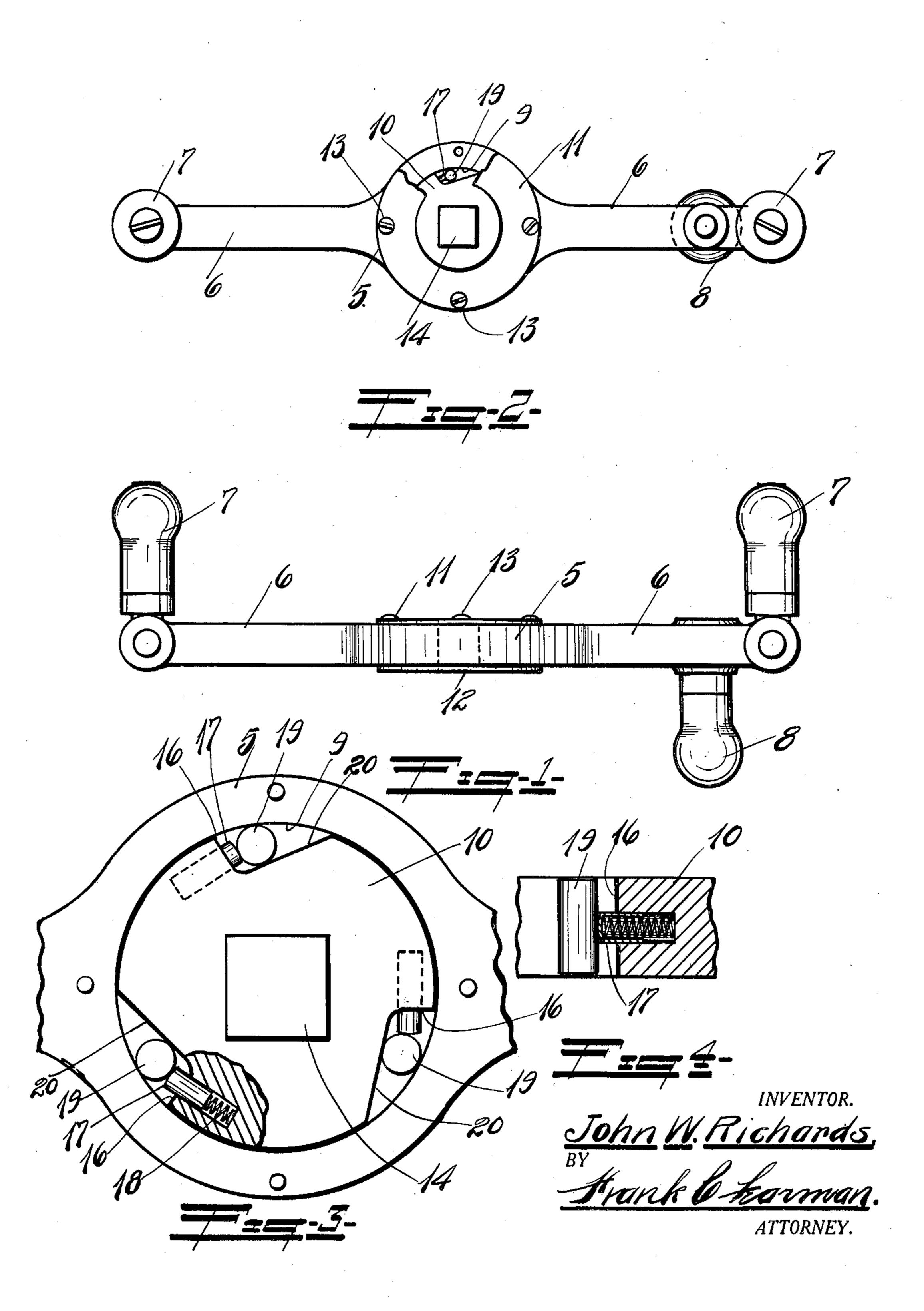
J. W. RICHARDS

HYDRANT WRENCH

Filed April 8, 1931



UNITED STATES PATENT OFFICE

JOHN W. RICHARDS, OF ESSEXVILLE, MICHIGAN, ASSIGNOR OF ONE-HALF TO NORRIS R. MACKLEM, OF BAY CITY, MICHIGAN

HYDRANT WRENCH

Application filed April 8, 1931. Serial No. 528,473.

