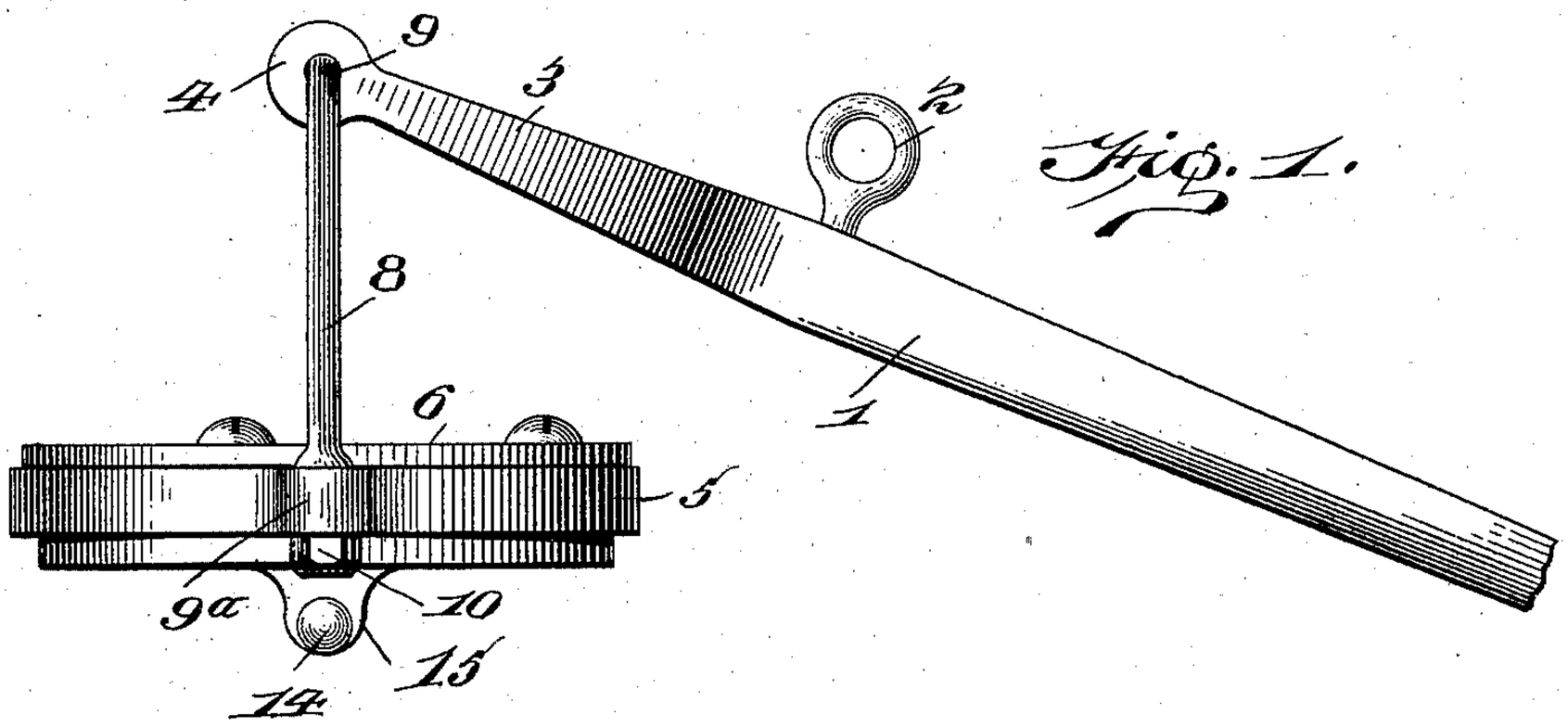


Fig. 1.

