

J. Robertson,

Pitman Connection.

N^o 76,526.

Patented Apr. 7, 1868.

Fig. 1.

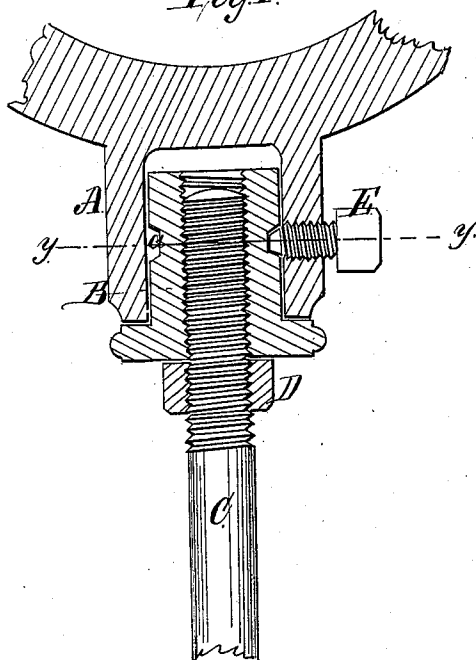
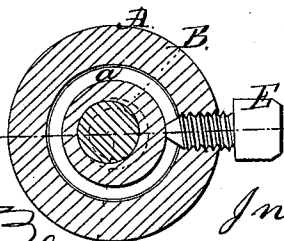


Fig. 2.



Witnesses:

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JOHN ROBERTSON, OF QUINCY, ILLINOIS.

Letters Patent No. 76,526, dated April 7, 1868.

IMPROVEMENT IN VALVE-ROD CONNECTIONS.

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, JOHN ROBERTSON, of Quincy, in the county of Adams, and State of Illinois, have invented a new and improved Adjustable Valve-Rod Connection; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved device for connecting the valve-rod of a steam-engine to the eccentric-band, whereby the rod may be adjusted to the proper length without turning it round or in any manner disturbing any of the parts connected with it.

And the invention consists in a sleeve-nut attached to the eccentric-band, as hereinafter described.

Figure 1 represents a longitudinal section of the arrangement, through the line *x x* of fig. 2.

Figure 2 is a cross-section, through the line *y y* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the neck of the eccentric.

B is the sleeve-nut.

C is the valve-rod.

D is a jam-nut.

E is a set-screw.

As this connection has ordinarily been made, it is necessary to turn the rod in order to shorten or lengthen it, which, in the nice adjustment of the valve of a steam-engine, is very objectionable, as properly setting the valve is a delicate operation.

With this connection that operation can be performed with the greatest nicety without disturbing the rod at all.

The sleeve-nut B is fitted to the recess in the neck of the eccentric-band.

a is a groove around the nut, to which the end of the set-screw E is fitted, as seen in the drawing.

This screw keeps the sleeve in place, while the sleeve is allowed to turn freely in the neck of the eccentric when it is desired to adjust the rod.

When the rod is properly adjusted, the nut D is turned so as to press tightly on the sleeve and keep the connection firm.

Two or more set-screws may, if found necessary, be used the same as E is, to hold the sleeve.

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

The sleeve-nut B, arranged substantially as shown, whereby a valve-rod or connecting-rod may be adjusted without turning the same, substantially as described.

The above specification of my invention signed by me, this 21st day of August, 1867.

JOHN ROBERTSON.

Witnesses:

THOS. HILL,

ROBERT W. GARDNER.