

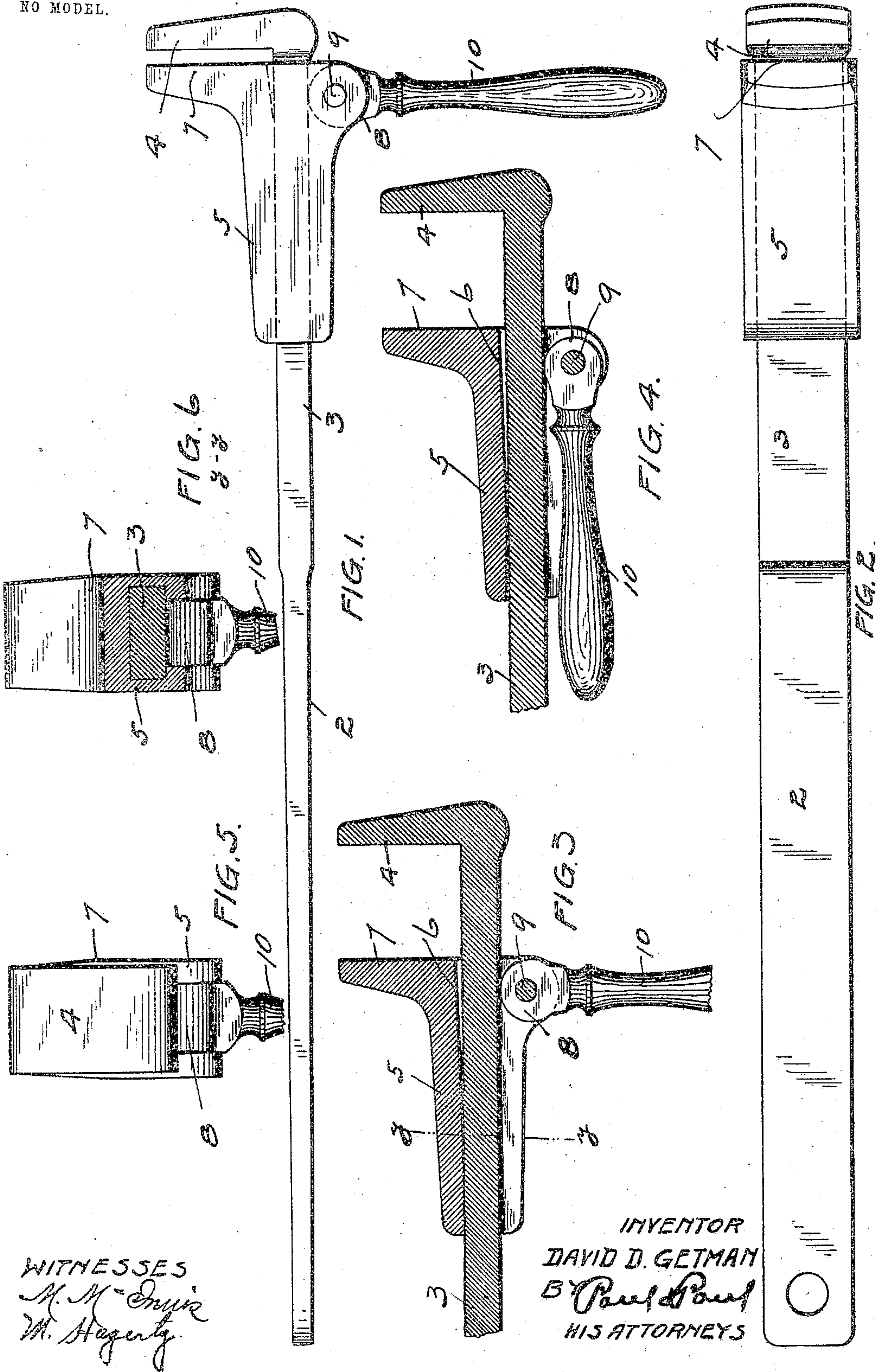
No. 764,576.

PATENTED JULY 12, 1904.

D. D. GETMAN.
WRENCH.

APPLICATION FILED MAR. 28, 1904.

