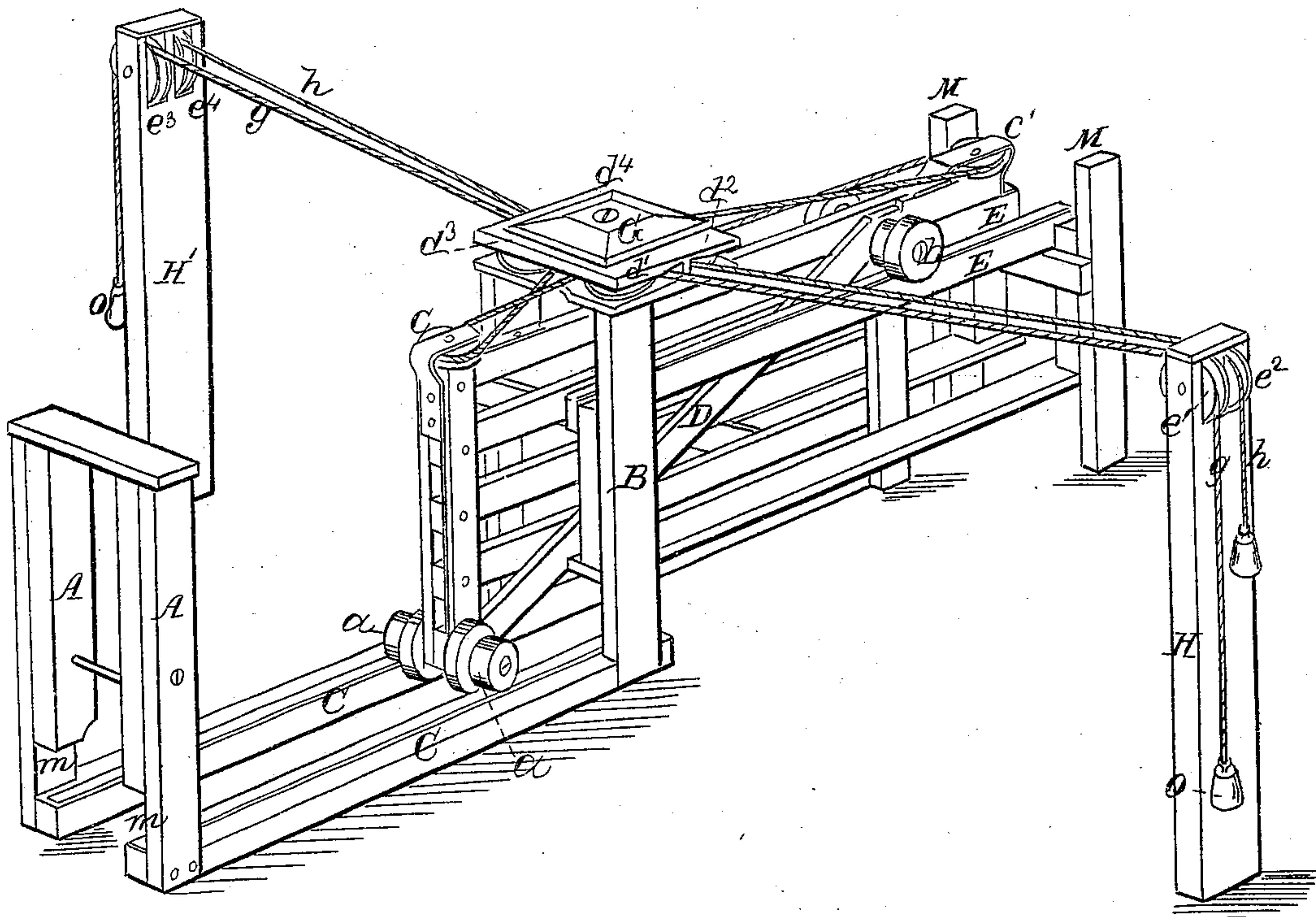


*T. Ellison,
Gate.*

No. 92,805.

Patented July 20, 1869.