The prime object of the invention is to of one of said extensions, and for a purpose provide a hydrant wrench so constructed to be presently described. that the wrench will function only when A centrally disposed opening 9 is provided

wrench of sturdy, rugged, and practical in the usual manner. construction, which is dependable and posi- The ratchet hub 10 is formed as clearly be opened and when a fire occurs.

erating balanced wrench mechanism, the valve stem. 15 operation of which is similar to an over

running clutch.

opening a hydrant, the lower handle being

reference numerals indicate like parts

throughout the several views thereof.

In the drawing.

wrench.

Fig. 2 is a top plan view, a plate being broken away to show the working parts.

locking members.

Fig. 4 is an enlarged fragmentary sectional view of the hub showing the resilient

pin adjuster.

drawing, the numeral 5 indicates a flat head easy. having extensions 6 formed integral therewith, and to which the handles 7 are se- 14 can be of any desired shape, and that the cured in any approved manner, a similar hub can be interchangeable and that if so

turned in proper direction, thereby eliminat- in the head as shown, and a ratchet hub 5 ing the possibility of stripping and damag-member 10 is mounted therein, plates 11 and 55 ing the threads of the operating valve stem. 12 respectively, serving to hold said hub in Another object is to provide a hydrant position, said plates being held by screws 13

10 tive in its operation, and which will not shown in Fig. 3 of the drawing, and is pro- 60 stick at a critical time when hydrants must vided with a centrally disposed square opening 14, adapted to accommodate a hydrant Another object is to provide a smooth op- cap, or the head of the hydrant operating

Spaced apart notches are provided in the 65 outer rim of the ratchet hub, the wall 16 of A further object is to provide a wrench each notch being bored to receive a hollow having a special handle arrangement, in-cylindrical shell 17, the outer head of which cluding spaced apart handles, provided on is closed, a coil spring 18 being mounted in 20 opposite sides of the head to permit a pull said bore and shell for normally urging said 70 on one and a push on the other, so that the shell outwardly, and into engagement with operator may readily brace himself when the vertically disposed ratchet pin 19 which is mounted in each notch, the wall 20 leadprovided so that when the wrench is re- ing outwardly and forming together with the versed, this handle will be in upright posi- head, a gradually narrowing passage or 75 tion so that the wrench may be spun. chamber so that as the wrench is rotated The above and other objects will appear the pins 19 are forced outwardly from the as the specification progresses, reference be- walls 16 and are wedged between the wall ing had to the accompanying drawing in 20 and the head 10, thereby locking the which I have shown the preferred embodi- ratchet hub and head together, rotation of 80 ment of mv invention, and in which like the wrench in the opposite direction tending to roll the pin out of driving engagement, so that the head may rotate around the hub.

It will therefore be obvious that when the Fig. 1 is an edge view of my hydrant wrench is in position shown in Fig. 3 of the 85 drawing, that it will grip and lock when rotated in a counter clockwise direction only, and by turning the wrench over so that the Fig. 3 is an enlarged fragmentary part handle 8 is upright, the pins are again ensectional plan view illustrating the hub and gaged so that a valve stem cap can be ro90 tated in a clockwise direction for tightening, and inasmuch as this operation is comparatively easy the single handle is conducive to permit the spinning or rapid rotation of Referring now more particularly to the the wrench so that the operation is rapid and 95

It will also be understood that the opening handle 8 being secured to the opposite side desired one handle only can be utilized.

From the foregoing description it will be obvious that I have perfected a very simple, practical, and convenient hydrant wrench which can be readily manufactured and assembled, and which can be readily operated.

What I claim is:—

A hydrant wrench comprising a head provided with oppositely disposed extensions and having a centrally disposed opening therein, vertically disposed handles on the ends of said extensions, a downwardly projecting handle on the opposite side of one of said extensions, a hub removably mounted in said opening, spaced apart notches in the rim of the hub and forming a gradually narrowing chamber with the rim of the opening, a pin mounted in each opening, and resilient means normally urging said pins towards the narrow end of the chamber for locking the head and hub together when the wrench is rotated in a predetermined direction.

In testimony whereof I hereunto affix my signature.

JOHN W. RICHARDS.

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