

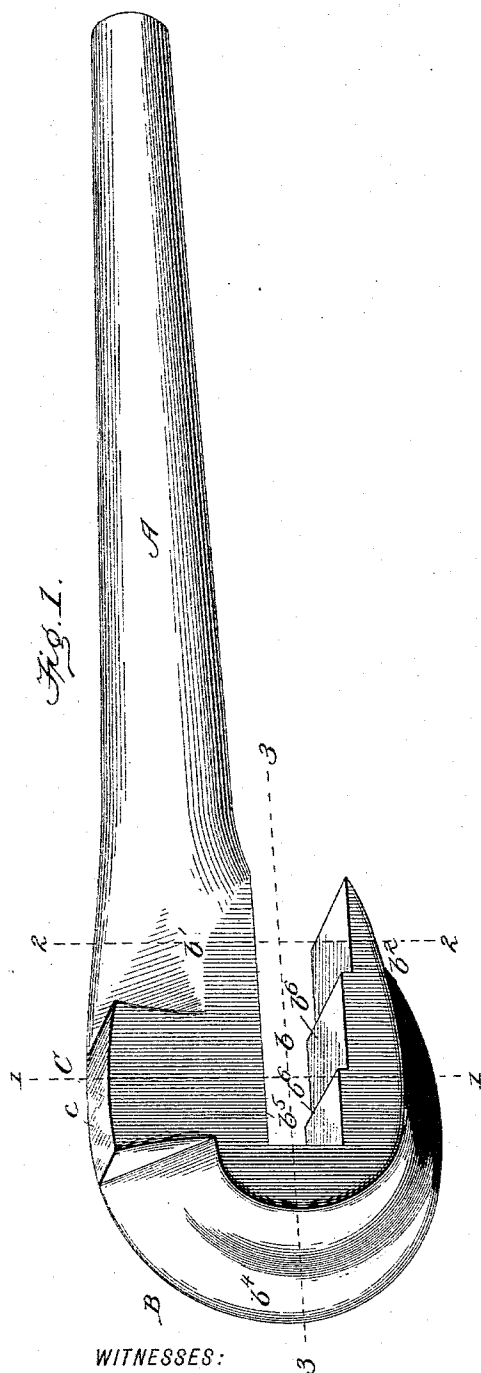
(No Model.)

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C. L. DUNHAM.  
SUCKER ROD WRENCH.

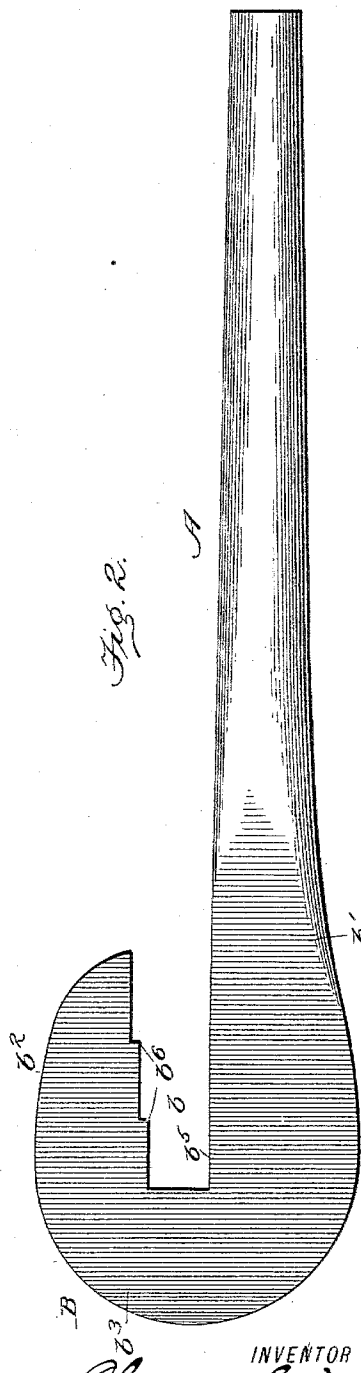
No. 563,848.

Patented July 14, 1896.



WITNESSES:

*Edwin L. Bradford*  
*Chas. W. Boyle,*



INVENTOR

*Charles L. Dunham*  
BY *J. R. Littell,*  
his ATTORNEY.

