No. 667,650.

Patented Feb. 5, 1901.

M. N. CRARY.

PUMP HANDLE COUPLING.

(Application filed Mar. 1, 1900.)

(No Model.)

Fig. 3.

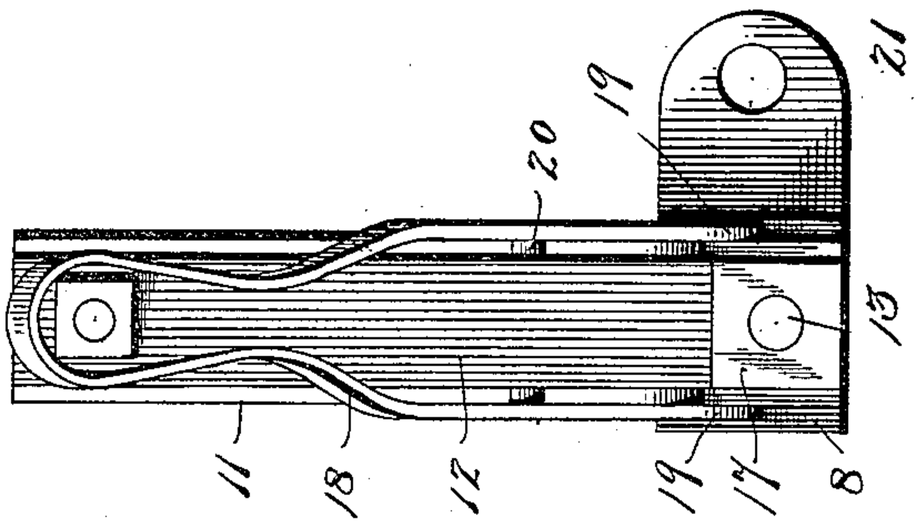


Fig. 2.

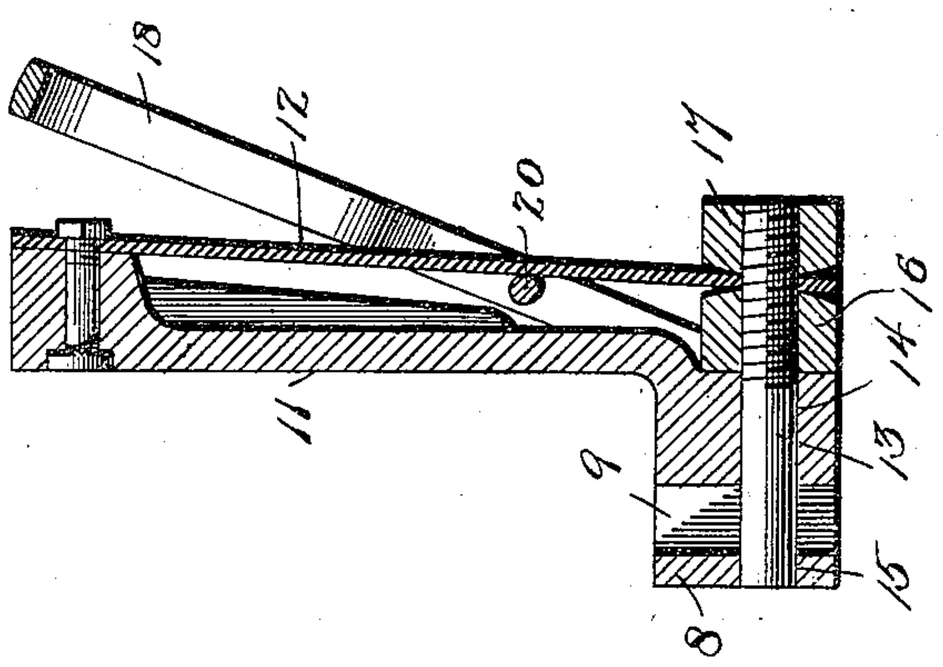
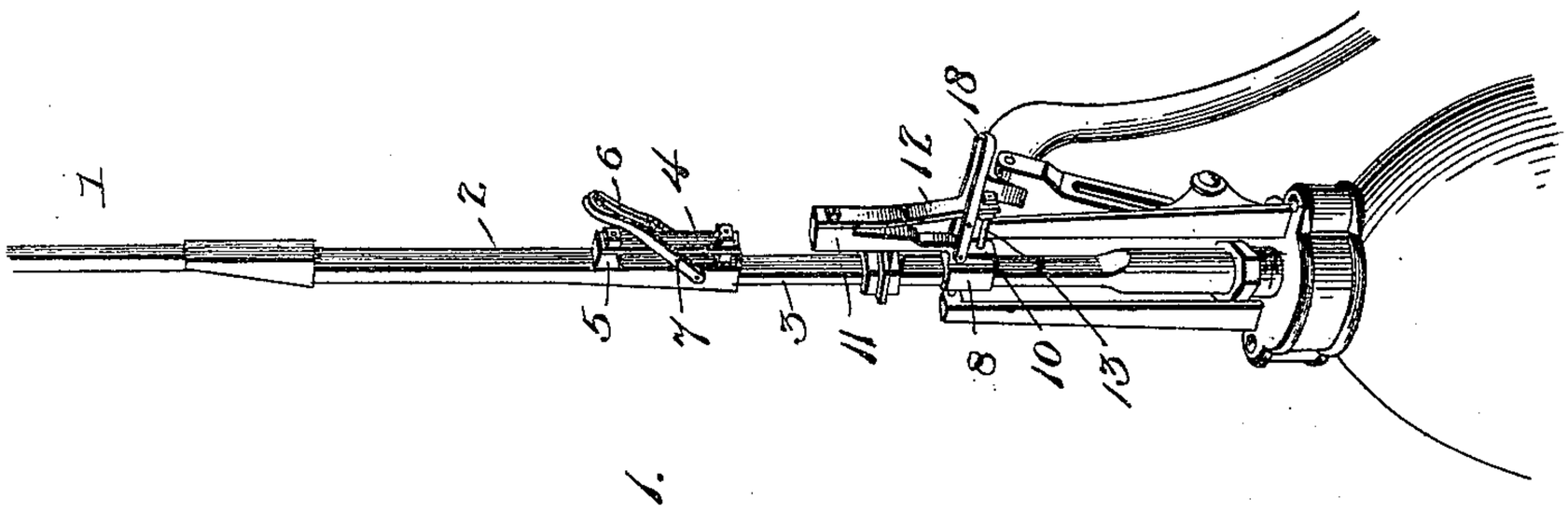


