

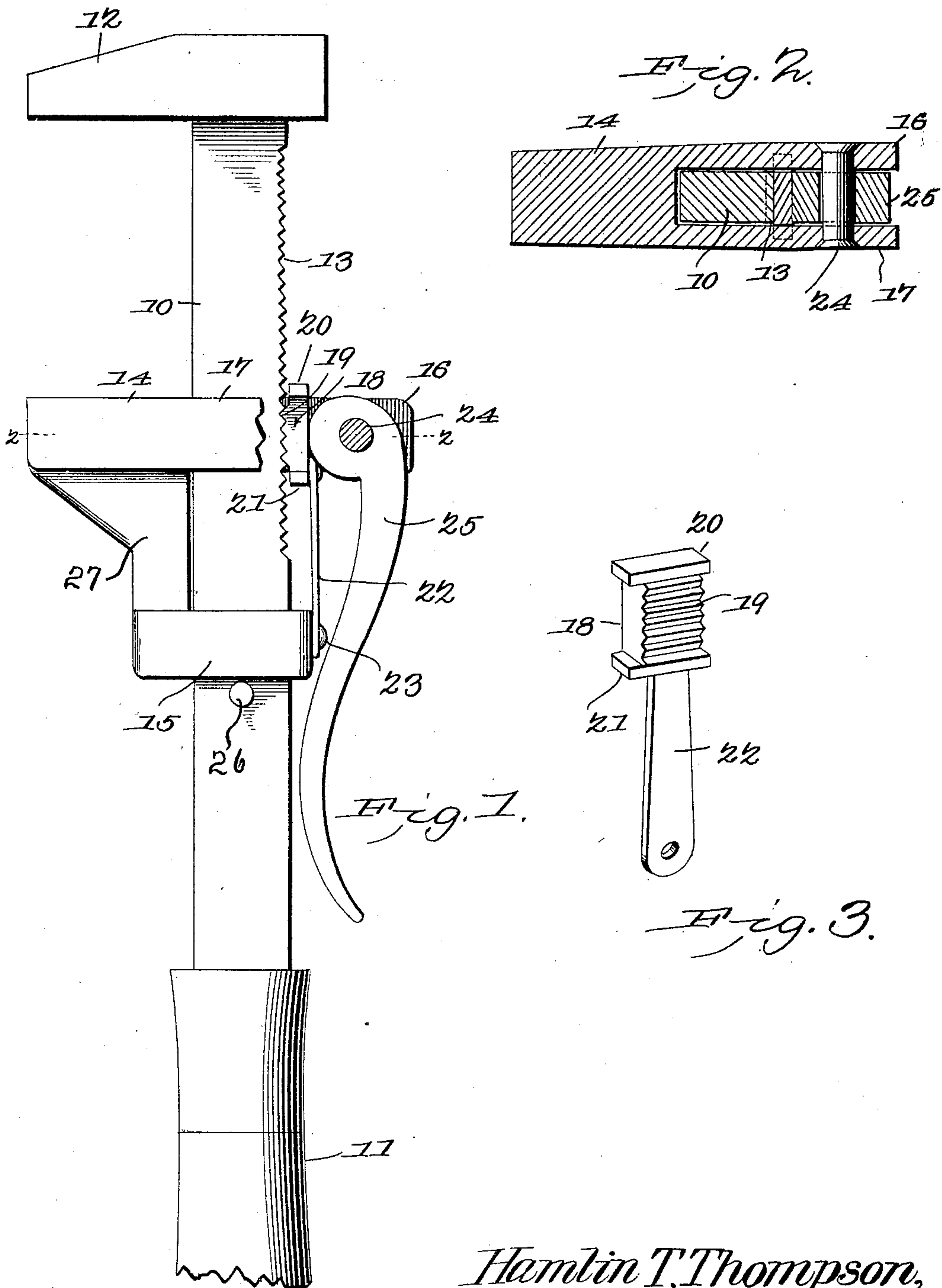
No. 808,954.

PATENTED JAN. 2, 1906.

H. T. THOMPSON.

WRENCH.

APPLICATION FILED SEPT. 20, 1904.



