

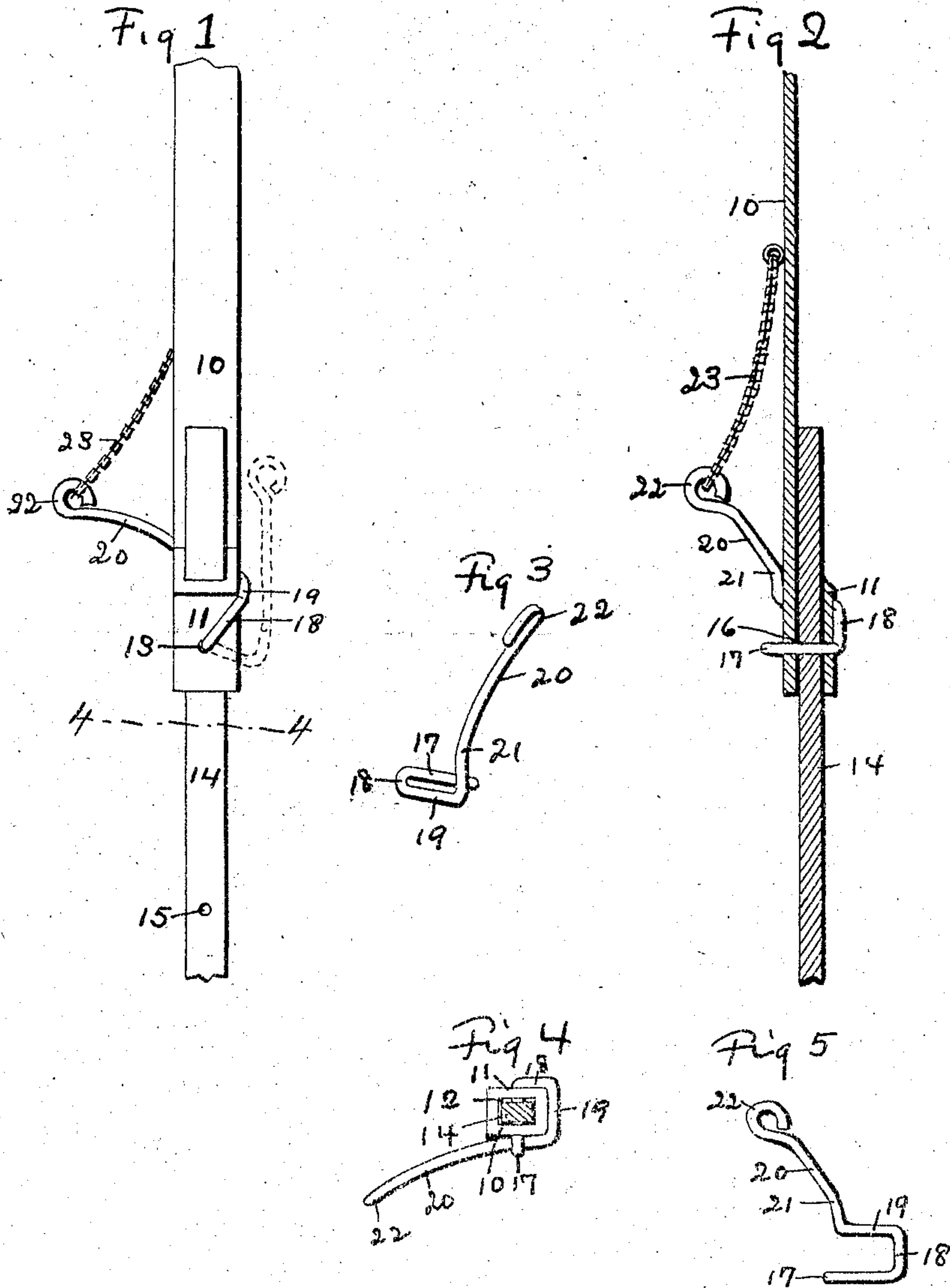
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W. HARTZ.

PIN FOR ATTACHING WINDMILL RODS TO PUMP RODS.

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UNITED STATES PATENT OFFICE.

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PIN FOR ATTACHING WINDMILL-RODS TO PUMP-RODS.

SPECIFICATION forming part of Letters Patent No. 778,412, dated December 27, 1904.

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To all whom it may concern:

Be it known that I, WILLIAM HARTZ, a citizen of the United States, residing at Sheffield, in the county of Bureau and State of Illinois, have invented a certain new and useful Pin for Attaching Windmill-Rods to Pump-Rods, of which the following is a specification.

