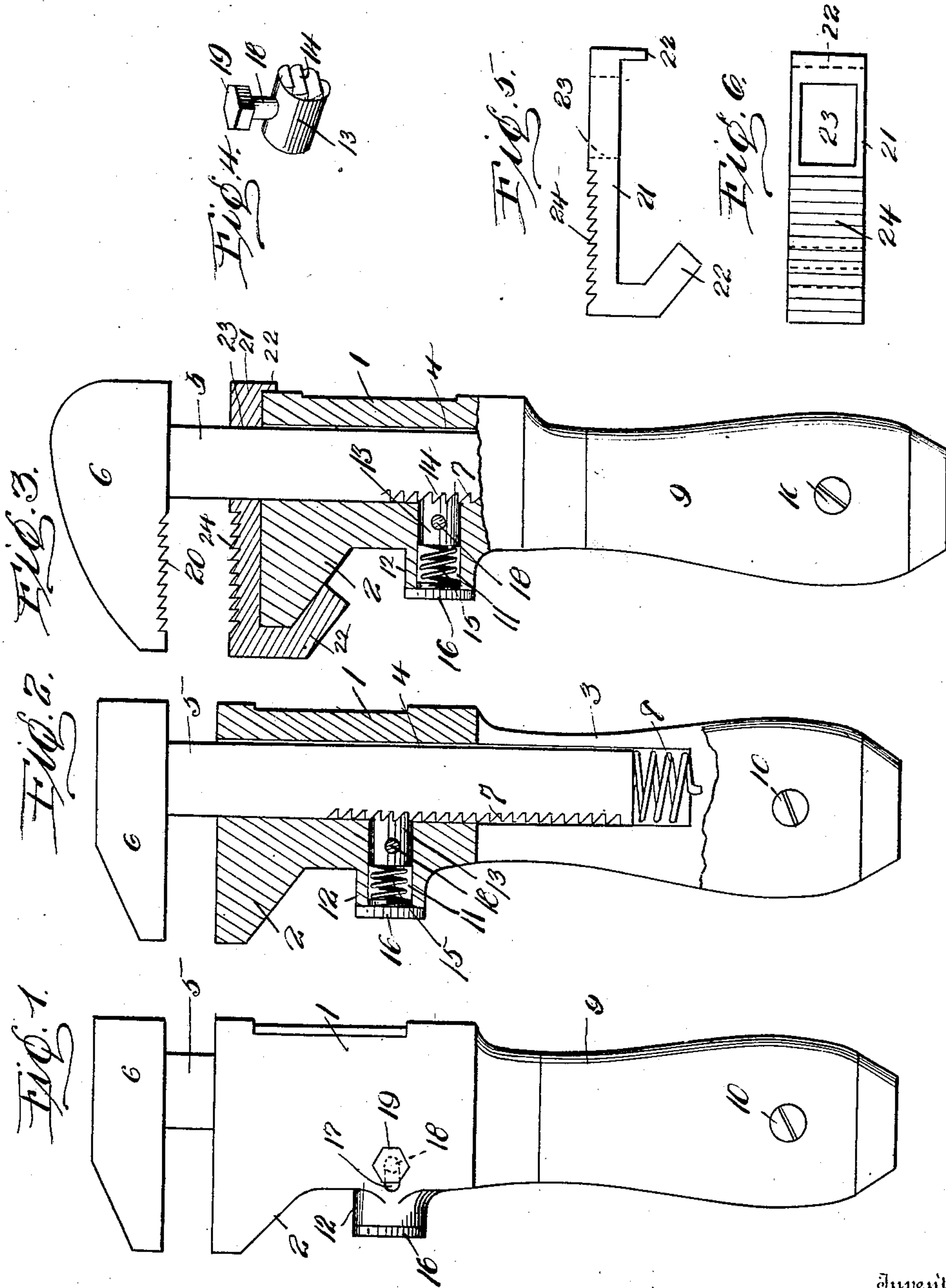


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WRENCH.
APPLICATION FILED FEB. 26, 1908.

903,667.

Patented Nov. 10, 1908.



Witnesses

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WRENCH.

No. 903,667.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed February 26, 1908. Serial No. 417,924.

