

E. G. HAMILTON.

WRENCH.

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953,611.

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Fig. 1.

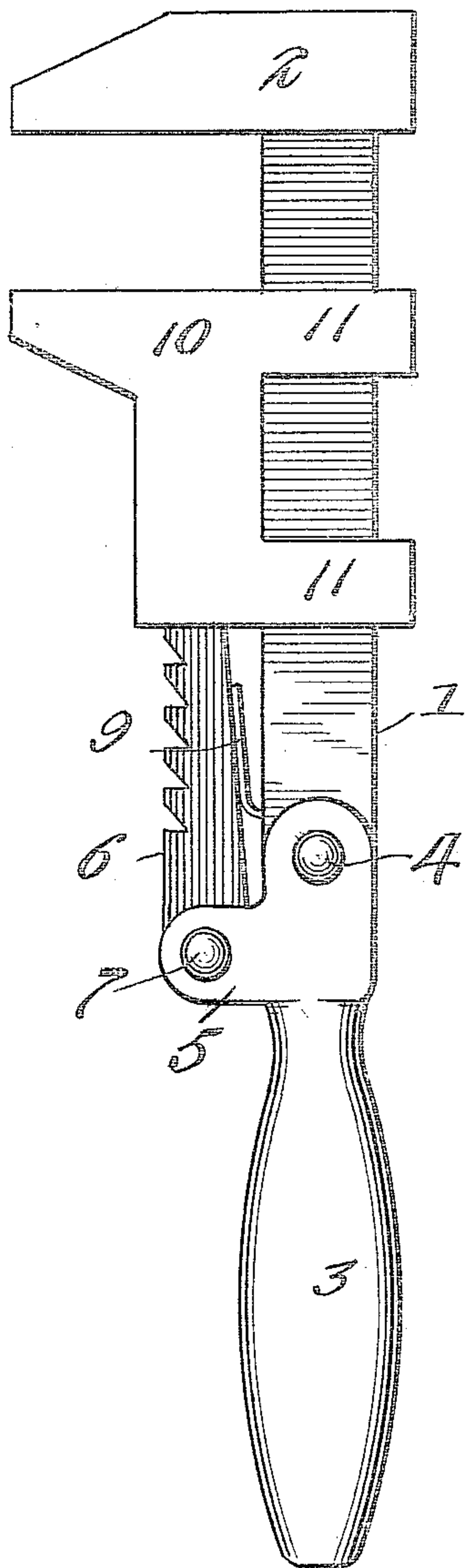
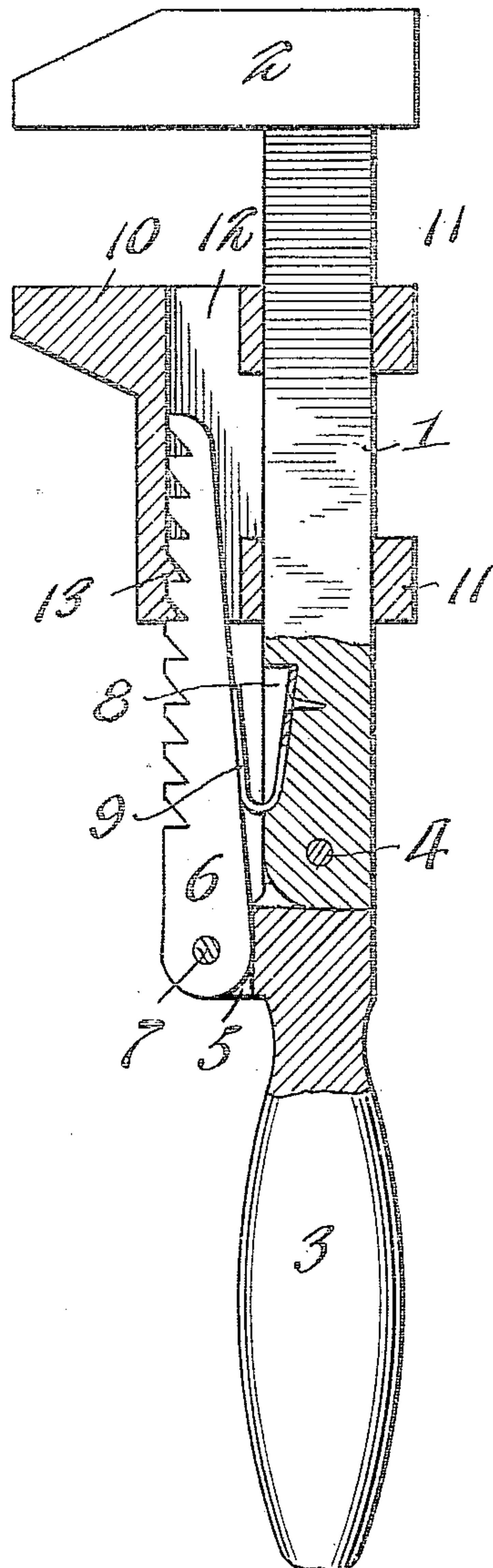