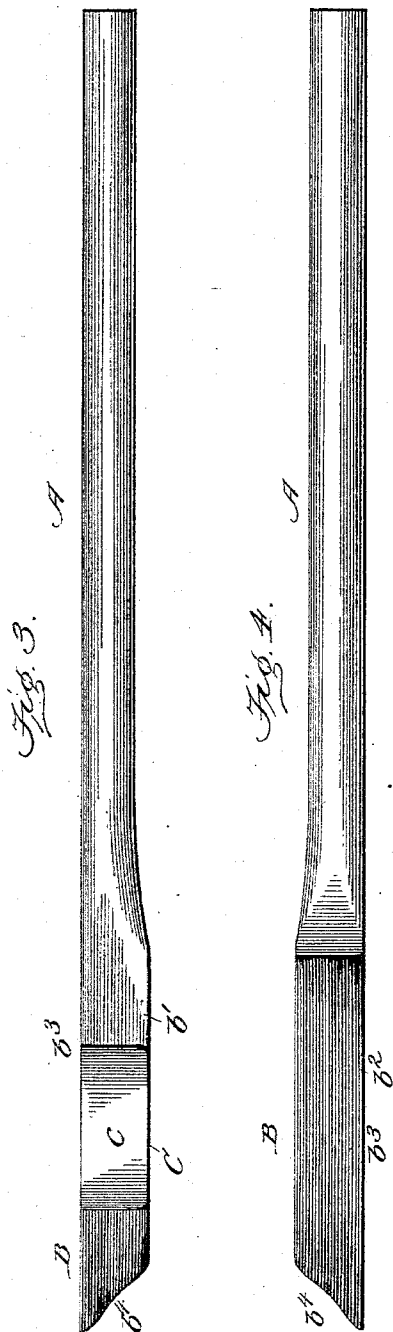
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C. L. DUNHAM.  
SUCKER ROD WRENCH.

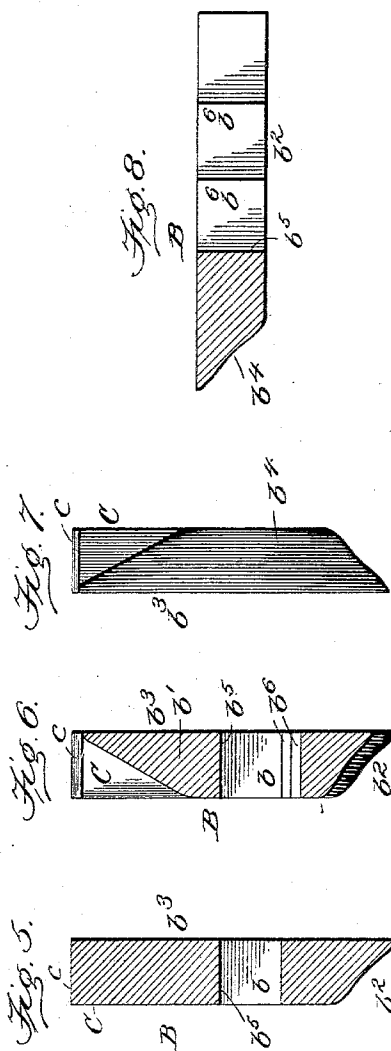
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his ATTORNEY.

# UNITED STATES PATENT OFFICE.

CHARLES L. DUNHAM, OF CENTRE VIEW, OHIO, ASSIGNOR OF ONE-HALF  
TO COCHRAN C. STOVER, OF SAME PLACE.

## SUCKER-ROD WRENCH.

SPECIFICATION forming part of Letters Patent No. 563,848, dated July 14, 1896.

Application filed October 2, 1895. Serial No. 564,356. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES L. DUNHAM, a citizen of the United States, residing at Centre View, in the county of Monroe and State of Ohio, have invented certain new and useful Improvements in Sucker-Rod Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to sucker-rod wrenches of that class which embody a handle or arm carrying an approximately U-shaped rigid end jaw forming a recess fitted or adapted to receive the sucker-rod.

In the practical use of sucker-rod wrenches of this character it has been customary to employ three separate wrenches of different sizes for the manipulation of the sucker-rod. The employment of separate wrenches of different sizes is very inconvenient and disadvantageous, resulting in loss of time and unnecessary handling. It has also been customary to use these wrenches for hammering, and in this way considerable damage is caused to the rigid head or jaw, and the latter is furthermore unadapted for effective and convenient use in the operation of hammering.

The object of my invention is to provide a simple and improved wrench of this class which will be adapted for effective and convenient use as a sucker-rod wrench, but which can be used for other purposes, which will present a combined construction and arrangement, enabling the thorough manipulation of the sucker-rod with but one wrench, which can be effectively and properly used for hammering, which will obviate the occasion for use or the employment of more than but one wrench, and which will furthermore possess advantages in point of simplicity, inexpensiveness, convenience, durability, ease of operation, and general efficiency.

In the drawings, Figure 1 is a perspective view of a sucker-rod wrench embodying my invention. Fig. 2 is a side view showing the rear face of the same. Fig. 3 is a top edge view. Fig. 4 is a bottom edge view. Fig. 5 is a detail transverse sectional view taken on the line 1 1, Fig. 1. Fig. 6 is a detail trans-

verse sectional view taken on the line 2 2, Fig. 1. Fig. 7 is a front end view. Fig. 8 is a detail transverse sectional view taken on a longitudinal plane on the line 3 3, Fig. 1.

My improved sucker-rod wrench is preferably constructed in one piece with all its parts integral.

