

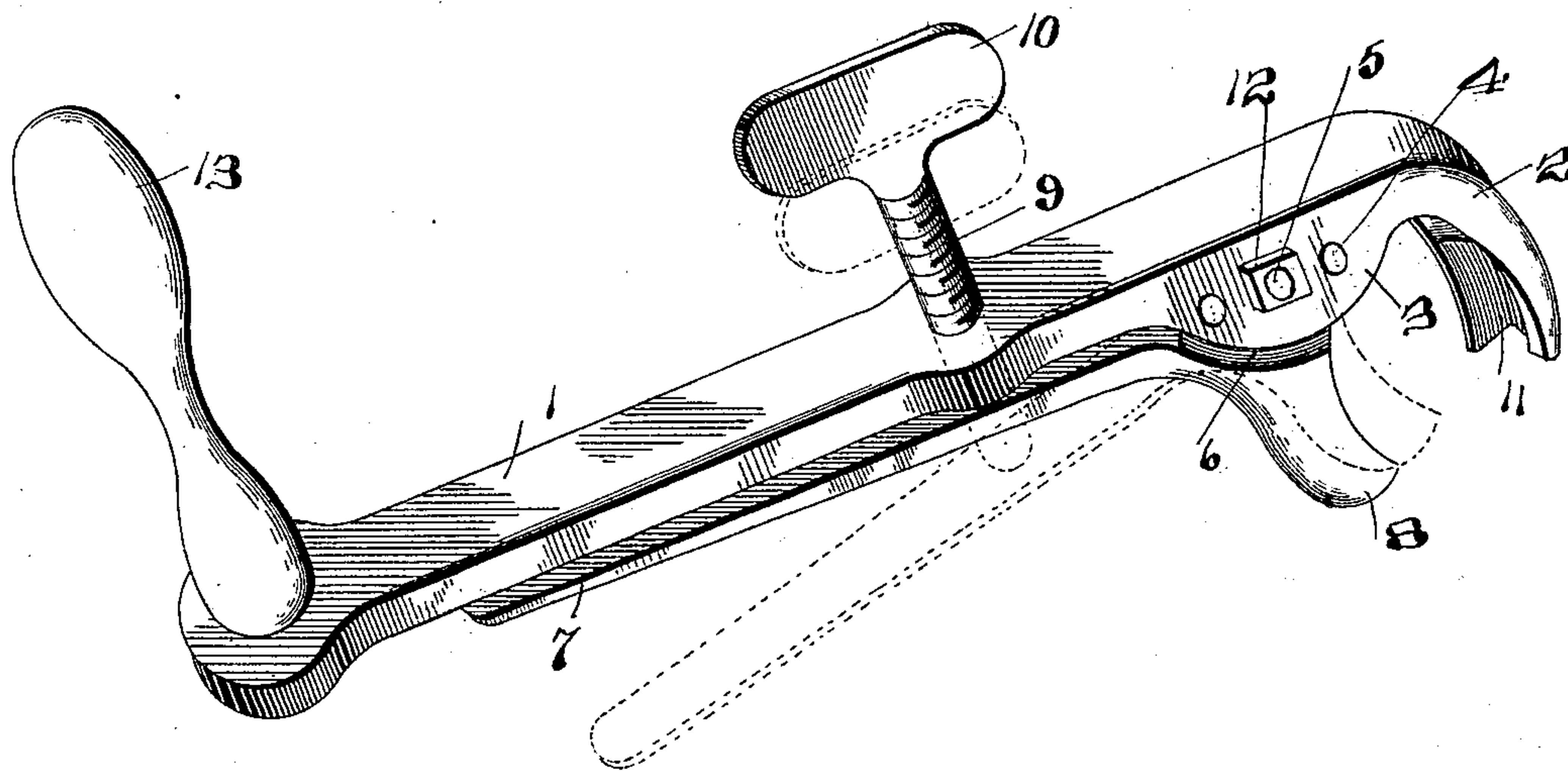
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Patented July 5, 1898.

