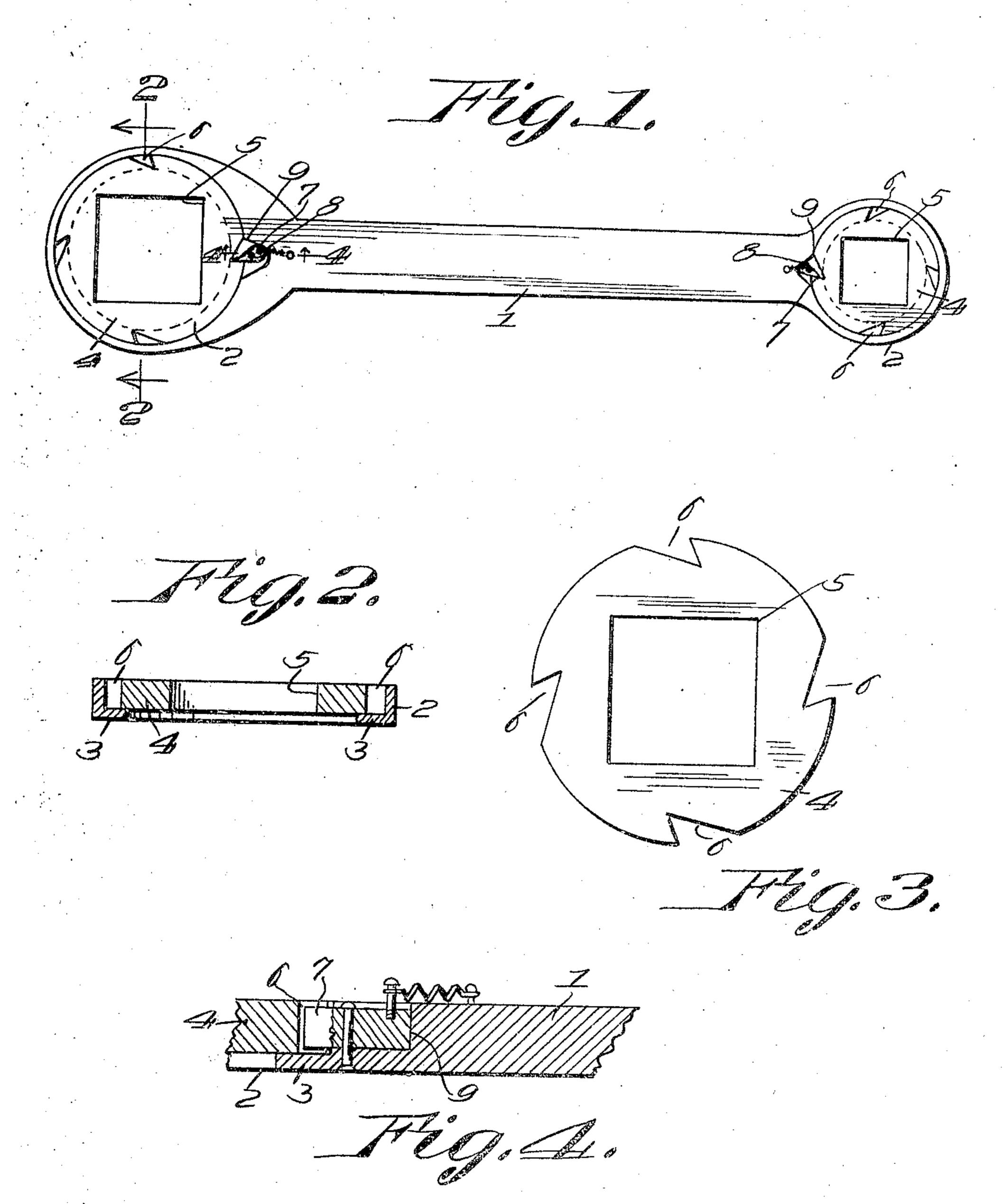
H. E. H. SCHMIEDING.
WRENCH.
FILED JULY 10, 1918.



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Soy

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UNITED STATES PATENT OFFICE.

HERMANN E. H. SCHMIEDING, OF HANKINSON, NORTH DAKOTA.

