S. H. HEATWOLE.

Improvement in Railway-Gates.

No. 114,940. Patented May 16, 1871.

fig. 1

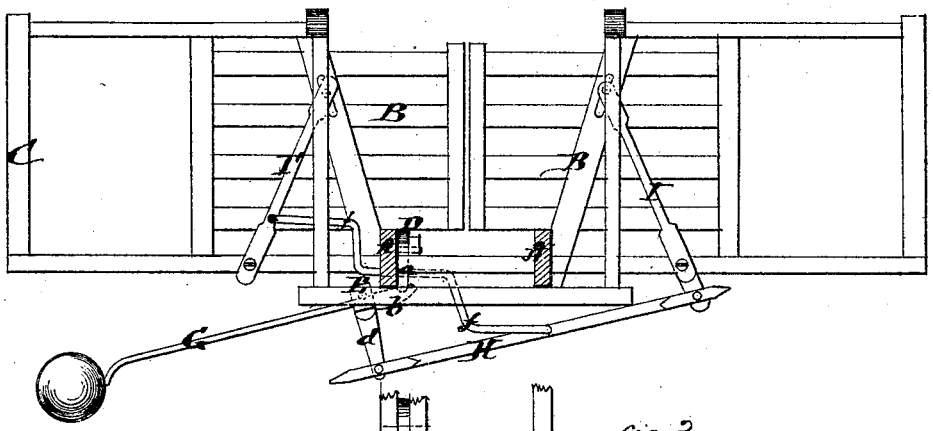
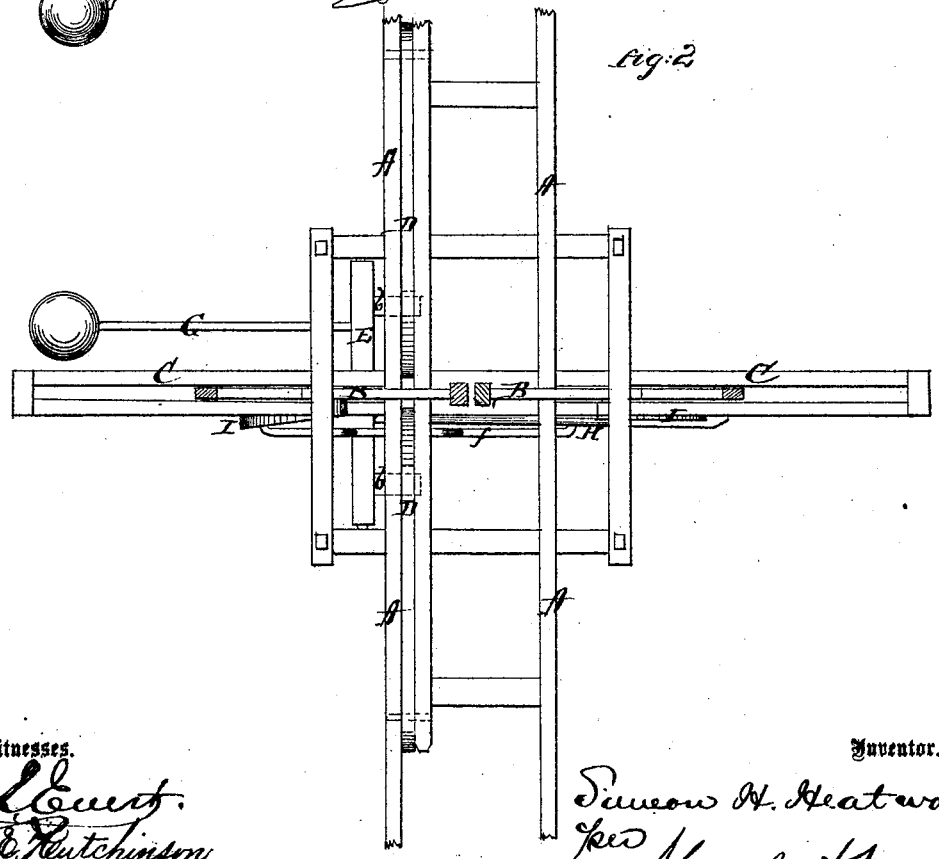


fig. 2



Witnesses.

Jas. E. Hutchinson

Inventor.

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United States Patent Office.

SIMEON H. HEATWOLE, OF BRIDGEWATER, VIRGINIA.

Letters Patent No. 114,940, dated May 16, 1871.

IMPROVEMENT IN RAILWAY GATES.

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, SIMEON H. HEATWOLE, of Bridgewater, in the county of Rockingham and in the State of Virginia, have invented certain new and useful Improvements in Railroad Gate; and 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 making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "railroad gate," 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 side elevation, and

Figure 2 a plan view.

A A represent the rails of the track, and

B B the gates, which move in frames or guides C C crosswise over the track.

Along the inner side of one of the rails A are laid two levers, D D, one on each side of the gate, said levers being pivoted at their outer ends, and free to move up and down at their inner ends.

On the under side of each of the levers D, near the inner end, is a projection, *a*, which rests in a groove or recess on an arm, *b*, extending from a rocking shaft, E, said shaft being placed under the track and parallel with it.

On the outer side of the rocking shaft E is a long weighted arm, G, which turns the shaft far enough so that the levers D D will be, for a certain distance from their inner ends, slightly above the track.

On the under side of the same shaft is another arm, *d*, to the lower end of which is pivoted a bar, H, which connects with the lower end of a lever, I, said lever being pivoted to one of the frames, C, and its upper end provided with a pin inserted in a slot on one of the gates B.

The other frame has a similar lever, I′, pivoted to it, and connected with the other gate in the same manner; and the lower end of this lever is, by a rod, *f*, connected with the connecting-bar H, as shown in fig. 1.

It will readily be seen that the weighted arm G throws the gates B B together, and, when any pressure comes upon either of the levers D, such as when cars pass over, when the flanges of the wheel will press the levers down, the gates are thrown open until the pressure is removed, when the weighted arm at once closes them.

Having thus fully described my invention,

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

The combination of the levers D D with projections *a a*, arms *b b*, shaft E, weighted arm G, arm *d*, bar H, rod *f*, levers I I′, and the gates B B with the track A, all constructed, arranged, and operating substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of March, 1871.

SIMEON H. HEATWOLE.

Witnesses:

EDM. F. BROWN,

C. L. EVERT.