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Patented June 5, 1900.

M. W. BUSH & E. E. HASKELL.
COUPLING FOR PUMP RODS AND WINDMILL PITMEN.

(Application filed Jan. 2, 1900.)

(No Model.)

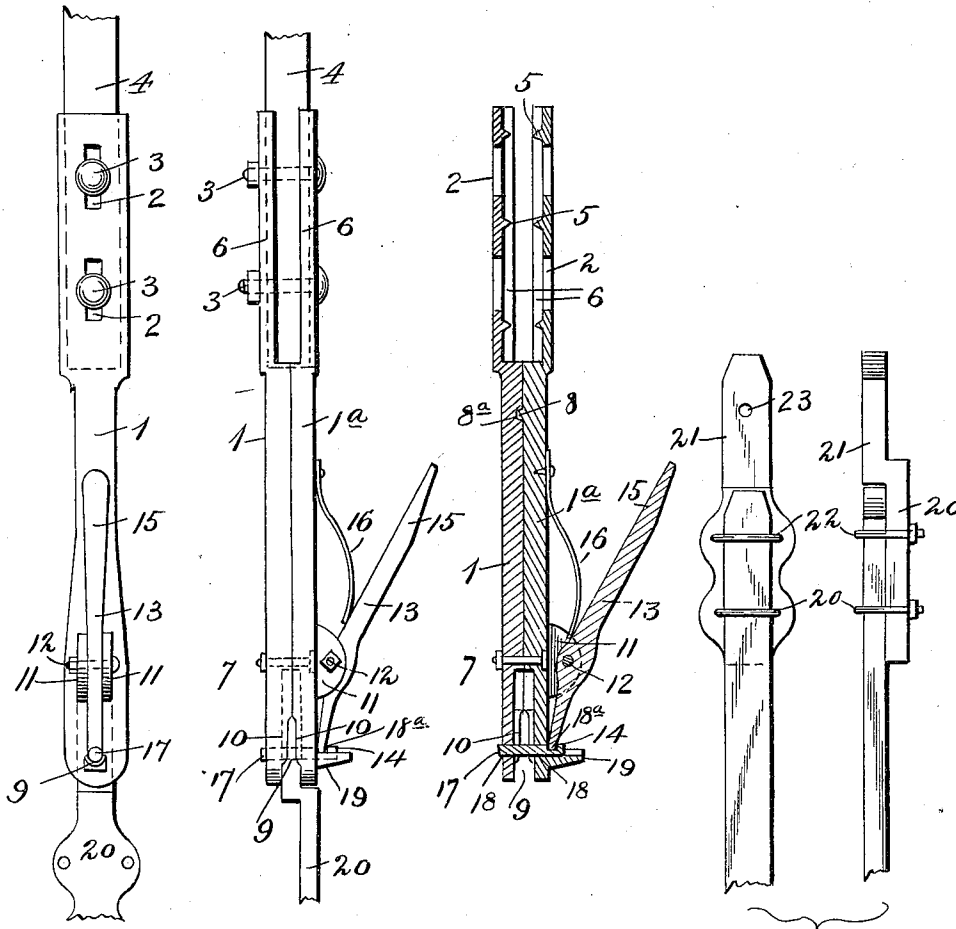


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

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UNITED STATES PATENT OFFICE.

MICHAEL W. BUSH AND EDWARD E. HASKELL, OF MENOMONIE, WISCONSIN, ASSIGNORS OF ONE-FOURTH TO ARTHUR W. MESSENGER, OF SAME PLACE.

COUPLING FOR PUMP-RODS AND WINDMILL-PITMEN.

SPECIFICATION forming part of Letters Patent No. 651,180, dated June 5, 1900.

Application filed January 2, 1900. Serial No. 193. (No model.)

To all whom it may concern:

Be it known that we, MICHAEL W. BUSH and EDWARD E. HASKELL, citizens of the United States, residing at Menomonie, in the county of Dunn and State of Wisconsin, have invented new and useful Improvements in Couplings for Pump-Rods and Windmill-Pitmen, of which the following is a specification.

Our invention relates to coupling devices for connecting the pitman of a windmill to the piston-rod of a pump; and the objects of the same are to provide a device of this character which will be simple in construction, reliable in use, not liable to get out of order, which can be quickly and easily adjusted, and which will hold the piston-rod of the pump in direct line with the pitman from the windmill. We attain these objects by means of the construction shown in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a front view of our coupler. Fig. 2 is a side view of the same. Fig. 3 is a longitudinal section through the coupler and showing the pitman and the pump-rod broken away. Fig. 4 is a detail of the coupling-plate secured to the upper end of the pump-rod.

Like numerals of reference designate like parts wherever they occur in the different views of the drawings.

In said drawings, 1 1^a designate the clamping-plates for the coupler, and these plates are provided at their upper ends with alined slots 2, through which the bolts 3 pass for holding the pitman 4 in adjusted position between said plates. Teeth 5 are formed on the inner surfaces of said plates to embed within the pitman when clamped, and side flanges 6 are formed on the plates to form a socket for the end of the pitman. The plates 1 1^a are secured together by a bolt 7, and lugs 8 on plate 1^a are fitted into apertures 8^a, formed in the plate 1. The lower ends of these plates are recessed at 9 to form a socket for the upper end of the pump-rod, and flanges 10 extend toward each other to close the edges of the socket. The plate 1^a is provided with lugs 11, and pivoted between these lugs, on the pin-

tle 12, is a lever 13, having a toe or projection 14 at one end and a handle 15 at the other. A spring 16 is secured to the plate 1^a and bears against the handle of the lever to throw the toe 14 inward. A pin 17 passes through the alined apertures 18 in the plates 1 1^a, and the toe 14 rests in an aperture 18^a in the pin to move it when the lever is actuated. A guideway 19 for the pin is formed on the plate 1^a. A plate 20, having an offset 21, is connected to the upper end of the pump-rod by stirrups or clamps 22, and the upper end of said plate has an aperture 23 for the pin 17. By means of the offset 21 the pump-rod is held in a direct line with the pitman from the windmill.

When it is desired to disconnect the pump-rod from the windmill-piston, the handle of the lever is operated to withdraw the pin 17, and when it is found necessary to adjust the coupling vertically on the pitman the bolts 3 are loosened up and adjusted in the slots 2 at any point desired to make the connection operative and to regulate the throw of the pump-rod.

Having thus fully described our invention, what we claim is—

1. In a coupling for pump-rods and windmill-pitmen, a pair of clamping-plates having slotted upper ends and recessed lower ends, a lever pivoted to one of said plates, a pin passing through alined perforations in the lower ends of said clamping-plates and the lever connected to said pin, substantially as described.

2. In a coupling device, a plate connected to the pump-rod and provided with an offset, one end of said plate having a perforation, a pair of clamping-plates secured to the windmill-pitman, a lever pivoted to one of said plates, a pin passing through both plates, and the lever connected thereto, said pin also passing through the perforation in the plate connected to the pump-rod, substantially as described.

3. In a pump-coupling a pair of clamping-plates connected at their upper ends to the windmill-pitman and at their lower ends to

the pump-rod, a pin passing through the plates
and connecting the pump-rod thereto, said
pin having a recess near one end, a lever piv-
oted to one of the clamping-plates and con-
5 nected to said pin by a toe on the lever seated
in the recess in the pin, and a guideway on
one of the clamping-plates to guide the pin,
substantially as described.

In testimony whereof we have hereunto set
our hands in presence of two subscribing wit- 10
nesses.

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Witnesses:

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