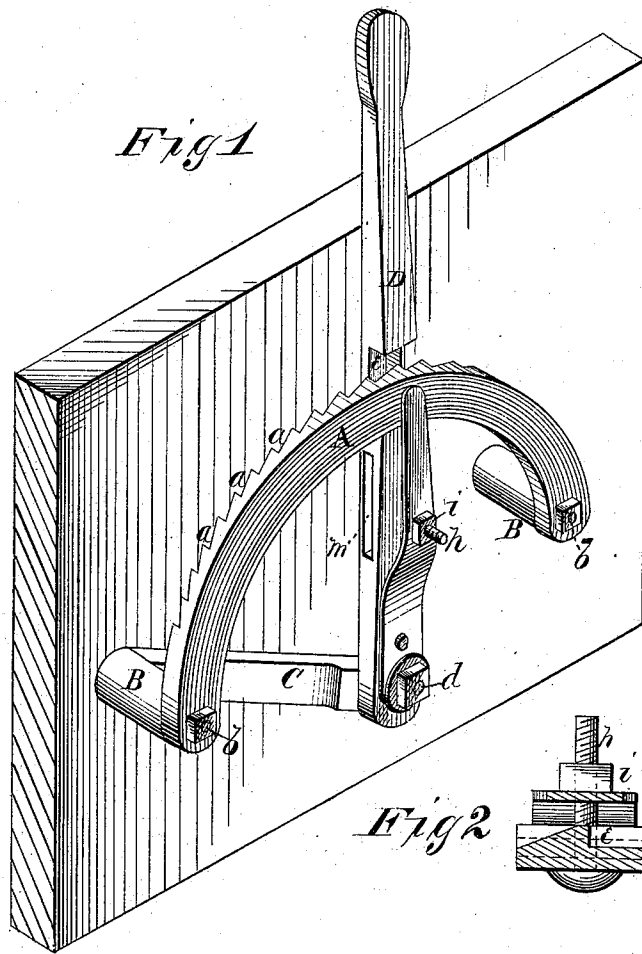


R. T. LEWIS.
WAGON-BRAKE.

No. 173,975.

Patented Feb. 22, 1876.



WITNESSES
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UNITED STATES PATENT OFFICE.

ROBERT T. LEWIS, OF ATALISSA, IOWA.

IMPROVEMENT IN WAGON-BRAKES.

Specification forming part of Letters Patent No. 173,975, dated February 22, 1876; application filed January 22, 1876.

To all whom it may concern:

Be it known that I, R. T. LEWIS, of Atalissa, in the county of Muscatine and in the State of Iowa, have invented certain new and useful Improvements in Wagon-Brake Levers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a lock-lever for wagon-brakes, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my invention. Fig. 2 is a section of the lever.

A represents the arch, formed with a series of inclined notches, *a a*, on its inner side, and a barrel or tube, B, at each end, which projects inward, and through which the bolt *b* passes, for fastening the arch to the side of the wagon-body. From the inner end of one of the barrels or tubes B projects a side strap, C, to a point at or near the center of the arch.

The arch A, barrels B B, and side strap C are all to be made in one piece, of malleable, wrought, or cast iron.

D is the handle or lever, made of malleable,

wrought, or cast iron, pivoted at its lower end to the wagon-box by a bolt, *d*, passing, also, through the end of the side strap C, and the lever or handle extending up between the wagon-box and the arch. The lever D is provided with a tooth, shoulder, or offset, *e*, to enter either of the notches *a* of the arch A, into which it is held by a flat spring, G, secured on the outside of the lever by the bolt *d*, and extending up on the outside of the arch, as shown. The tension of this spring is regulated by means of a bolt, *h*, and nut *i*, the bolt passing through the spring and the lever. At the point where this bolt passes through the lever a slot, *m*, is made in the lever, for the reception of the connecting-rod, which is pivoted in said slot by the same bolt *h*.

The end of the spring G, where it works against the arch, is to be plated with steel or iron, to prevent it from wearing out.

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

The combination, with the arch A, lever D, and spring G, of the tension-regulating bolt *h* and nut *i*, for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of January, 1876.

ROBERT THOMPSON LEWIS.

Witnesses:

ASA GUESSY,
WM. LEWIS.