

*Edward S. Blake's
Improvement in Pit-man-Rods.*

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PATENTED JUL 4 1871

Fig. 1

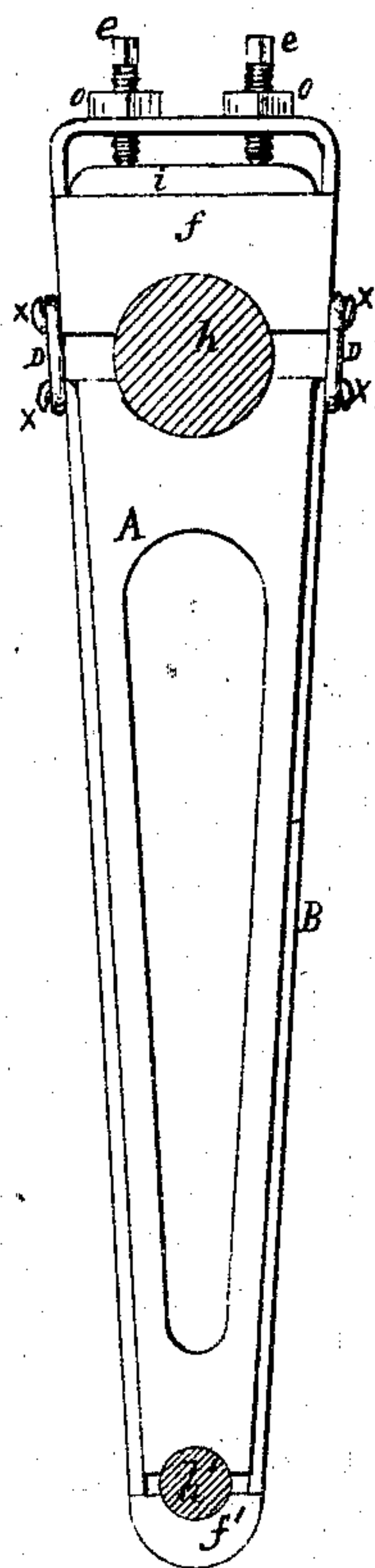
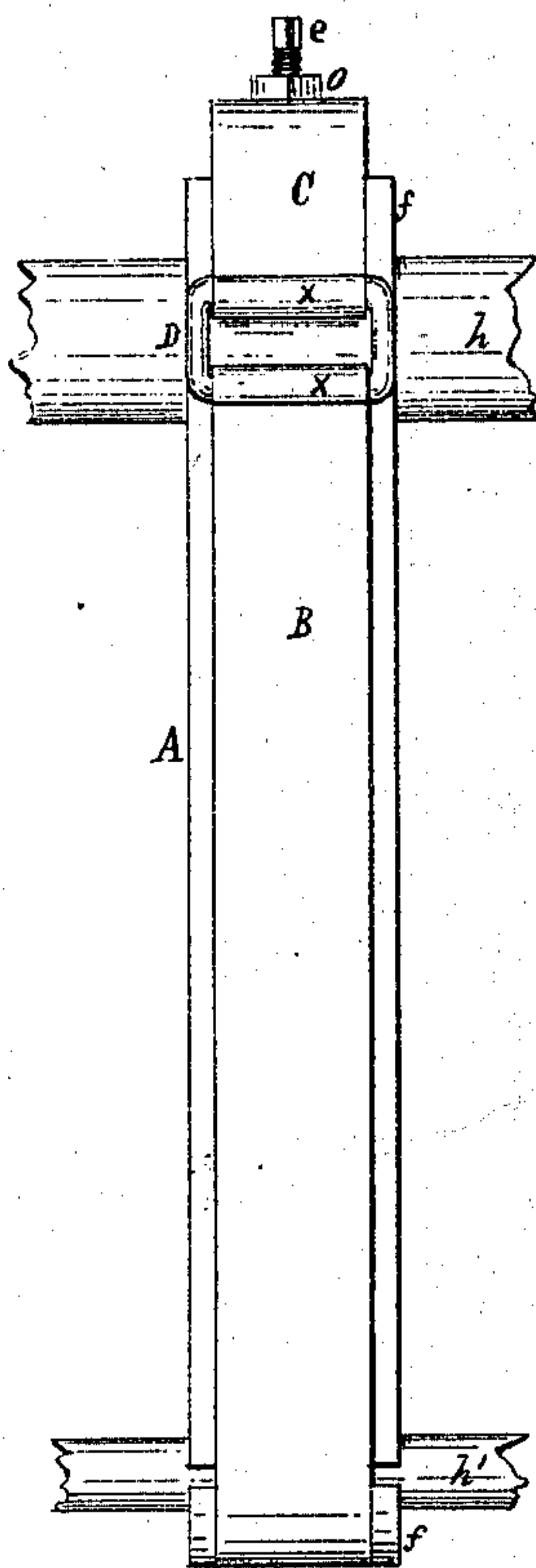