Witnesses.

*R. A. Radabaugh
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Inventor:

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Attys*

United States Patent Office.

THOMAS ELLISON, OF ABINGDON, ILLINOIS.

Letters Patent No. 92,805, dated July 20, 1869.

IMPROVEMENT IN SLIDING FARM-GATE.

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, THOMAS ELLISON, of Abingdon, in the county of Knox, and State of Illinois, have invented a new and improved Sliding Gate for Farms and other purposes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to a sliding gate, so arranged that a person in a vehicle or on horseback can open and close it without dismounting.

The accompanying drawing represents the gate open.

A represents the latch-post of the gate, which is connected with the post B by means of the tracks C C.

D is the gate, which, when open, as shown in the drawing, runs through the post B, in between the guard-rails E.

The foot of the gate is provided with the flanged rollers *a a*, which run on the tracks C C, and the shoulder of the gate is provided with the flanged rollers *b b*, which run over the upper guard-rail E.

The top rail of the gate is made to extend some distance beyond the back of the same, to admit of the back end of the gate passing in between the sides of the post B, and is provided at both ends with the pulleys *c* and *c'*, placed flat upon its top.

The cap G of the post B is provided, at its corners, with the pulley-wheels *d¹*, *d²*, *d³*, and *d⁴*.

H and H' represent the operating-posts. These posts are placed on each side of the gate, at a proper distance therefrom, and are provided, at their top, with the pulleys *e¹*, *e²*, *e³*, and *e⁴*, placed perpendicularly therein.

g and *h* represent the operating-ropes or chains, and *o* their knobs.

The operating-chain *g* (by means of which the gate is opened) runs over the pulley *e¹*, in the operating-post H, and around the inside of the pulley-wheel *d¹*, in the cap G, thence forward and around the pulley *c*, on the front end of the top rail of the gate, thence back and around the pulley-wheel *d³*, in the cap G, and thence on and over the pulley *e³*, in the operating-post H'.

The operating-chain *h* (by means of which the gate is closed) runs over the pulley *e²*, in the operating-post H, and around the pulley-wheel *d²*, in the cap G, thence backward and around the pulley *c'*, on the back end

of the top rail of the gate, thence forward and around the pulley-wheel *d⁴*, in the cap G, and thence on and over the pulley *e⁴*, in the operating-post H'.

The front ends of the guard-rails E are attached to and supported by the post B, and their back ends by the posts M M.

The operating-chains *g* and *h* may be enclosed in a box, if desired.

The lower ends of the sides of the latch-post A are recessed, as shown at *m*, to admit the flanged rollers *a a*, on the foot of the gate, passing in between the sides of said post.

The gate is operated as follows:

A person desiring to open the gate, on driving up to it pulls the opening-chain *g*, which, by means of the pulley-wheel *d¹* or *d³*, (according to the side from whence the gate is opened,) in the cap G, and the pulley *c*, on the front end of the top rail of the gate, opens the gate by sliding it back between the guard-rails E.

On driving through the gate-way, the gate is closed by pulling the closing-chain *h*, which, operating on the pulley-wheels *d²* or *d⁴*, and the pulley *c'*, in the same manner that the opening-chain *g* does on the pulley-wheels *d¹* or *d³*, and pulley *c*, slides the gate out again, thereby closing it.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a sliding gate, the construction, combination, and arrangement of the posts A and B, tracks C C, and guard-rails E, in the manner shown, and for the purposes described.

2. The gate D, with its top rail projecting as shown, and provided with the pulleys *c* and *c'*, for the purposes herein set forth.

3. The cap G of the post B, provided with the pulley-wheels *d¹*, *d²*, *d³*, and *d⁴*, arranged as shown, and for the purposes described.

4. The arrangement of the operating-chains *g* and *h*, as herein shown, and for the purpose described.

In testimony that I claim the foregoing invention, I have hereunto set my hand, this day of December, 1868.

THOMAS ELLISON.

Witnesses:

STEPHEN MYERS,
WM. H. WHITAKER.