W. SMITH & E. J. GOULD.  
BUGGY OR WAGON WRENCH.

(Application filed Nov 20, 1897.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

WATSON SMITH AND EDWIN J. GOULD, OF VALMONT, COLORADO.

## BUGGY OR WAGON WRENCH.

SPECIFICATION forming part of Letters Patent No. 606,945, dated July 5, 1898.

Application filed November 20, 1897. Serial No. 659,266. (No model.)

*To all whom it may concern:*

Be it known that we, WATSON SMITH and EDWIN J. GOULD, citizens of the United States, residing at Valmont, in the county of Boulder and State of Colorado, have invented certain new and useful Improvements in Buggy or Wagon Wrenches; and we 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 appertains to make and use the same.

Our present invention relates to a novel wrench, and has for its object the production of a device of this character which can be quickly adjusted to any size of nut, bolt-head, or other object to be turned and which when so adjusted may be employed as an ordinary wrench-crank to effect the removal of the part.

To the accomplishment of this and other objects our invention consists in providing a pair of pivoted members with a pair of clamping-jaws extending substantially at right angles to the members and in providing means for adjusting the pivotal connection between the members and a screw for securely clamping the jaws upon the object, and, further, in providing one of the members upon its end opposite the jaws with the handle, extending at right angles thereto in a direction opposite the said jaws.

In the drawing we have illustrated in perspective the wrench complete.

1 indicates the main handle of the wrench, provided at one end with a jaw 2, extending at right angles thereto and at a suitable distance from said jaw with spaced bearing-lugs 3, provided with a longitudinal series of bearing-apertures 4, designed to receive a pivot 5 in the form of a bolt passing through a bearing-lug 6, extending laterally from the movable member or handle 7 and also fitting between the lugs 3, said last-named handle being provided, like the member 1, with a right-angular jaw 8, designed to be urged toward the jaw 2 by an adjustment and clamping screw 9, passing through the member 1 and

bearing against the handle of the member 7, which extends substantially parallel to the main handle, any suitable means being provided for actuating the screw—as, for instance, a winged head 10. The jaws are provided upon their inner or contiguous faces with angular depressions or recesses 11 to facilitate the bite upon the object to be operated upon.

12 indicates a securing-nut on the bolt 5.

A suitable grip or crank-handle 13 is provided upon the handle of the member 1 for the purpose of permitting the device to be used as a crank in a manner well understood in the art, the said crank-handle extending at a right angle to the main handle in the opposite direction from the jaw 2.

It will be observed that the jaws may be firmly clamped upon the object to be rotated by the adjusting-screw, or if the throw of the movable jaw is insufficient or is too great the proper adjustment of the parts may be effected by employing any one of the series of bearing-apertures for the reception of the bolt 5, and when thus applied the operator by grasping the handle 13 may quickly screw or unscrew the object to be turned by employing the wrench as an ordinary crank. By removing the bolt 12 the two handles may be adjusted relatively to each other and in parallel planes for varying the primary distance between the two jaws.

What we claim is—

In a wrench, a fixed member embodying a handle provided at its opposite ends with a jaw and crank-handle, both extending at right angles to the member and in opposite directions, and spaced bearing-lugs on the fixed member provided with a series of bearing-apertures extending lengthwise of the handle, in combination with a movable member embodying a handle extending parallel to the main handle and provided with a jaw and with a bearing-lug fitting between the lugs on the main handle, a removable pivot passing through said lug and through one of the bearing-apertures and providing for the



relative adjustment of the handles in parallel  
planes for primarily changing the distance  
between the fixed and movable jaws and set-  
ting them the desired distance apart, and a  
5 screw for forcing the handles apart and hold-  
ing the jaws relatively fixed and in clamping  
engagement with the object between them,  
substantially as described.

In testimony whereof we affix our signa-  
tures in presence of two witnesses.

WATSON SMITH.  
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Witnesses:

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