Witnesses

E. J. Stewart
C. H. Woodward

Hamlin T. Thompson,
Inventor.

by *C. A. Snow & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

HAMLIN TAYLOR THOMPSON, OF FLOVILLA, GEORGIA, ASSIGNOR OF
ONE-HALF TO WILLIAM D. GIBSON, OF FAYETTEVILLE, GEORGIA.

WRENCH.

No. 808,954.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed September 20, 1904. Serial No. 225,261.

To all whom it may concern:

Be it known that I, HAMLIN TAYLOR THOMPSON, a citizen of the United States, residing at Flovilla, in the county of Butts and State of Georgia, have invented a new and useful Wrench, of which the following is a specification.

This invention relates to wrenches of the class known as "quick-action," and has for its object to simplify and improve the construction and increase the efficiency of implements of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as herein-after fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of the advantages of the invention within the scope of the appended claim.

In the drawings thus employed, Figure 1 is a side elevation with a portion broken away to expose the interior construction. Fig. 2 is a transverse section on the line 2 2 of Fig. 1. Fig. 3 is a perspective view of the locking-block and its resilient supporting-arm detached.

The improved implement comprises a stock 10, having at one end a handle 11 and with a stationary jaw 12 extending laterally from the other end and with spaced serrations or teeth 13 upon one side of the stock. The movable jaw 14 is formed with spaced sides 16 17 extending upon opposite sides of the stock 10 and projecting rearwardly of the same, with a cam 25 pivoted at 24 between the projecting portions. Slidably disposed between the sides 16 17 is a block 18, having teeth 19 upon one face for engaging the teeth 13 of the stock and with guide-ribs 20 21 at the ends bearing over and beneath the side portions.

The cam 25 when in its active position com-

presses the block 18 into engagement with the stock 10, and thus locks the jaw 14 at any desired point upon the stock.

Depending from the jaw 14 is a brace-arm 27, upon the lower end of which a band 15 is formed and extending around the stock 10, the band being thus spaced for a considerable distance from the jaw 14.

The jaw 14, its spaced sides 16 17, the brace-arm 27, and the band 15 are preferably integral and cast from a single piece of metal, preferably steel.

A spring 22 is connected at one end to the block 18 and at the other end, at 23, to the band 15 and operating to maintain the block 18 free from the teeth 13 of the stock 10 when the cam is in withdrawn position. By this arrangement the block 18 and its operating-cam 25 are disposed in longitudinal alinement with the movable jaw 14 and the band 15 disposed for a considerable distance below the jaw, so that the pressure applied to the jaw 14 when using the wrench causes the block 18 to be drawn forcibly against the rear or toothed side of the stock, and the greater the pressure the greater the grip, as will be obvious.

The brace 27 and band 15 by their position effectually resist any tendency to lateral movement or twisting of the movable jaw and also support the movable jaw and relieve it largely from the strains to which it would otherwise be subjected. Thus the strength and durability of the implement are materially increased without increase in weight or expense of construction.

By this simple arrangement it will be obvious that when the lever-cam is thrown outward the spring-arm 22 will immediately move the locking-block outward and release the movable jaw and permit the latter to be quickly adjusted to any desired extent, and when the adjustment is completed a simple movement of the cam-lever will firmly lock the movable jaw in its new position.

The device can be constructed in any desired size and of any suitable material.

A stop-pin 26 will be inserted in the stock 10 to limit the movement of the jaw 14

Having thus described the invention, what is claimed is—

A wrench consisting of a stock having spaced teeth in the rear face and with a handle at one end and a laterally-extending jaw

at the other end, a movable jaw having spaced
sides extending rearwardly of the same and
slidably disposed upon opposite sides of the
stock and projecting rearwardly of the same,
5 a brace member depending from said mov-
able jaw, a band extending from said brace
member and inclosing said stock, a block
slidably disposed between the spaced sides of
said movable jaw and with guide-ribs bearing
10 above and below said sides, said block hav-
ing spaced teeth for engaging the teeth of
said stock, a cam pivoted between the pro-

jecting portions of the spaced sides of said
movable jaw, and a spring connected to said
block and operating to maintain the same 15
yieldably out of engagement with said stock
when released by the withdrawal of the cam.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature
in the presence of two witnesses.

HAMLIN TAYLOR THOMPSON.

Witnesses:

J. L. HERRING,
J. H. HAM.