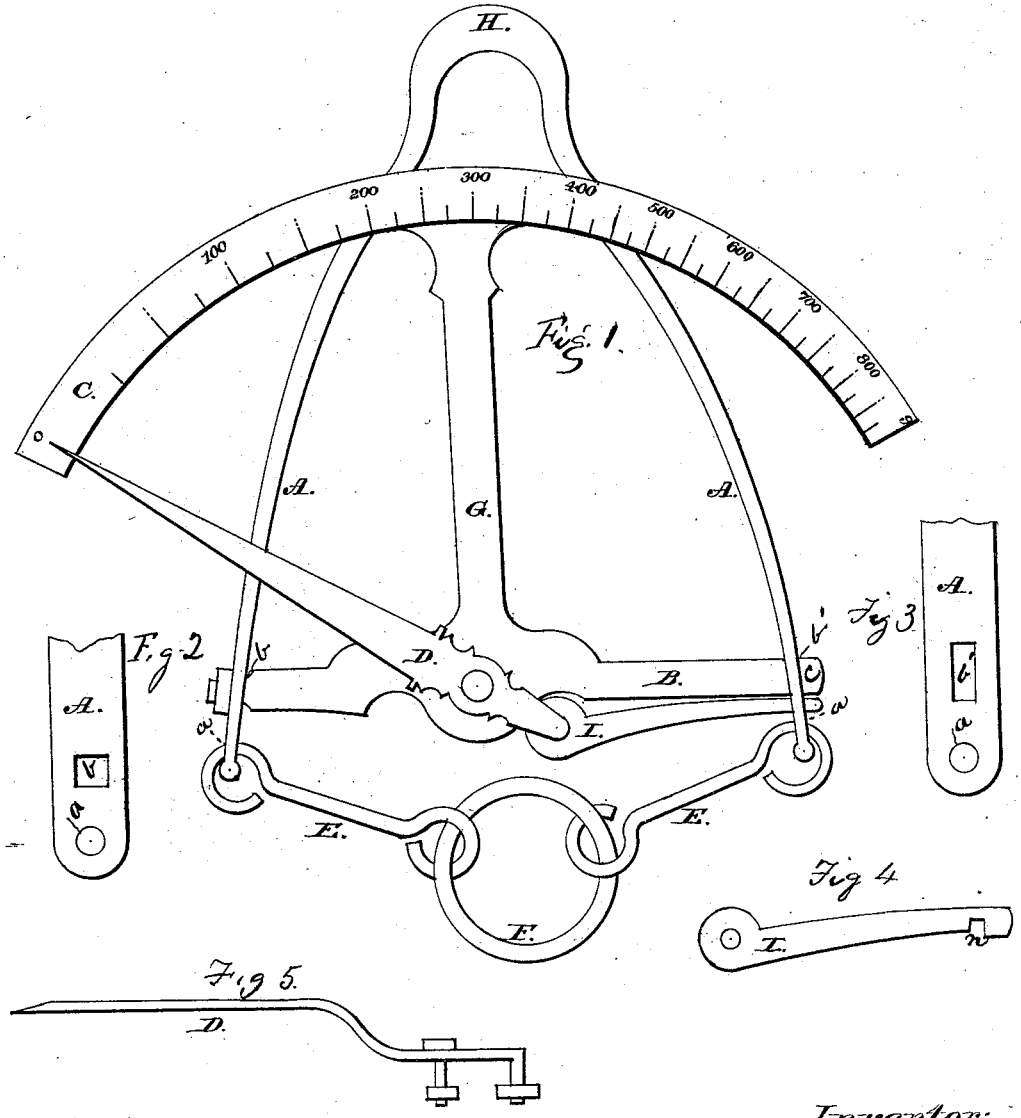
J. BLACKINTON.

DYNAMOMETER.

No. 187,088. Patented Feb. 6, 1877.



Attest:

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UNITED STATES PATENT OFFICE.

JESSE BLACKINTON, OF ROSCOE, ILLINOIS, ASSIGNOR TO WILLIAM M. RICHARDSON AND F. W. WARNER, OF SAME PLACE.

IMPROVEMENT IN DYNAMOMETERS.

Specification forming part of Letters Patent No. **187,088**, dated February 6, 1877; application filed October 15, 1875.

To all whom it may concern:

Be it known that I, JESSE BLACKINTON, of Roscoe, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Dynamometers, which are fully set forth in the following specification, reference being had to the accompanying drawings, and letters of reference marked thereon, in which—

Figure 1 is a plan view of my improved dynamometer, and Figs. 2, 3, 4, and 5 are detail views.

My invention relates to improvements in dynamometers; and consists in the employment of a bent spring, to the lower ends of which the draft-connection is attached, and provided also at its lower ends with slots, through which pass a bar having one end rigidly secured to the spring, and the other end sliding in a slot in connection with a second notched bar, passing through a slot in the bent spring, the opposite end of the notched bar being pivotally connected with a pointer, which indicates, on a graduated arc, the draft force, as hereinafter more fully set forth.

In the accompanying drawings, A represents a spring preferably made of cast-steel of suitable length and stiffness, rounded at its upper end to form the loop H, by means of which it may be attached to the plow-clevis, or other implement, the draft power of which is to be tested. *a a* are eyes in the opposite or front ends of the spring, which receive the links E E and ring F forming the draft-connection. B is a bar passing through slots *b b'*, near the outer ends of the springs, one end being rigidly secured by a bolt, or otherwise to the spring, and the opposite end sliding in the slot *b'* in the outer end of the spring. I is a bar notched at *n*, passing through the slot *b'*, the notch engaging in the edge of the slot. To the opposite end of the bar I is pivoted the pointer D. G is an arm attached to the bar B, curved at its upper end, and carrying the indicator C.

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

1. A bent spring, A, in combination with the sliding bar B, notched bar I, pointer D, and indicator C, substantially as and for the purpose set forth.

2. The bent spring A, provided with slots *b b'*, in combination with the sliding bar B, notched bar I, and pointer D, substantially as and for the purpose set forth.

JESSE BLACKINTON.

Witnesses:

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