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F. RUESCH WRENCH

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UNITED STATES PATENT OFFICE. FREDERICK RUESCH, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR TO HOE CORPORA-

TION, OF POUGHKEEPSIE, NEW YORK, A CORPORATION OF NEW YORK.

WRENCH.

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To all whom it may concern: tially open position and prevent contact and Be it known that I, FREDERICK RUESCH, a wear on the teeth, there is provided on one

Poughkeepsie, county of Dutchess, and State a pair, as 16, a raised portion or stop 17. useful Improvements in Wrenches, fully de- tact with the edges of the links 15 at or near scribed and represented in the following the pivotal points of the latter before the specification and the accompanying draw- jaws 10, 13 meet, so that in the inoperative ings, forming a part of the same.

10 wrenches.

provide an improved wrench of the general by the links 15, 16. type shown in United States Letters Patent It will be obvious from the foregoing that curately positioning the wrench jaws with object and apply slight pressure on the hanrespect to each other in their inoperative po- dle 12, which will force the jaws apart placed in engagement with an object such as wrench will automatically adjust itself in poa nut or pipe located in a confined space, and sition on such object. The provision of stops

citizen of the United States, residing at of the links, and preferably on each link of 5 of New York, have invented certain new and Such stops should be of such size as to con- 60 position of the parts the jaws will remain This invention relates to improvements in slightly open, as shown in Fig. 3. The jaws 65 are normally held in this position by a spring It is the aim of the present invention to 18 having its ends secured to pins 19 carried

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15 No. 1,407,578, dated February 21, 1922. when the wrench is to be applied to an ob- 70 Briefly stated, the improvement consists in ject to be gripped, it is only necessary to lay providing efficient and durable means for ac- the projecting end of the jaw 13 against such 20 sition, so that they may be easily and quickly against the pull of the spring, when the 75 wear by contact of the jaw teeth be pre- on the links not only simplifies the manufacture of the device as against a stop formed With the above objects in view, the inven- on one or the other of the wrench jaws, and so tion will now be described in detail in con- thereby reduces cost of production, but also provides a stop which is not subject to breaking off, as a stop formed on the wrench jaws and the novel features thereof will then be might, reduces shock and strain on the links 30 specifically pointed out in the claims. and, should the stops become worn, makes re- 85 placement of the part carrying the stop a Figure 1 is a side elevation of the im- simple and inexpensive matter, while effiposition. It will be understood that the invention 90 in the direction of the arrow 2, and ______ is not to be confined to the form or location Figure 3 is a view similar to Fig. 1, but on either link of the stop shown, or to the showing the wrench jaws held in place by number of such stops employed, but that changes in these respects may be made while still retaining the invention defined by the 95

- vented.
- 25nection with the accompanying drawings showing the invention in a preferred form,
 - In the drawings-
 - proved wrench in operative position on a ciently holding the wrench jaws in proper pipe;
- Figure 2 is an edge view thereof, looking 35

the stop.

Referring now to the drawings, the nu-40meral 10 indicates the stationary or rigid claims. jaw of the wrench, which is provided with What is claimed is: serrations 11 upon its inner face at the outer 1. A wrench comprising a fixed jaw, a end thereof. This jaw 10 is also provided at movable jaw, links pivotally connecting said 45 its opposite end with a shank or handle 12. jaws, a spring co-operating with said links 100 The numeral 13 indicates the swinging or and normally tending to force the jaws tomovable jaw, which is also provided with gether, and a stop carried by one of said serrations 14 upon its inner face. Links 15, links arranged to contact with another of 16, arranged in pairs and pivoted to the side said links to stop and hold said wrench jaws 50 faces of the jaws 10, 13, secure the jaws mov- apart in inoperative position. ably together, the pivotal points of the links 2. A wrench comprising a fixed jaw, a on the stationary jaw 10 being arranged movable jaw, links arranged in pairs and closer together than the pivotal points of pivotally connected with the side faces of the such links on the movable jaw 13. To stop wrench jaws, a spring co-operating with said

55 the closing of the wrench in the desired par- links and normally tending to force the 110

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wrench jaws together, and stops carried by each link of one pair arranged to contact with each link of the other pair to stop and hold said wrench jaws apart in inoperative 5 position.
3. A wrench having jaws 10, 13, links 15, 16 connecting said jaws, a spring tending to close the jaws, and said links being formed to abut on their edges in the closing of the jaws.
10 jaws to prevent the full closing of the jaws.

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