

H. H. Locke,
Shaft Coupling.
No. 103632. Patented May 31, 1870.

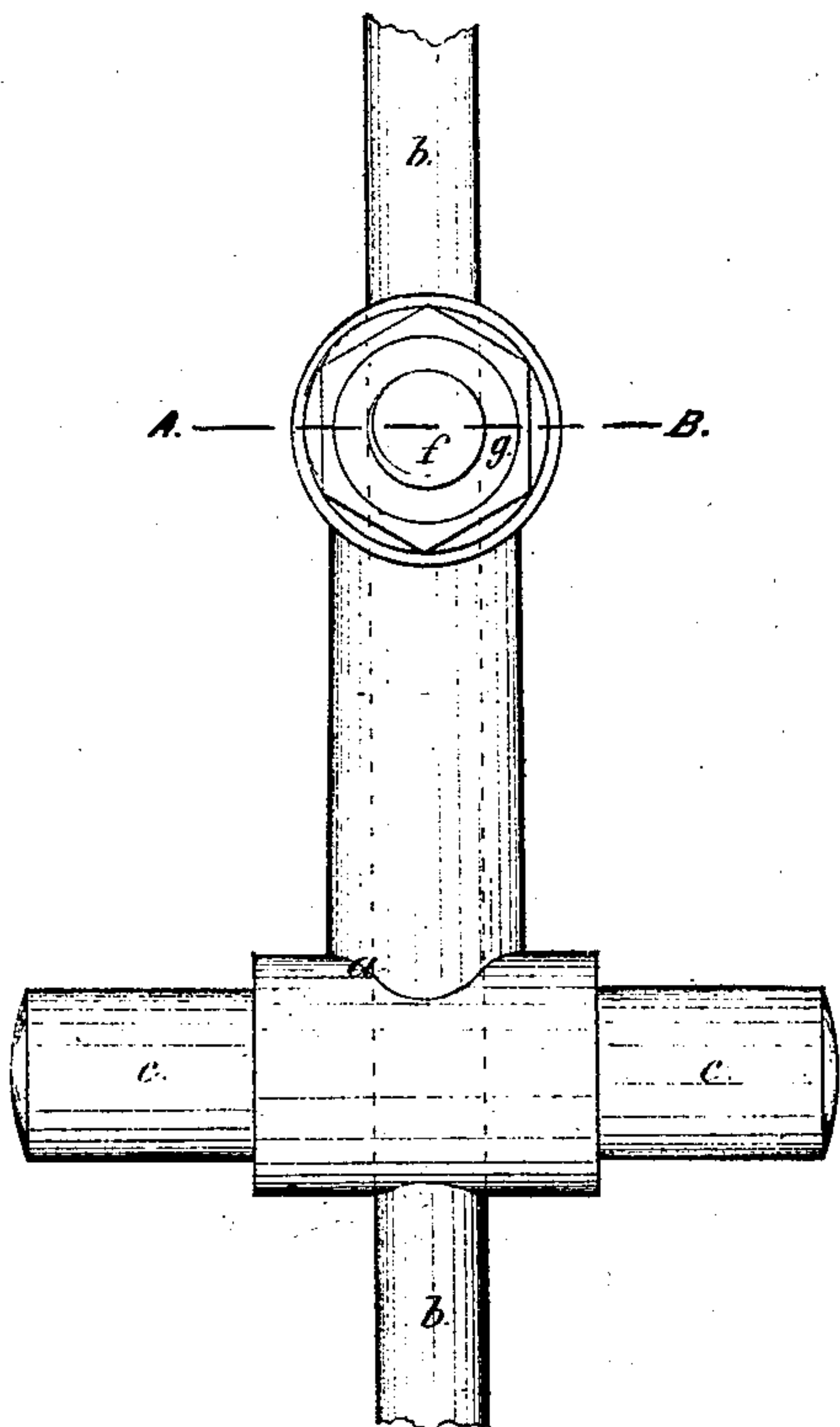


Fig. 1.

