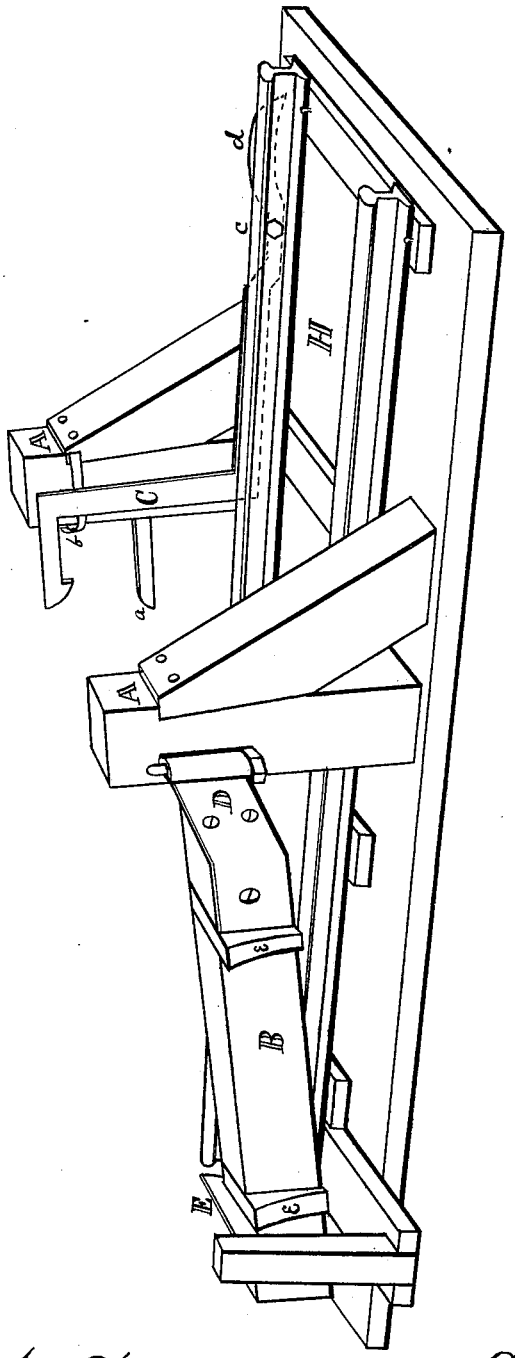
C. S. CHACE.
Automatic Railway-Buffer.

No. 197,248 Patented Nov. 20, 1877.



Attest:

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UNITED STATES PATENT OFFICE.

C. SUMNER CHACE, OF EAST FREETOWN, MASSACHUSETTS.

IMPROVEMENT IN AUTOMATIC RAILWAY-BUFFERS.

Specification forming part of Letters Patent No. **197,248**, dated November 20, 1877; application filed October 1, 1877.

To all whom it may concern:

Be it known that I, C. SUMNER CHACE, of East Freetown, in the county of Bristol and State of Massachusetts, have invented a new and novel Automatic Railroad Safety-Beam, which invention is fully set forth in the following specification and accompanying drawing, which is a view, in perspective, of a section of railroad with my automatic safety-beam thrown open, so as to allow the cars to pass.

The object of my invention is to furnish a safety-beam which will operate automatically when cars are shunted upon a siding.

In the drawing, H represents a section of railroad, on each side of which are erected the braced posts A A, to one of which is attached the beam B by the hinge D. The opposite post is furnished with the guide-pin *a*, the spring *b*, and the lever-catch C. The guide-pin *a* serves to guide the beam B to and support it in place when closed. The spring *b* serves to hold the lever-catch C up when raised, and also to throw the beam B open quickly when released by the lever-catch C, which catch extends along the rail in the direction shown by the dotted line, and is pivoted to the rail at *c*, being furnished with the curved end *d*, which rises slightly above the rail, so as to be borne upon by the tread of a car-wheel passing over it.

The beam B is furnished with the blocks *e e*, which are to bear against the tread of the car-wheels, so as to prevent the flange of the wheels from cutting into the beam.

When cars are shunted upon the side track the wheels pass over and press upon the lever-catch at *d*, which raises the catch C from the beam B, when the spring *b* acts upon it to throw it open to its fullest extent, where it is held by the gravity-catch E.

The posts A A are set at an angle, so that the beam B may be accelerated by its own gravity in opening.

To close the beam, the gravity-catch E is raised, and the beam B is thrown around against the post A, when it bears against the spring *b*, which releases the lever-catch C, when it falls of its own gravity, and catches over the beam B.

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

The hinged beam B, provided with the blocks *e e*, in combination with the posts A A, the lever-catch C, the spring *b*, and the guide-pin *a*, when arranged and operating for the purpose herein shown and described.

C. SUMNER CHACE.

Witnesses:

WM. H. HAMMOND,

A. EDWIN CLARKE.