Fig. 1.



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UNITED STATES PATENT OFFICE.

MADISON N. CRARY, OF HICKSVILLE, OHIO, ASSIGNOR TO THE CRARY COUPLER COMPANY, OF SAME PLACE.

PUMP-HANDLE COUPLING.

SPECIFICATION forming part of Letters Patent No. 667,650, dated February 5, 1901.

Application filed March 1, 1900. Serial No. 6,978. (No model.)

To all whom it may concern:

Be it known that I, MADISON N. CRARY, a citizen of the United States, residing at Hicksville, in the county of Defiance and State of Ohio, have invented certain new and useful Improvements in Pump-Handle Couplers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to couplings for pump-rods, the object being to provide means whereby the sucker-rod of a pump may be readily and quickly disconnected from the pump-rod of a windmill and attached to hand operating means, and vice versa.

The construction of the improved coupling will be fully described hereinafter, and defined in the appended claim, in connection with the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a portion of a pump and its windmill adjuncts having the herein-described coupling applied thereto. Fig. 2 is a vertical section through the coupling, and Fig. 3 is a front elevation of the same.

The reference-numeral 1 designates the pump-rod of a windmill, to which is secured a coupling, such as is described in a patent granted to me under date of May 15, 1900, No. 649,890, and comprising a sleeve or casting 2, bolted at its upper end to the rod 1 and adapted at its lower end to receive the sucker-rod 3 of the pump, which is detachably connected to the sleeve of the coupling by a pin extending through openings in the sleeve and sucker-rod and secured to the lower end of a spring 4, the upper end of which is fixed upon a block or projection 5. The spring 4 is controlled by a bail-lever 6, having a cross-bar 7, adapted to bear against the inner surface of the spring, all as set forth in the application above referred to.

The coupling constituting the present invention is secured to the pump-handle, and consists of a block or body portion 8, formed with a bore or channel 9, through which the sucker-rod 3 extends and is guided. The block 8 is formed with a lateral extension 10, from which rises a vertical arm 11. A spring 12 is secured at its upper end to the outer side of the upper end of the arm 11, the lower end of said spring being provided with a horizontally-projecting bolt 13, adapted to extend through openings 14 and 15 of the block and a corresponding opening in the sucker-rod. The outer end of the bolt 13 is screw-threaded and provided with oppositely-disposed nuts 16 and 17, arranged on opposite sides of the spring 12.

18 designates a bail-lever, the ends 19 of which are pivotally secured to the extension 10 of the block 8. This bail is provided with a transverse rod 20, which bears against the inner side of the spring 12 to force the spring outward, thus withdrawing the pin from engagement with the sucker-rod. When the bail-lever 18 is in horizontal position, as shown in Fig. 1, the sucker-rod is free to be moved up and down by the pump-rod 1, the block 8 serving as a guide; but by connecting the lower coupling to the sucker-rod 3 by throwing up the bail-lever 18 and disconnecting the upper coupling from said rod the latter may be operated by the pump-handle, as will be readily understood.

The perforated lug 21, projecting from the block 8, provides for the attachment of the coupling to the pump-handle.

I claim—

A coupling of the class described, comprising a block or guide provided with a vertical passage adapted to receive the sucker-rod of a pump, said block or guide also having horizontally-alined openings, an outwardly-projecting lug carried by said block or guide for attaching the coupling to the handle of the pump, a vertical arm rising from the block or guide, a spring secured to said arm, a bolt or pin secured to said spring and fitting within the horizontally-alined openings of the block or guide for attaching the latter to the sucker-rod of the pump, and a bail pivotally secured to said block or guide and provided with a transverse bar bearing against the inner surface of said spring whereby the latter is moved outwardly when the bail is depressed, to disengage the bolt or pin from the sucker-rod.

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

MADISON N. CRARY.

Witnesses:
THOS. D. HOOD,
W. F. HORTON.