Fig. 2



Witnesses.

*A. L. Johnston
James S. Johnston*

Inventor

E. S. Blake

UNITED STATES PATENT OFFICE.

EDWARD S. BLAKE, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN PITMEN-RODS.

Specification forming part of Letters Patent No. 116,542, dated July 4, 1871.

To all whom it may concern:

Be it known that I, EDWARD S. BLAKE, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Pitmen-Rods; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in combining and arranging with the beam or brace of a pitman-rod straps, links, and set-screws, so that a compensation is obtained for the wear of the "brasses" around its axis.

To enable others skilled in the art to make and use my invention, I will proceed to describe more fully its construction and operation.

In the accompanying drawing which forms part of my specification, Figure 1 is a side view of my improvement in pitmen-rods. Fig. 2 is an edge view of the same.

A represents the beam or brace. B and C represent straps of iron, which are provided with hooks X, which are hooked into the openings of the links D. In the strap C are fitted two set-screws, *e*, provided with "jam-nuts" *o*. The points of the set-screws *e* press upon the plate *i*, which rests upon the brass *f* around or on the axis *h* of the pitman-rod. The brass *f'*, on or around or on the axis *h'* of the pitman-rod, is held in position with relation to the axis *h'*, by means of the strap B. The office of the jam-nuts *o* is to hold the set-screws *e* in a fixed position after being set for adjusting the brasses to the axes *h* and *h'*.

The operation of adjusting the braces to the axes *h* and *h'* is as follows: The jam-nuts *o* are unscrewed and set-screws *e* turned so as to press against the plate or packing *i*; this will force down the brass *f* to the axis *h* and at the same time draw up the strap C, which, drawing on the

links D, will draw up the strap B and thereby draw the brass *f'* against the axis *h'*.

From the foregoing description, it will be observed that the wear of the brasses *f* and *f'* is compensated for by the combination and arrangement of the several parts hereinbefore described, and that any lost motion of the pitman-rod with relation to its axis can be taken up or repaired by simply turning the jam-nuts *o o* and set-screws *e e*.

The skillful mechanic will readily see that the construction of the several parts of the pitman-rod may be varied for the purpose of adapting it to machines differing greatly from each other in form, construction, and use; therefore, I wish it clearly understood that I do not confine myself to the exact construction of the several parts as described and shown, but reserve the right to vary their construction so as to adapt my improvement in pitmen-rods to all and every kind of machinery requiring a pitman-rod.

Having thus described the nature and construction of my improvement, what I claim as of my invention is—

1. A pitman-rod, provided with straps, links, and set-screws, for the purpose of holding the brasses in close contact to the axis to which it may be connected, substantially as herein described.

2. A pitman-rod, consisting of the brasses *f*, straps B and C, links D D, and set-screws *e e*, so combined and arranged with relation to each other that a compensation is obtained for the wear of the brasses around its axis, substantially as herein described.

E. S. BLAKE.

Witnesses:

A. C. JOHNSTON,
JAMES J. JOHNSTON.