The objects of my invention are to provide a pin for detachably holding the rod of the windmill to the rod of a pump together, and, further, to provide a pin which is made of a single piece of wire and so shaped and constructed that the pin can be inserted in an opening extending through the windmill-rod and the pump-rod and can be firmly locked in position relative to these two parts and thus maintain the parts in position relative to each other.

My invention consists in certain details in the construction, arrangement, and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a front view of a portion of the windmill-rod and the pump-rod and the pin in position for holding the windmill-rod to the pump-rod and also showing in dotted lines the position in which the pin stands as it is being inserted into the opening through the windmill-rod. Fig. 2 is a vertical sectional view of the device as shown in Fig. 1. Fig. 3 is a rear elevation of the pin detached from the windmill-rod. Fig. 4 is a sectional view of the pump-rod cut on the line 4 4 of Fig. 1, showing the locked position of the pin; and Fig. 5 is a perspective view of the pin detached from the windmill-rod.

Referring to the accompanying drawings, I have used the reference-numeral 10 to indicate the windmill-rod, having a portion 11 at the lower end thereof so constructed as to form the opening 12 between it and the windmill-rod proper, said opening extending longitudinally of the lower end of the windmill-rod 10. Extending through the front of the portion 11 and the windmill-rod 10 is an opening 13.

The reference-numeral 14 indicates the up-

per portion of the pump-rod, which is made of the ordinary construction and has two openings 15 and 16 therein, so that the windmill-rod can be attached to the pump-rod at the desired point. The upper portion of the pump-rod is designed to enter the opening 12 between the windmill-rod 10 and the portion 11 and extends longitudinally of the lower portion of the windmill-rod, so that when the two parts are held together the openings 16 and 13 are in line, or else the openings 15 and the opening 13 are in line, depending upon the position of the windmill-rod 10 relative to the pump-rod 14.

I have provided a pin for holding the windmill-rod 10 and the pump-rod in position relative to each other comprising a pin 17, the pin-supporting member 18 at right angles to the pin 17, and the connecting-piece 19 at right angles to the pin-supporting member 18 and substantially parallel with the pin 17, so that the portions 17, 18, and 19 are substantially U-shaped.

Extending upwardly from the connecting-piece 19 is a handle 20, having its top portion bent away from the connecting-piece 19, so that the bend in the handle is made at the point 21. The upper portion of the handle has an eye 22 in it so constructed as to allow a rope or chain 23 to be attached to it and to the windmill-rod 10 to prevent the pin from being disconnected entirely from the rod, and thus prevent the danger of losing it.

In use when the parts are in the position above described—namely, the pump-rod 14 is in the opening 12 and the opening 16 is in line with the opening 13—the pin 17 is inserted in the opening 13 and is moved to its rearward limit of movement until the pin-supporting member 18 engages the front face of the portion 11 and the connecting-piece 19 is at one side of the pump-rod 10, as shown clearly in dotted lines in Fig. 1. The handle is then drawn toward the position shown in Fig. 1, so that the bent portion 21 engages the rear of the pump-rod 10, which causes the pin to be drawn to its extreme inner limit of movement and the pin-supporting piece 18 to engage the front of the portion 11 and firmly lock the pump-rod 14 and the windmill-rod

10 together. In removing the pin the operation is reversed.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States therefor, is—

5 1. In a device of the class described, a pin having a pin-supporting member substantially at right angles thereto, a connecting-piece substantially at right angles to the pin-sup-
10 porting member and parallel with the pin, and a bent handle extending upwardly from the connecting-piece 19.

2. In a device of the class described, a pin having a pin-supporting member substantially
15 at right angles to said pin, a connecting-piece at right angles to the pin-supporting member, said pin-supporting member and the connecting-piece forming a substantially U-shaped
20 portion and a handle extending upwardly from the connecting-piece.

3. A windmill-rod having an opening extending through its lower end, a pump-rod
25 having an opening extending through its upper end, a pin designed to enter said openings to maintain the windmill-rod and the pump-

rod together having a bent handle on it for engaging the windmill-rod and holding the pin in the openings when in one position and in another position to be out of engagement with the windmill-rod so that the pin will be
30 withdrawn from the openings.

4. In a device of the class described, a windmill-rod having an opening extending through its lower end, a pump-rod having an opening
35 extending through its upper end in combination with a pin designed to pass through the openings in the windmill-rod and the pump-rod and comprising a pin-supporting member
40 at right angles to the pin, a connecting-piece at right angles to the pin-supporting member and parallel with the pin, a bent handle extending upwardly from the connecting-piece and
45 designed to be drawn into engagement with the rear of the windmill-rod for holding the pump-rod to the windmill-rod, for the purposes stated.

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