WRENCH.

Application filed July 10, 1918. Serial No. 244,262.

To all whom it may concern:

5 county of Richland and State of North Da- 9 formed in the handle adjacent the inner kota, have invented new and useful Improve-periphery of the eye. ments in Wrenches, of which the following In the use of the device, the nut engagis a specification.

10 to provide a wrench particularly designed Thereafter the handle is made to engage for removing nuts and similar devices, the this member by placing the eye 2 of the 65 wrench possessing the advantages of a socket former in surrounding relation to the nut wrench and having operating means that engaging member, the pawl 7 being held render it unnecessary to remove the wrench back by the finger to prevent its impinging 15 from the bolt when performing the loosen- upon the side of the nut engaging member. ing or tightening up operations on the nut. The handle having thus engaged with the 70.

20 tion, durable and efficient in operation and gaging member and when registration with inexpensive to manufacture.

25 suggest certain desirable changes or altera- tinuous yet rotary movement to the nut entions and the right is claimed to make any gaging member. which do not deviate from the scope of the

subjoined claim.

Figure 1.

In the accompanying drawings:

Figure 1 is a plan view showing the improved wrench.

Figure 2 is a section on the line 2-2 of Figure 1.

Figure 3 is a plan view of the nut engag-

35 ing member.

a handle member 1 formed with an eye 2 tion. 40 at either end, the eyes, of course, being of From the foregoing description and the of each there is formed an annular flange tion unnecessary. 45 3 against which a nut engaging member 4 may seat. The eye itself is of circular forma- is claimed as new and useful is. the latter is formed with an opening 5, 50 ing upon the character of the nut which with an inwardly turned annular flange sur-

notches are engaged by a spring held pawl 55 Be it known that I. HERMANN E. H. 7, which is pivotally mounted on a pin 8, Schmieding, a citizen of the United States the latter being suitably mounted on the hanof America, residing at Hankinson, in the dle 1 so that the pawl may stand in a recess

ing member 4 is placed upon the nut of As its principal object the invention seeks bolt upon which it is desired to operate. A further object of the invention resides nut engaging member, the pressure on the in the provision of a device of this charac- pawl is released when the pawl is permitted ter which is extremely simple in construc- to bear upon the periphery of the nut enany one of the recesses or notches 6 to en- 75 To the specific form in which it is shown gage in said recesses. By this means it is and described the invention is not to be possible to impart oscillating movements to restricted. Actual reduction to practice may the handle and to impart through it a con-

It will be observed that the device is adapted for screwing or unscrewing, it being only necessary to reverse the nut engaging member when applying same to the nut, when the device will work in the re- 85 verse direction, because the notches 6 will then be reversely disposed and the pawl 8 which is capable of performing its function no matter to which side of its pivot it is Figure 4 is a section on the line 4—4 of disposed will then operate as a ratchet thus 90 causing the nut engaging member to be Referring to the drawings, there is shown moved continuously in the said reverse direc-

different sizes, so that the range of use of accompanying drawings it is believed that 95 the device may be increased. The eyes 2 a clear enough understanding of the invenare of circular formation and on one side tion will be had to render further descrip-

The invention having been described what

tion as is the nut engaging member 4, but A tool of the kind described comprising a handle member having an eye formed at either square or hexagonal in plan, depend- one end, the handle member being formed it is intended it should engage. The nut rounding the eye, a nut or bolt engaging 105 engaging member loosely engages in the eye member having a nut engaging eye formed 2 and on its periphery there are formed the therein, the said nut engaging member benotches 6 spaced uniformly apart. These ing removably mounted in the eye of the

handle and seated against the flange, the rection, the pawl being swingable to either 10 said nut engaging member having notches side of its pivot when the nut engaging memformed in its periphery, and a pawl prober is detached from the handle, whereby vided with a permanently attached actuat- the nut engaging member may be placed ing spring and pivotally mounted in a re- in the handle for intermittent rotary movecess formed in the handle, the nose of said ment by the handle in either direction. pawl being engageable with the notches on said nut engaging member to preclude movement of the said member except in one di-

In testimony whereof I affix my signature.

HERMANN E. H. SCHMIEDING.