Sept. 8, 1925

1,552,746

W. H. KIZER

WRIST PIN AND WHEEL CRANK

Filed March 22, 1923

Fig. 1.

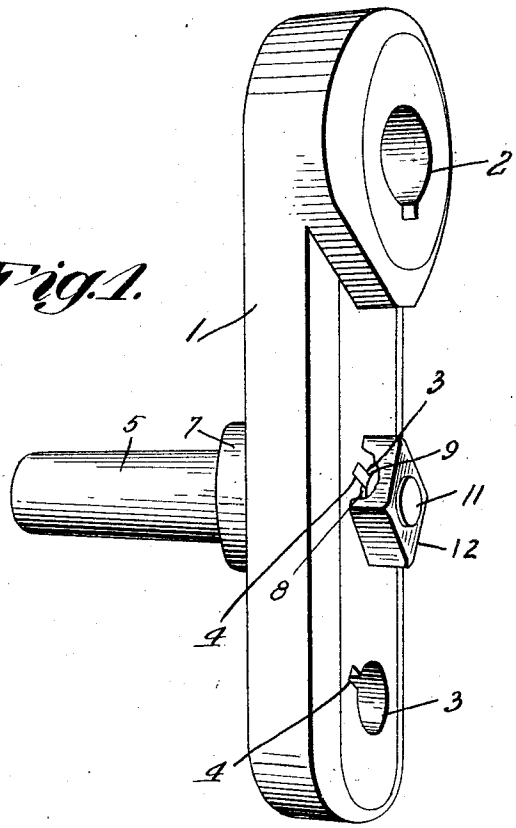




Fig. 3.

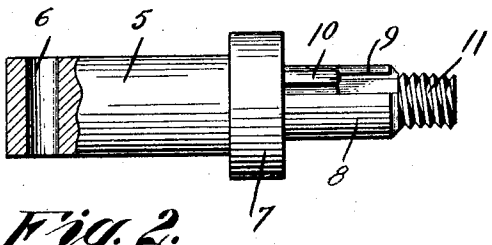


Fig. 2.

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UNITED STATES PATENT OFFICE.

WILLIAM H. KIZER, OF BEGGS, OKLAHOMA.

WRIST PIN AND WHEEL CRANK.

Application filed March 22, 1923. Serial No. 626,851.

To all whom it may concern:

Be it known that I, WILLIAM H. KIZER, a citizen of the United States, residing at Beggs, in the county of Okmulgee and State of Oklahoma, have invented a new and useful Wrist Pin and Wheel Crank, of which the following is a specification.

By way of explanation it may be stated that considerable difficulty has been experienced heretofore in the way of retaining a wrist pin on the crank arm of drilling and pumping machines of the sort used in connection with the sinking of oil wells, and the present invention aims to provide novel means whereby the wrist pin may be held in place through the instrumentality of a key, novel means being supplied for holding the key against detachment.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in perspective, a device constructed in accordance with the invention, parts being broken away; Figure 2 is an elevation of the wrist pin, parts being in section and parts being broken away; and Figure 3 is a perspective view showing the key.

The numeral 1 marks a crank arm provided with any suitable means 2 whereby it may be mounted on a shaft (not shown). Openings 3 are formed in the arm 1 and are spaced apart longitudinally of the arm, the arm having seats 4 which extend entirely through the arm from side to side, the seats communicating with the openings 3. The numeral 5 marks a wrist pin provided with an aperture 6 adapted to receive securing means (not shown). The wrist pin is provided intermediate its ends with an annular shoulder 7 and embodies a reduced stem 8 having a seat adapted to be alined with one of the seats 4 when the stem 8 is inserted into the corresponding opening 3, the shoulder 7 abutting against one side of the crank arm 1. Into the alined seats 9 and 4 is inserted a key 10. The stem 8 has a reduced tip 11 whereon a nut 12 is threaded. The nut 12, bearing against one side of the crank arm 1 draws the shoulder up against the other side of the crank arm, and between the nut 12 and the shoulder 7, the key 10 is held against displacement.

What is claimed is:—

In a device of the class described, a first member having an opening and provided with a key seat extended entirely through the first member and communicating with the opening, a second member inserted into the opening and having a key seat cooperating with the key seat of the first member, the second member having a shoulder engaging one outer surface of the first member, the second member having a reduced tip provided with threads, a nut threaded on the tip and engaging the outer surface of the first member, the end surface of the tip being practically flush with the outer surface of the nut, and a key in the key seats, the key being equal in length to the greatest thickness of the first member, and being held against movement, by the nut and the shoulder, the nut and the shoulder completely covering the ends of the key, the base of the key seat in the second member being located outwardly of the threads of the tip, whereby the key may be advanced into place by the nut when the nut is rotated, without interfering with the threads.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

WILLIAM H. KIZER.