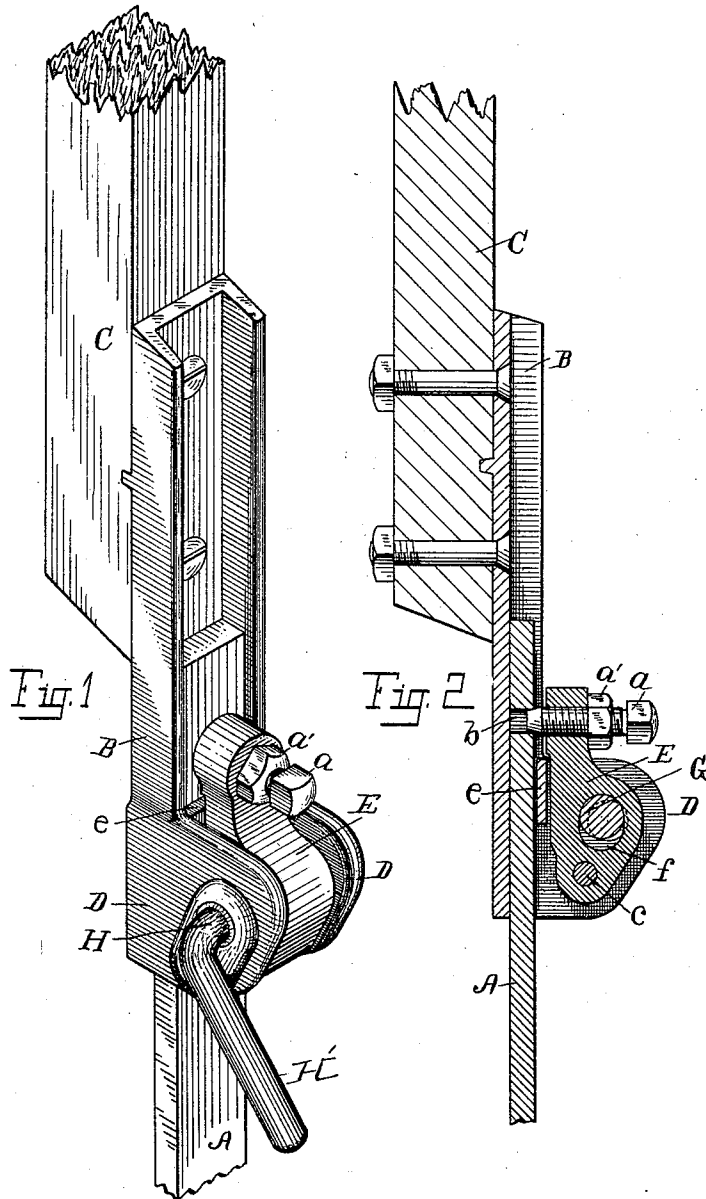


(No Model.)

J. T. HOSTLER.
COUPLING DEVICE.

No. 543,935.

Patented Aug. 6, 1895.



Witnesses:
Walter S. Ford
Wm. C. Hill

Inventor.
John T. Hostler
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Att'y.

UNITED STATES PATENT OFFICE.

JOHN T. HOSTLER, OF KALAMAZOO, MICHIGAN.

COUPLING DEVICE.

SPECIFICATION forming part of Letters Patent No. 543,935, dated August 6, 1895.

Application filed October 20, 1893. Serial No. 488,680. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. HOSTLER, a citizen of the United States, residing at the city of Kalamazoo, in the county of Kalamazoo and State of Michigan, have invented a certain new and useful Coupling Device, of which the following is a specification.

My invention relates to means of attaching and detaching the pump-rod of a windmill to and from the piston-rod of a pump.

This invention is an improvement on a former invention of mine for the same purpose for which I have applied for Letters Patent April 20, 1893, Serial No. 471,187.

The objects of this invention are, first, to provide a device that shall require no extra preparation of the piston-rod of the pump and no change in the windmill pump-rod; second, to provide means of adjusting the catch; third, to provide improved means of operating the catch; fourth, to provide improved means of holding the catch in position required, and, fifth, to simplify the construction generally. I accomplish these results by the device shown in the accompanying drawings, in which—

Figure 1 is a view in perspective of the same. Fig. 2 is a vertical sectional view from front to back through the same.

Similar letters of reference refer to similar parts throughout both views.

A is the top portion of the piston-rod of a pump in the usual form.

C is the pump-rod of a windmill.

B is the iron slide embodying my invention and is adapted to receive the pump piston-rod in the usual way. I extend the slide B laterally on each side of the piston-rod A, forming opposite parallel projections D D, which are connected by a cross portion e, which serves to retain the piston-rod A in place laterally.

Between the plates D is a latch-piece E, pivoted at c. Through the upper end of this latch-piece E a screw-bolt a is inserted, which is pointed at the end and adapted to engage the hole b, which is found in nearly all pump piston-rods. This bolt is of course adjustable, and the jam-nut a' locks it in place. Through

the latch-piece E is an elongated opening f, 50 and an eccentric-cam G on rod H is adapted to move in the opening f, so as to operate the latch-piece E.

The rod H is adapted to bearings in the plates D and is held to place by any suitable 55 bushing or other well-known means. The rod H is bent to one side and forms handle H' for operating the device.

As shown, the windmill pump-rod is attached. By turning the handle H up and 60 over to the opposite position the eccentric-cam G will be rotated a little more than half way and the latch-piece E withdrawn, thus uncoupling the parts. As the eccentric passes a little by the center each time, the parts are 65 not liable to be accidentally displaced. I prefer to have the cam fit a little tight in the upper end of the opening f, as a double precaution against accidental displacement.

The advantage of this device is apparent. 70 It is adjustable and consequently requires no fitting of the parts. It is compact and strong, not depending upon rivets or bolts to hold its sides together, and advantage is taken of the holes already in most piston-rods for applying 75 the catch, which is a saving of time and expense in application.

The details of construction of my invention can be considerably varied, as circumstances may require, without departing from its principle. 80

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a coupling device for windmills, the 85 combination, with a pump-rod, C, piston-rod, A, and the slide, B, carrying the projecting plates, D, of a latch-piece, E, pivoted in the plates, D, and having the elongated slot, f, the adjustable bolt, a, carried by the latch-piece, 90 E, the rod, H, having the handle, H', and the cam, G, carried on the rod, H, and working in the slot of the latch-piece and adapted to operate the pivoted latch in both directions and to hold it in position. 95

2. In a coupling device for windmills, the combination with a pump-rod, C, piston-rod, A, the slide, B, the projecting plates, D, there-

on a latch-piece, E, pivoted in the plates, D,
and having the elongated slot, *f*, a projecting
part, *a*, on the latch-piece, E, the rod, H, the
handle, H', and the cam, G, on the rod, H,
5 working in the slot *f* of the latch-piece and
adapted to operate the pivoted latch in both
directions and hold it in position.

In witness whereof I have hereunto set my
hand and seal in the presence of two witnesses.

JOHN T. HOSTLER. [L. S.]

Witnesses:

C. E. WESTBROOK,

F. L. CHAPPELL.