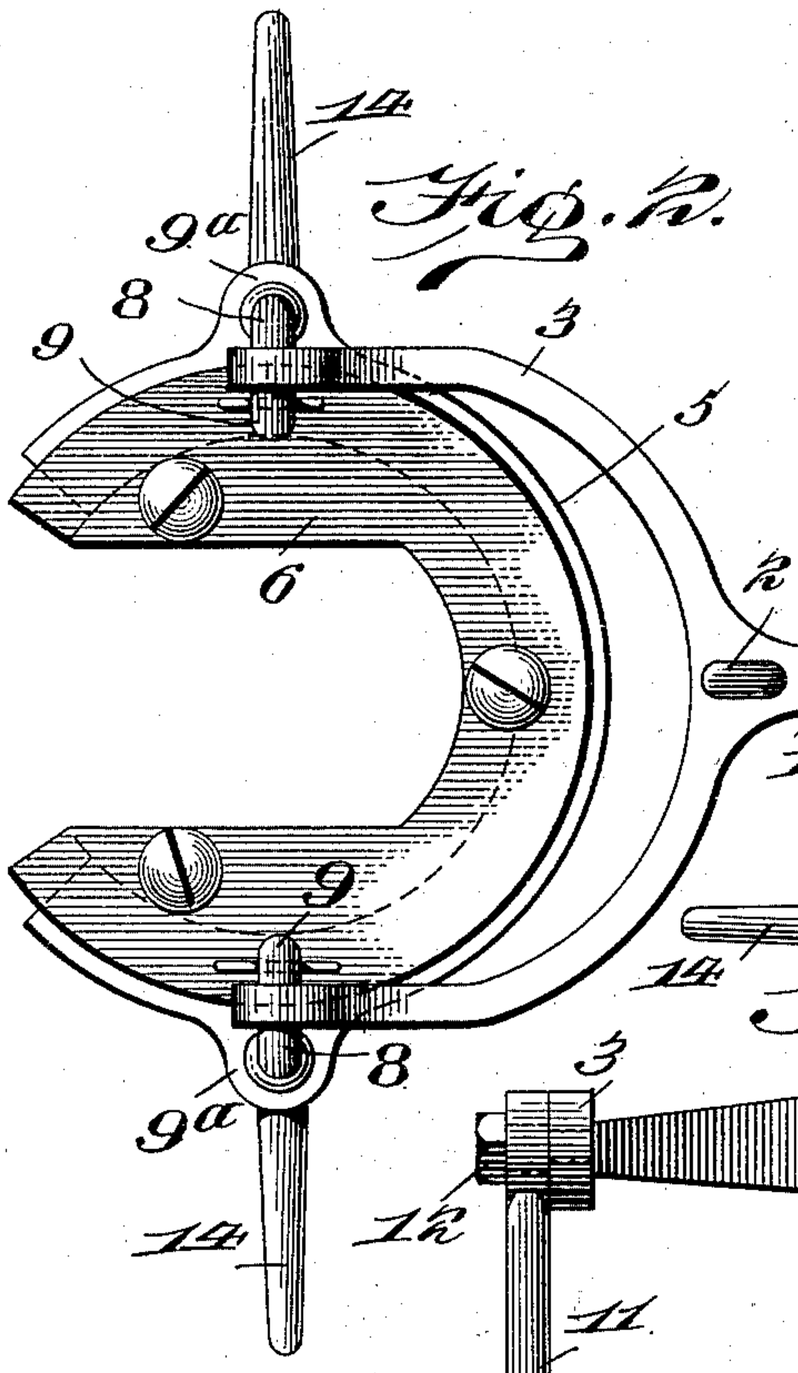


Fig. 2.

Fig. 3.