Referring to the drawings, A designates the handle or arm of the wrench, which is preferably approximately straight and rounded, as shown. At the front end of the handle is provided an approximately U-shaped jaw or head B, having a middle recess *b* on a longitudinal plane with relation to the handle. One arm of the head B is formed by the front extension of the handle, as shown at *b'*, this front portion being preferably enlarged or spread with relation to the diameter of the handle for purposes of strength, and the other arm, *b''*, is formed by the outer arm of the U. The whole end head or jaw B is preferably enlarged in diameter and width, with relation to the handle, to secure strength and proper weight in the operation of hammering. The rear side or face *b'''* of the head B is preferably flat, as shown, and its front face is beveled at its outer edge toward the rear or back, as shown at *b''''*.

The walls *b<sup>5</sup>* of the recess *b* are preferably square or flat. Upon the inner face or edge of the outer arm *b''* of the head are provided a series of transverse steps or shoulders *b<sup>6</sup> b<sup>6</sup>*, forming recesses or spaces of different size or diameter between the jaws of the head, as shown. The transverse shoulders or steps *b<sup>6</sup>* are preferably two in number, so that three recesses of successively increasing size are formed in the head or jaw B, the smallest recess being at the inner end.

It will be understood that in the usual arrangement of sucker-rods a strap of adapted construction is used, and that there are three different sizes of squares or wrench-surfaces used in one string of rods. Therefore, by the provision of the different sized recesses in one wrench, as embodied in my invention and improvements, the string of rods can be operated upon or worked with the one wrench instead of using three wrenches with different sized recesses as now commonly employed. Greater convenience and economy is thus se-

cured by my improved sucker-rod wrench, which virtually embodies three or more ordinary sucker-rod wrenches in one device.

C designates an enlargement which is formed upon the beveled front face of the main arm of the head B, at the front end or extended portion  $b'$  of the handle. This enlargement C projects to the outer edge of the head, where it forms a broad surface  $c$ , corresponding to said edge. The enlargement may be spread outwardly to form the surface or butt-end  $c$ , as shown. This butt-end  $c$  is adapted to be effectively used as a hammer in the operation of the device.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains.

Ordinarily sucker-rod wrenches are formed with the rod or handle and an end hook forming a recess of one diameter, and the metal bar forming the wrench is of corresponding thickness throughout its length. In hammering, the narrow edge of this bar is used. In my invention and improvements, by having the series of steps or shoulders in the outer arm of the end hook portion, one wrench is adapted to effectively serve the purpose of three, as now ordinarily used. By having the hook-shaped head or end portion enlarged with relation to the rod or handle portion, greater strength and spread is secured at the point where it is most needed. By having the front face of the hook-head portion beveled, as shown and described, a reduction in the weight of the head portion is secured without materially affecting its strength, the head portion being enlarged or spread with relation to the rod or handle portion, and at the same time the laterally-projecting enlargement upon the beveled front face of the head portion provides an enlarged and thoroughly effective hammering-surface at the edge of the hook-head. By having the rear face flat throughout its length, at the head, as set forth, a more convenient adaptability of the wrench to the construction and arrangement of the different sizes of squares or wrench-surfaces, as ordinarily employed in a string of sucker-rods, is secured.

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

1. The herein-described improved sucker-rod wrench, consisting of the handle or arm carrying at its end the approximately U-shaped head or jaw forming the recess  $b$  extending on a longitudinal plane and provided in its outer wall or face with the series of

transverse steps or shoulders  $b^6$ , and the enlargement C projecting laterally and carried upon the head or jaw and forming the hammering-surface or butt-end  $c$  at the outer edge, substantially as and for the purpose set forth.

2. An improved wrench of the class described, consisting of the handle or arm carrying the end hook portion forming the approximately U-shaped head, said hook-head forming the recess  $b$  between the main arm of the wrench and the outer arm of the hook, the inner face of the outer arm of the hook being provided with the series of transverse steps or shoulders dividing said recess into a series of recesses of different diameters or sizes and the face of the hook-head being beveled toward the rear or back, substantially as set forth, and the enlargement projecting laterally from said beveled surface and extending to the edge thereof to form the broadened hammering-surface, substantially as and for the purpose set forth.

3. An improved wrench of the class described, consisting of the handle or arm carrying the end hook portion forming the approximately U-shaped head, said hook-head forming the recess between the main arm of the wrench and the outer arm of the hook and having its face beveled toward the rear or back, substantially as set forth, and the enlargement C projecting laterally from said beveled surface and extending to the edge thereof to form the broadened hammering edge or surface  $c$ , substantially as and for the purpose set forth.

4. An improved wrench of the class described, consisting of the handle or arm carrying the end hook portion forming the approximately U-shaped head, said hook-head forming the recess  $b$  between the main arm of the wrench and the outer arm or end portion of the hook, the inner face of the main arm of the hook-head being flat or straight and the inner face of the outer arm or end portion of the hook being provided with the series of transverse steps or shoulders, whereby the recess  $b$  in the hook-head is divided into a series of recesses of different diameters or sizes, substantially as and for the purpose set forth.

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

CHARLES L. DUNHAM.

Witnesses:

D. O. EDINGER,  
ROBERT LITTLE.