NO MODEL.



UNITED STATES PATENT OFFICE.

DAVID D. GETMAN, OF BROWN VALLEY, MINNESOTA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 764,576, dated July 12, 1904.

Application filed March 28, 1904. Serial No. 200,375. (No model.)

To all whom it may concern.

Be it known that I, DAVID D. GETMAN, of Brown Valley, Traverse county, Minnesota, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

The object of my invention is to provide a strong and durable wrench and one that can be easily and quickly manipulated.

A further object is to provide a wrench that is adapted for use for loosening or tightening the nuts on all kinds of machinery and is particularly adapted for use in connection with a wagon-jack shown and described in a certain application for Letters Patent of the United States, filed by me on the 12th day of February, 1904, Serial No. 193,263.

The invention consists generally in various constructions and combinations, all as herein-after described, and particularly pointed out in the claim.

In the accompanying drawings, forming part of this specification, Figure 1 is a side view of a wrench embodying my invention. Fig. 2 is a plan view. Fig. 3 is a longitudinal section of one end of the wrench, showing the cam in its unlocked position. Fig. 4 is a similar view showing the cam in its locked position. Fig. 5 is an end view. Fig. 6 is a section on the line *y y* of Fig. 3.

In the accompanying drawings, 2 represents the wrench-shank, having at one end a slightly-enlarged part 3, terminating in an upwardly-turned end 4, that forms the fixed jaw of the wrench. This jaw is adapted to slip into the socket of the tilting block or head-piece shown in the wagon-jack application above referred to. The long handle part of the shank gives the required leverage for tilting the said block and raising the wagon-wheel. A block 5 is slidably mounted on the enlarged portion 3 of the shank and provided with a long convex bearing-surface 6, adapted to engage the surface of the shank, and a jaw 7 is mounted on

the inner end of said block, between which 45 and the fixed jaw 4 a nut or other article is clamped. The surface of the clamp on one side near the fixed jaw is preferably roughened (see Figs. 3 and 4) to provide a better gripping-surface for the block and prevent 50 danger of slipping.

An eccentric 8 is mounted on the pivot-pin 9, carried by the block 5 on the under side of the wrench-shank and adapted to engage the surface thereof and draw the movable jaw 55 firmly against the roughened surface of the shank. A lever 10 is provided on said eccentric in position to be conveniently grasped by the operator and pressed in toward the shank to cause the eccentric to bear thereon and 60 clamp the movable jaw. It requires only a slight movement of the lever 10 to lock or unlock the movable jaw, and it is therefore a very simple and expeditious operation to secure the wrench on a nut or loosen it there- 65 from. The lever 10 and the eccentric are preferably mounted on the inner end of the block opposite the jaw 7, and when the lever is operated to lock the jaw the block will swing slightly on said convex surface and al- 70 low the jaw to be drawn snugly against the nut or other article that is being clamped.

When the device is used in connection with a wagon-jack, it is customary to clamp the nut and remove it entirely from the axle, and 75 the nut remains firmly held between the jaws during the operation of oiling the axle and can then be easily and quickly replaced on the axle. The movement of the cam-lever will serve to rock the movable jaw slightly and 80 draw it firmly to its seat on the wrench-shank and against the nut, and as the movable jaw cannot slip on the shank when once locked there will be no danger of the nut becoming detached from the wrench and dropping to 85 the ground during the operation of oiling the axle.

This device while particularly adapted for

use with the wagon-jack is also a very convenient and serviceable tool wherever it is desired to loosen or tighten a nut.

I claim as my invention—

- 5 A wrench comprising a shank having a fixed jaw at one end, a movable jaw slidably mounted on said shank opposite said fixed jaw and having a convex bearing-surface upon one side of said shank, a cam-lever pivoted on said
10 movable jaw upon the other side of said shank

and arranged to engage the surface thereof and draw said convex surface into contact therewith and said movable jaw snugly against the article to be clamped.

In witness whereof I have hereunto set my hand this 21st day of March, 1904.

DAVID D. GETMAN.

In presence of—

RICHARD PAUL,
M. HAGERTY.