

M. SMITH.

Ox-Yoke.

Patented July 29, 1856.

No. 15,444.

Fig. 3.

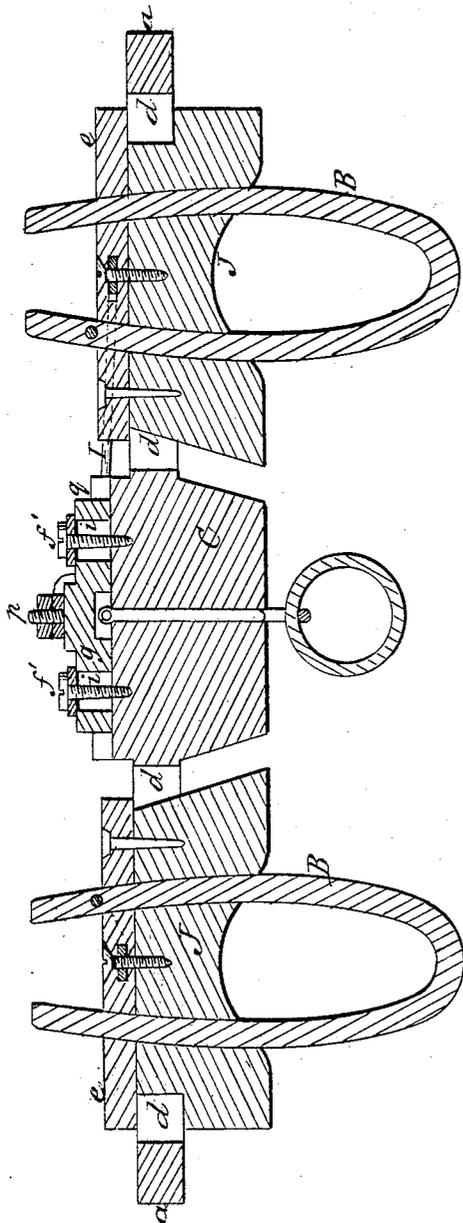
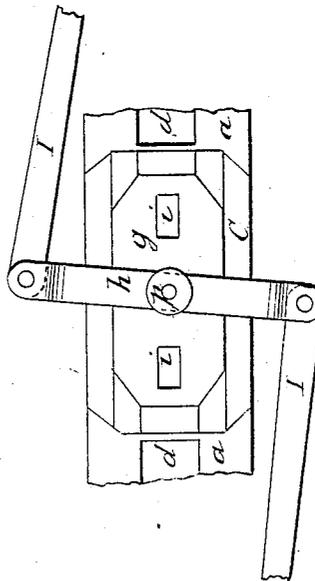


Fig. 4.



UNITED STATES PATENT OFFICE

MIRON SMITH, OF SANDISFIELD, MASSACHUSETTS.

OX-YOKE.

Specification of Letters Patent No. 15,444, dated July 29, 1856.

To all whom it may concern:

Be it known that I, MIRON SMITH, of Sandisfield, in the county of Berkshire and State of Massachusetts, have invented a new and useful Improvement in Ox-Yokes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, forming part of this specification, in which—

Figure 1 is a top view of the yoke. Fig. 2 is a side view. Fig. 3 is a longitudinal section, through the yoke taken perpendicular to the plane of top. Fig. 4 is a top view of slide block.

Similar letters of reference in the several figures denote the same part.

The nature of my invention consists in constructing the yoke with an adjustable fulcrum block, to which the lever connected with the bow slides, is attached; in order that the relation between the arms of lever with which each ox acts, may be regulated, and maintained in all positions of the bow slides: the details of construction and operation being as follows.

In the drawing *a a* is the main timber of the yoke, slotted at *d d*, for the reception of the bow slides *J J*, which are held in position by cap pieces *e e*. The central piece *C*, to which the tongue ring is fixed, has

secured upon it, the fulcrum block *g*, by screws *f' f'*. This block is slotted, as shown at *i i*, for permitting the adjustment of the block, previous to tightening. Permanently fixed in the block *g* is the fulcrum pin *p*, over which the lever *h* is passed. This lever is connected with the bow slides by the connecting rods *I I*.

The operation of this improvement is as follows: The block *g* is first adjusted, so as to give the pin *p*, a position over, or on either side of the central line, as may be desired. By placing the pin on one side of the center, the arm of lever with which the ox on that side acts, will be increased; and the arm of lever on the other side correspondingly diminished. Then as the slides *J* move in the slots *d* this relation between the arms of lever is maintained for every position of the bow slides.

I do not claim the devices for the simultaneous movement of the bow slides, as such are not new, but

I claim—

The adjustable fulcrum block *g* in combination with the bow slides *J J* as, and for the purposes set forth.

MIRON SMITH.

Witnesses:

WASHINGTON MELLETT,
ABIAL A. FULLER.