Fig. 2.



Witnesses

Hugh H. Ott
Geo. Garvin

Inventor

Elmer G. Hamilton

By *Victor J. Evans*

Attorney

UNITED STATES PATENT OFFICE.

ELMER G. HAMILTON, OF ROCKPORT, INDIANA.

WRENCH.

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To all whom it may concern:

Be it known that I, ELMER G. HAMILTON, a citizen of the United States, residing at Rockport, in the county of Spencer and State of Indiana, have invented new and useful Improvements in Wrenches, of which the following is a specification.

This invention is an improved wrench in which the sliding jaw on the stock is locked in an adjusted position by a ratchet pawl which is pivotally connected to the handle, the latter being pivotally connected to the stock so that the sliding jaw may be very readily and quickly adjusted and the handle and pawl exert leverage on the sliding jaw when the wrench is in use to cause the work to be firmly pressed between the fixed jaw and the sliding jaw, as hereinafter described and claimed, the object of the invention being to provide an improved wrench of this character which is extremely simple and cheap, is very strong and durable and may be adjusted with a minimum expenditure of time and effort.

In the accompanying drawings:—Figure 1 is a side elevation of a wrench constructed in accordance with my invention. Fig. 2 is partially an elevation and partially a longitudinal sectional view of the same.

The stock 1 of the wrench is provided at one end with the fixed jaw 2. To the other end of the stock is pivotally connected a handle 3 as at 4 and the handle is provided on one side near the inner end of the stock with a pair of laterally extending lugs 5 between which is pivoted the outer end of a ratchet pawl 6, the pivot of the pawl being indicated at 7. In one side of the stock is a recess 8 in which is secured one end of a U-shaped spring 9, the free end of the spring bearing against the inner side of the ratchet pawl and forcing the same outwardly from the stock, as will be understood. The movable jaw 10 is provided on one side with arms 11 having openings through which the stock extends so that the movable jaw is guided and retained on the stock. The movable

jaw is also provided with a longitudinal opening 12 of suitable width to receive and permit the movement of the ratchet pawl and in the outer side of the said opening and at the inner end of said movable jaw are ratchet teeth 13 for engagement by the teeth of the ratchet pawl under the action of the spring 9.

It will be understood that by pressing the ratchet pawl inwardly against the tension of the spring 9 it may be disengaged from the teeth of the movable jaw so that the latter may be instantly adjusted as may be required to cause it to engage the work and the spring immediately thereafter reengages the ratchet pawl with the teeth of the movable jaw so as to lock the latter.

In using the wrench, the handle 3 is turned toward that side of the stock on which the ratchet pawl is disposed and hence it exerts leverage on the ratchet pawl which causes the latter to more firmly engage the movable jaw with the work and hence the work is prevented from slipping, the engagement of the jaws with the work being commensurate with the force exerted on the wrench and the leverage of the handle and ratchet pawl on the movable jaw.

What is claimed is:—

The herein described wrench comprising a stock having a fixed jaw at one end, a handle pivoted to the inner end of the stock and having laterally extending lugs, a ratchet pawl pivotally mounted at its inner end between said lugs, the movable jaw on the stock having a longitudinal opening to receive the ratchet pawl and teeth for engagement with those of the pawl and a spring between the stock and the ratchet pawl normally holding the latter in engaged position.

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

ELMER G. HAMILTON.

Witnesses:

JOHN H. JENNINGS,
S. H. JENNINGS.