I. O. MUSGJERD.

BOLT.

APPLICATION FILED JULY 21, 1919.

1,362,501. Patented Dec. 14, 1920.

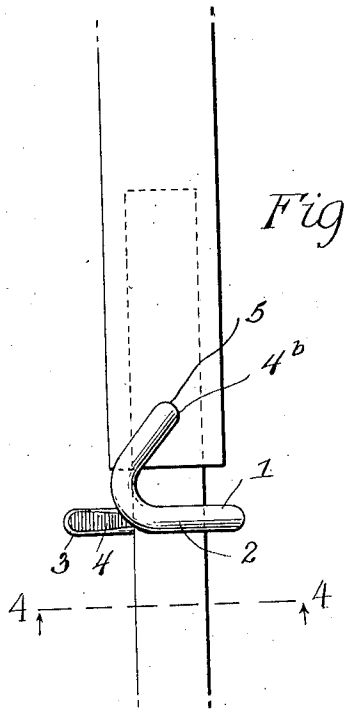


Fig. 1

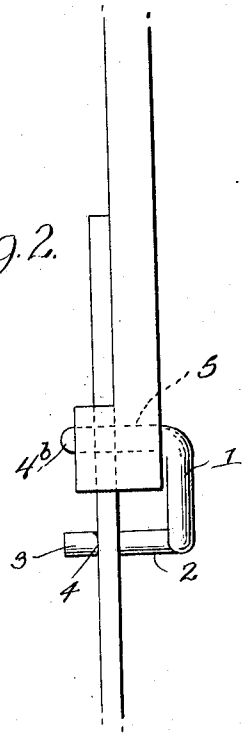


Fig. 2.

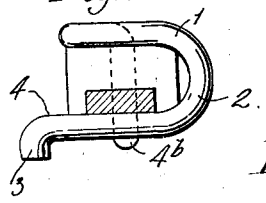


Fig. 4.

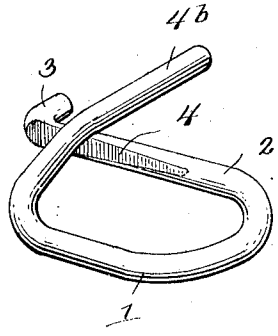


Fig. 3.

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BOLT.

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To all whom it may concern:

Be it known that I, IVER O. MUSGJERD, a citizen of Norway, residing at Osnabrock, in the county of Cavalier and State of North Dakota, have invented new and useful Improvements in Bolts, of which the following is a specification.

This invention relates to a bolt or connection by means of which the two parts of a pump rod may be effectively connected together and has for its primary object to provide a bolt of such a construction that the foregoing result can be accomplished in a manner that the parts of the pump rod will be connected in a positive manner, held against rattling and the joint materially reinforced in predetermined directions.

An object of the invention is to provide a bolt of inexpensive construction, capable of materially reinforcing the joint formed at the point of connection of the two parts of the pump rod.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawings, wherein:—

Figure 1 is a view of the associated ends of the parts of a pump rod showing my invention applied thereto.

Fig. 2 is a detailed sectional view.

Fig. 3 is a perspective view of the bolt.

Fig. 4 is a cross sectional view on the line 4—4 of Fig. 1.

Again referring to the drawing illustrating one of the many forms in which the invention may be constructed the numeral 1 designates the bolt in its entirety which is of such a shape as to provide a U-shaped body portion 2. This U-shaped body portion has one end bent into a cam 3 that merges into a inclined surface 4 formed on the body portion for a purpose hereinafter described. The other end portion of the body portion is bent in a direction to provide a horizontal extension 4^b passing directly over the body portion but spaced therefrom with the advantage that the center of gravity is positioned directly below this horizontal extension. The advantage of this construction is that when the horizontal extension 4^b is arranged in the alining openings 5 in the associated end portions of the pump rod parts the gravitational action of the major portion of the bolt below the extension 4^b will cause the body portion to move to a position where three sides of the connection between the pump parts will be embraced thereby materially reinforcing the joint.

An important feature of my invention is the cam 3 and the manner of associating the same with the inclined surface 4 so that by striking the bolt at the proper point this cam action between the body portion of the pump rod and the bolt will draw the extension 4^b into tight engagement with the openings thereby preventing rattling of the parts in the operation of the drill. Attention is called to the fact that when the inclined surface 4 is drawn into tight engagement with the adjacent surface of the pump rod the bolt will be held against rattling.

It is of course to be understood that the invention may be constructed in various other manners than shown and therefore I do not desire to be limited in any manner except as set forth in the claim hereunto appended.

What I claim is:—

A bolt for connecting the two parts of a pump rod together comprising a single piece of metal bent to form a U-shaped body embracingly engaging three sides of the associated ends of the parts of the rod, one end of said U-shaped portion being bent laterally and flattened adjacent said bend to form a cam, and the other end of the U-shaped member being angularly inclined and bent to provide an arm extending transversely of and in spaced relation to the U-shaped member, the parts of the pump rod being provided with registering holes through which said arm is passed.

In testimony whereof I affix my signature.

IVER O. MUSGJERD.