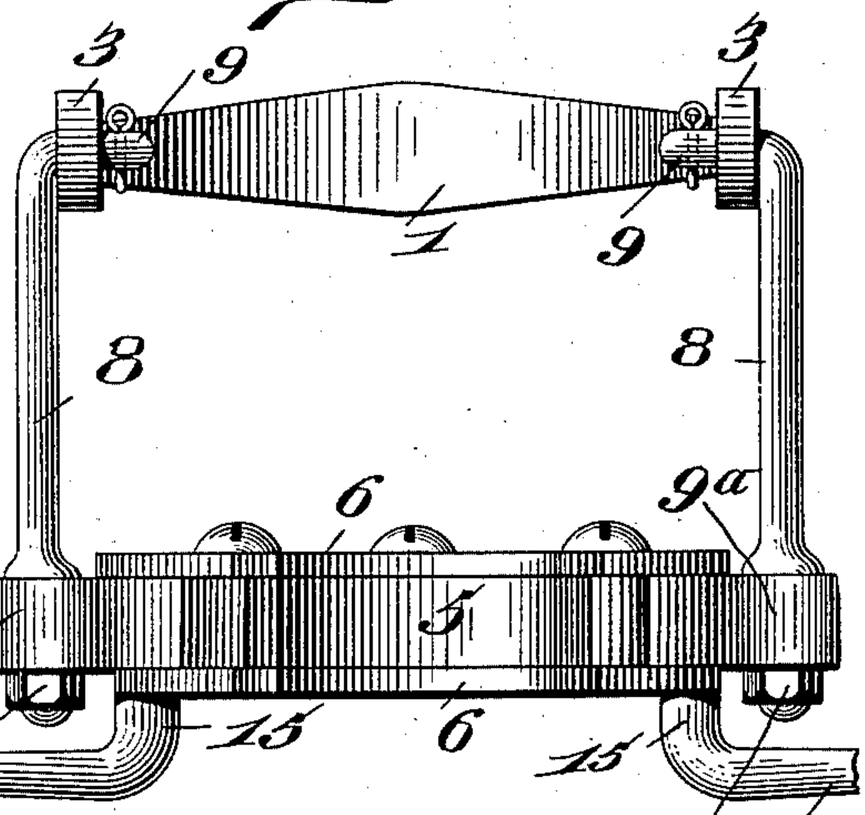
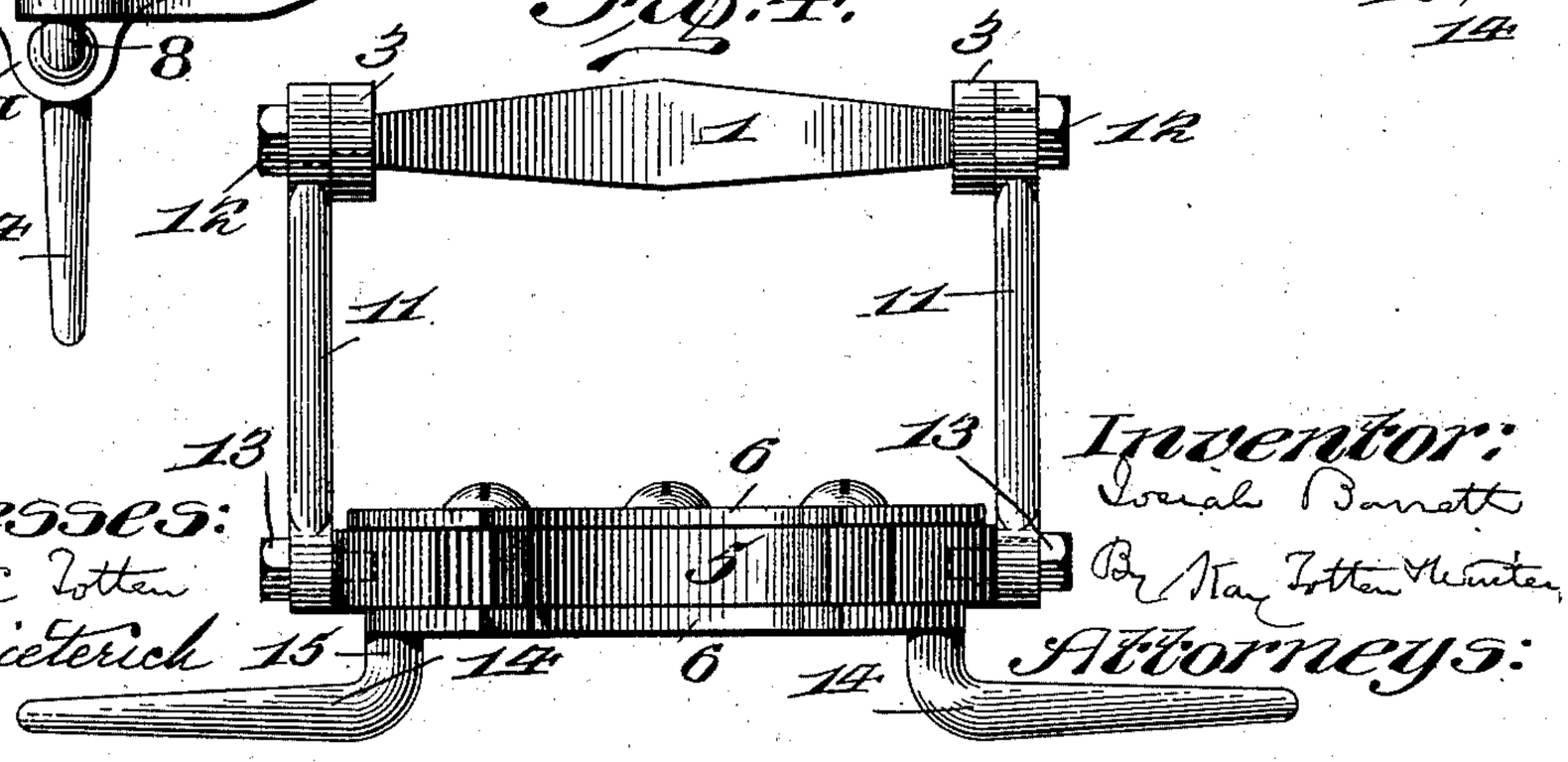


Fig. 4.



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No. 748,153. Patented December 29, 1903.

UNITED STATES PATENT OFFICE.

JOSIAH BARRETT, OF BELLEVUE, PENNSYLVANIA.

OIL-WELL SWIVEL-WRENCH.

SPECIFICATION forming part of Letters Patent No. 748,153, dated December 29, 1903.

Application filed June 13, 1903. Serial No. 161,285. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH BARRETT, a resident of Bellevue, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Oil-Well Swivel-Wrenches; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to tools for handling drill-bits or other tools used in drilling or operating Artesian wells and for like purposes, my tool also being applicable in general to the handling of any parts to be screwed together when in a vertical position whether in connection with Artesian wells or any other mechanical operations. It is an improvement on Letters Patent No. 561,305, dated June 2, 1896, issued to me and is intended to meet a difficulty in the use of tools for handling heavy parts requiring to be screwed together, owing to the amount of power necessary to unscrew or screw together such heavy parts.