To all whom it may concern:

Be it known that I, HUBERT CAPELLMANN, a citizen of the United States of America, residing at Tarentum, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a wrench, and the objects of my invention are, first, to provide a simple, durable and inexpensive wrench; second, to dispense with the use of a screw and nut as the adjusting medium of a wrench; third, to provide a wrench that can be easily and quickly adjusted; fourth, to provide a novel wrench attachment which will permit of the wrench being used for rotating pipes and gripping curved surfaces. I attain these objects by a wrench having an adjustable shank and jaw, the shank being housed within the body of the wrench and normally retained therein by a spring pressed locking block.

The detailed construction entering into my invention will be presently described and then specifically pointed out in the appended claim:

Referring to the drawings forming a part of this specification, Figure 1 is an elevation of a wrench constructed in accordance with my invention. Fig. 2 is a vertical sectional view of a wrench, partly in elevation. Fig. 3 is a similar view of my wrench, designed as a pipe wrench. Fig. 4 is a perspective view of a gripping block. Fig. 5 is an elevation of the wrench attachment. Fig. 6 is a plan of the same.

In the accompanying drawings, 1 designates the body of the wrench having a gripping jaw 2, and a depending skeleton handle support 3. The body 1 is formed with an opening 4, having a movable shank 5, said shank having a fixed gripping jaw 6. The shank 5 is provided upon one edge with teeth 7, and is resiliently supported by a coil spring 8 located in the handle support 3, this spring having a tendency to force the shank 5 upwardly in the wrench body 1. The handle support 3 has its sides provided with handles 9, for shielding the spring 8 and housing the lower end of the shank 5. The handles 9 can be secured to the support 3 by screws 10 or similar fastening means.

The body 1 is formed with a cylindrical recess 11 which extends into an enlargement

12, carried by the edge of a wrench body. This recess 11 is formed at right angles to the opening 4 and slidably mounted in said recess is a cylindrical gripping block 13 having teeth 14 adapted to mesh with the teeth 7 of the shank 5. The block 13 is normally held in engagement with the shank 5 by a coil spring 15, said spring being retained in the recess 11 by a threaded cap 16.

The body of the wrench is slotted upon one side, as at 17, this slot communicating with the recess 11. The block 13 is provided with a pin 18 extending through said slot, said pin carrying a head 19, whereby the block can be manually moved to release the shank 5. It will be observed that immediately upon the block 13 releasing the shank 5, said shank will be forced upwardly and the jaw 6 thereof opened with respect to the jaw 2. It is only necessary to push downwardly upon the jaw 6 to force the shank 5 into the body of the wrench, where it will be retained by the block 13.

In Fig. 3 of the drawings, I have illustrated the jaw 6 as being reinforced and provided with teeth 20. Upon the body of the wrench and jaw 2 is adapted to fit an attachment, this attachment comprising a plate 21, having clamping straps 22. The plate 21 is provided with a shank opening 23, and with teeth 24 adapted to cooperate with the teeth 20 in gripping a pipe or rounded surface.

It will of course be understood that the shank 5 is removed from the body of the wrench, when the attachment is placed in engagement therewith.

It is thought that the construction of my wrench will be fully understood, and I desire the right to make such changes in the same as are permissible by the appended claims.

Having now described my invention what I claim as new, is;—

A wrench comprising a body portion embodying a jaw, a handle and further having an opening and a recess extending at right angles to the opening, a plate for closing said recess, a spring supported toothed shank arranged in said opening, a jaw carried by said shank, a cylindrical member arranged in said recess and having one face thereof provided with a series of teeth adapted to engage in the teeth of the shank, a pin extending laterally from said member and

projecting from said body and having a
headed outer terminus, said body provided
with a transverse slot to permit of move-
ment of the pin, a spring arranged in said
5 recess and interposed between said plate and
said member, said spring tending constantly
to maintain the toothed end of said member
in engagement with the teeth of the shank,
that jaw carried by the shank having a ser-
10 rated lower face and an auxiliary jaw mem-
ber fitting on said body jaw, said auxiliary
jaw member having at one end a depending

portion engaging one side of said body and
at its other end an angular depending por-
tion straddling the other side of the body, 15
the upper face of said jaw member being
serrated and provided with an opening for
the passage of the shank.

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

HUBERT CAPELLMANN.

Witnesses:

MAX H. SROLOVITZ,
K. H. BUTLER.