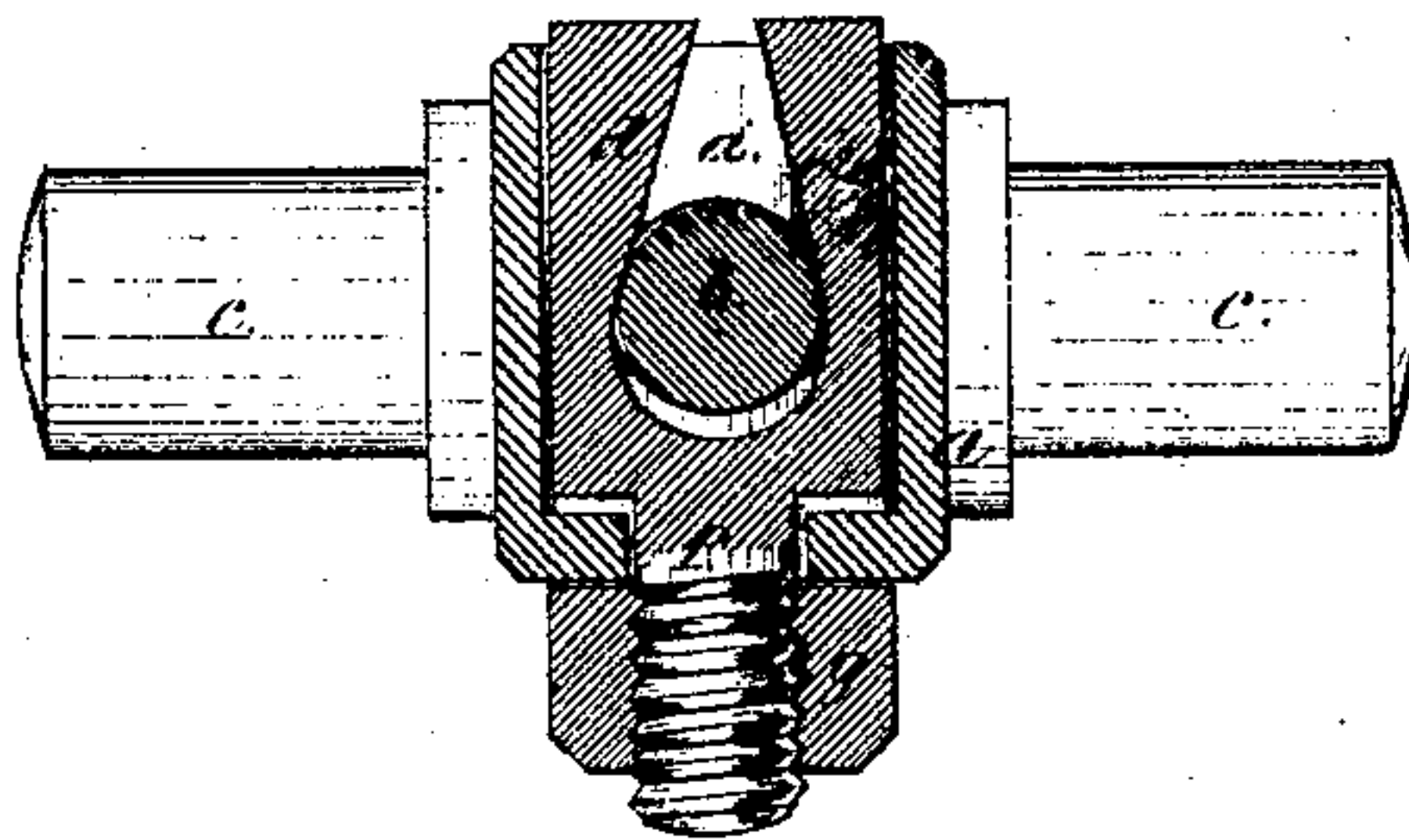


Fig. 2.

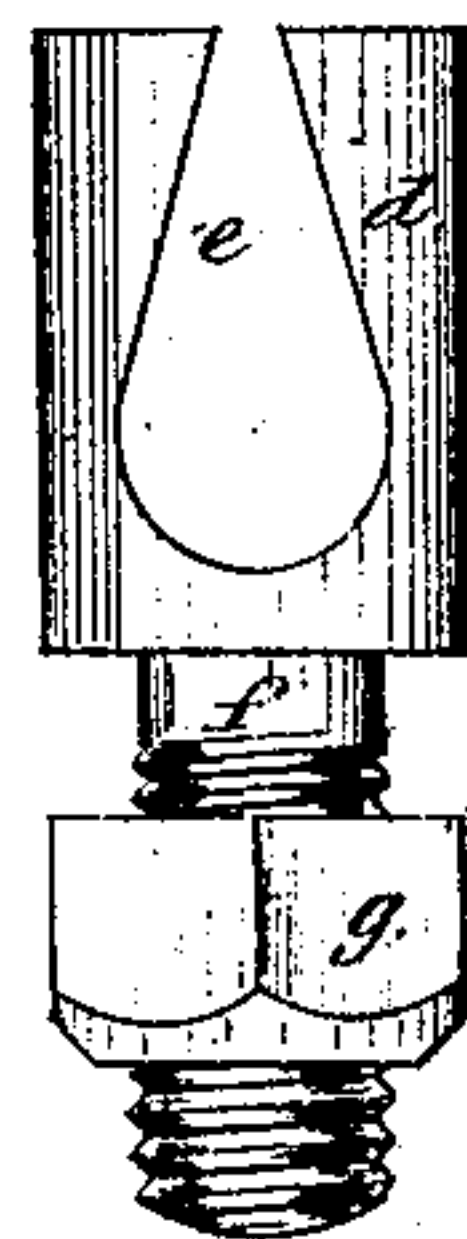


Fig. 3.

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

Henry H. Locke. Inventor.
by A. 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.