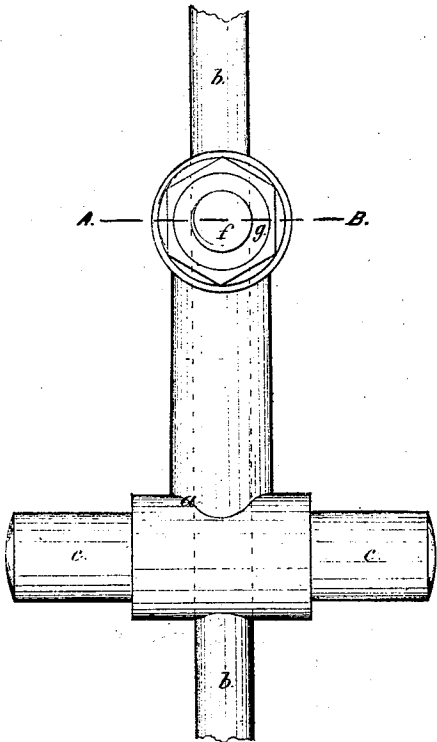


*H. H. Locke,*

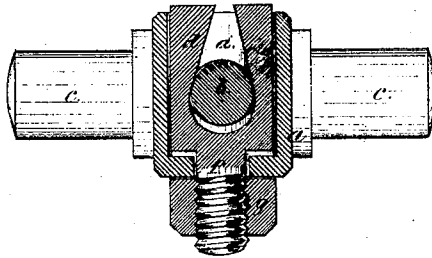
*Shaft Coupling.*

*No. 103632.*

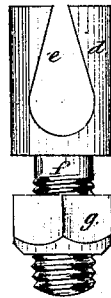
*Patented May 31, 1870.*



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

*W. H. Pond, Jr* Witnesses.  
*R. Cameron, Jr.*

*Henry H. Locke,* Inventor.  
*by C. B. Howland,* Attorney.

# United States Patent Office.

HENRY H. LOCKE, OF PLEASANTVILLE, PENNSYLVANIA.

Letters Patent No. 103,632, dated May 31, 1870.

## IMPROVEMENT IN PUMP-ROD ATTACHMENTS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, HENRY H. LOCKE, of the borough of Pleasantville, county of Venango and State of Pennsylvania, have invented a certain new and improved Pump-rod Attachment; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a front view of the device;

Figure 2, a horizontal section on line A B; and

Figure 3, a detached view.

In pumping artesian wells it is frequently necessary to adjust the length of the pump-rod with relation to the lower valve, which adjustment can be most readily effected at the point where the rod is attached to the working-beam.

The object of my invention is to provide such a mode of attachment that the rods can be adjusted with the least possible loss of time, and be held perfectly secure in any desired position.

In the drawing—

*a* represents a T-shaped cross-head, to which the pump-rod *b* is attached, said cross-head having two turned bearings *c c*, which fit into boxes attached to the end of the working-beam, and allow of the necessary oscillation at different points of the stroke.

The pump-rod *b* passes through a hole drilled through the center of the cross-head *a*, and is made

of sufficient length to allow of the necessary adjustment.

A hole is cored or drilled through the center of the cross-head *a*, at right angles with the rod *b*, and with a shoulder therein, as shown in fig. 2, into which hole the slotted bolt or key *d* is inserted.

Said key *d* is made with a tapering slot, *e*, and pin *f*, and provided with a nut, *g*, all as shown in detail in fig. 3.

The bolt or key *d* being inserted in its place, as shown in fig. 2, the rod *b* is passed through it and the cross-head, when, by tightening or screwing up the nut *g*, the rod is gripped and held firmly by and between the inner tapering or wedging surface of the slot *e* and the cross-head.

The rod *b* may be readily slipped up or down in the cross-head, by simply loosening the nut *g* and key *d*, and held at any desired point by tightening the same.

Having thus described my improvement,

What I claim as my invention, and desire to secure by Letters Patent, is—

The cross-head *a*, rod *b*; slotted bolt or key *d*, and nut *g*, combined and arranged substantially as and for the purposes set forth.

Witnesses:

HENRY H. LOCKE.

G. L. UNDERWOOD,

DAVID DALE,

G. W. UNDERWOOD.