My invention consists, generally stated, in providing the rotary tool-holder with a handle or handles whereby it may be turned in the swivel-ring and so arranging the parts that said handles will not interfere with the proper rotation of the tool-holder even if the lever is in an inclined position.

In the accompanying drawings, Figure 1 is a side view of the tool. Fig. 2 is a plan view of the same. Fig. 3 is a front view of the same, and Fig. 4 is a front view showing a slight modification.

In the drawings the lever or frame of the wrench is indicated at 1, and this may be supported, if desired, by any suitable crane or derrick by means of a chain or block, with a hook or ring passing through the eye 2. This lever is forked at its forward end, being provided with the arms 3, which are provided at their outer ends with suitable bearings or eyes 4. The swivel-ring is shown at 5, and this is of the form shown in my prior patent, being open on one side, as indicated in Fig. 2. The tool-holder or wrench portion proper, 6, is mounted to turn on this ring in the manner indicated in my former patent, being provided with a peripheral groove which engages the ring 5 and being preferably formed in two portions having one of its flanges formed as removable and interchangeable plates in the manner described in my former patent. This wrench portion is open on one side, as shown, so that it can be engaged with or disengaged from the drill-bit or other article to be handled. In prior constructions this rotatable wrench member or tool-holder has not been provided with means for turning the same on the swivel-ring. The object of the present invention is to provide said member with a handle or handles whereby it may be turned. One of the difficulties in the way of applying said member with a handle or handles arises from the fact that the lever 1 in actual use is seldom or never in a horizontal position, but, on the contrary, is generally in an inclined position, as shown in Fig. 1, and as the handle or handles in order to be effective must project radially beyond the periphery of the ring they will contact with the lever 1, and thus prevent the rotation of the tool-holder. To overcome this difficulty, I so mount the swivel-ring 5 that it is suspended below the lever-arms 3, thus giving ample clearance for the handles. This may be accomplished in various ways. For instance, as shown in Figs. 1 to 3, rods 8, having hooked ends 9, are secured in the eyes of the arms 3, and the ring 5 is provided with perforated lugs 9^a, through which the lower ends of said rods pass and wherein they are secured by nuts 10. In Fig. 4 suspending-links 11 are shown, being provided with eyes at both ends and being secured to the arms 3 by means of bolts 12 and to the ring 5 by means of bolts 13. In both cases, however, the ring 5 is mounted on the lever so as to swing with reference thereto and is suspended sufficiently far below the same, so that the radially-projecting arms will not contact with the lever in all ordinary positions of the latter.

The handles are shown at 14, and preferably two such handles, arranged diametrically opposite each other, are employed. Said handles may be either formed as an integral part of the tool-holder 6 or may be separate parts suitably attached thereto. As shown in the drawings, said tool-holder is provided with downwardly-projecting portions 15, and the

handles 14 are shown as integral with said portions and project out in a substantially straight line. This, however, may be varied within wide limits without affecting the spirit of my invention.

By my improvement the tool-holder or wrench proper can be turned in its swivel-ring with ease, and the arrangement is such that the lever 1 can be held in an inclined position without interfering with the proper turning of the tool-holder.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination with a frame or lever, a ring mounted thereon but in a different horizontal plane and arranged to swing with reference thereto and having an open portion, a rotary tool-holder swiveled in said ring and having an open portion and a seat to receive the tool to be handled, and an outwardly-projecting handle or handles connected to said tool-holder.

2. The combination with a frame or lever, of a ring suspended therefrom and mounted to swing with reference thereto, a rotary tool-holder swiveled in said ring and having a seat to receive the tool or other article to be handled, and a handle or handles connected to said tool-holder and projecting outwardly therefrom.

3. The combination with a forked lever or frame, of rods secured to the arms thereof and extending downwardly, a ring mounted on the lower ends of said rods and arranged to swing with reference to the lever, a rotary tool-holder swiveled in said ring and having a seat to receive the tool or other article to be handled, and a handle or handles connected to said tool-holder and projecting outwardly therefrom.

4. The combination with a forked lever or frame, of rods hinged to the arms thereof, a ring secured to the lower ends of said rods and having an open portion, a rotary tool-holder swiveled in said ring and having an open portion and a seat to receive the article to be handled, and a handle or handles connected to said tool-holder and projecting outwardly therefrom.

In testimony whereof I, the said JOSIAH BARRETT, have hereunto set my hand.

JOSIAH BARRETT.

Witnesses:
G. C. RAYMOND,
ROBERT C. TOTTEN.