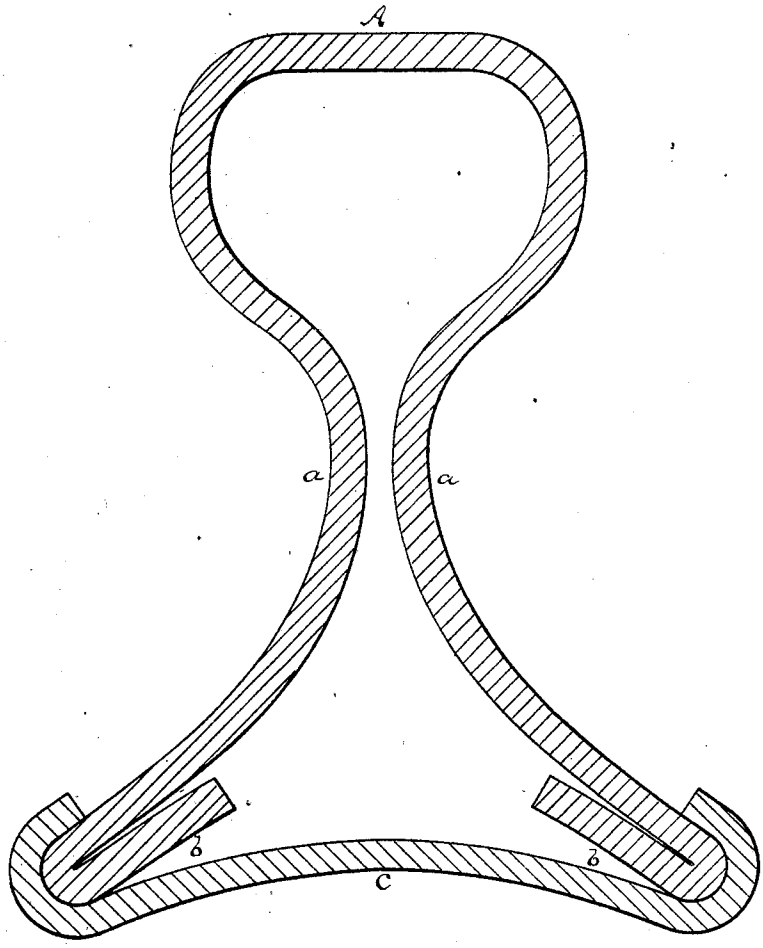
RUFUS S. SANBORN.

Improvement in Railway Rails.

No. 121,732. Patented Dec. 12, 1871.



Witnesses.
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Inventor.
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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

RUFUS S. SANBORN, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN RAILWAY RAILS.

Specification forming part of Letters Patent No. 121,732, dated December 12, 1871.

To all whom it may concern:

Be it known that I, RUFUS S. SANBORN, of Rockford, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Railroad Rails; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawing, in which the figure is a cross-section of a rail illustrating my invention.

This invention is an improvement on the rail for which Letters Patent have been granted me; and consists in making the elastic base of the rail described in said Letters Patent of a separate curved plate of metal, whereby the manufacture of the rail is greatly facilitated. I have found that there is a practical difficulty in the manufacture of the elastic rail described in my patent hereinbefore referred to, arising from the weld required at the joint at the bottom of the rail. I have remedied this evil by providing the arched or curved base, which is secured to the body of the rail by a lap-joint or otherwise, as found desirable.

Referring to the drawing illustrating the invention, A may designate the body of the rail, made of plate-steel, curved at its neck *a a* so as to yield there to the pressure of a passing train, and having its ends *b b* bent over, as shown, to strengthen them. *c* is the base, made also of plate-steel or other metal, curved or arched, as shown, and attached to the body of the rail by a lap-joint or otherwise, so as to allow a slight freedom of motion to the body of the rail when a heavy pressure is upon it. The rail thus constructed is to be secured to the ties in any of the well-known ways. The body of the rail will be found to possess all the advantages of my former invention with the additional advantages accruing from the improved method of manufacture, by which the long welded joint is avoided.

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

An elastic railroad rail provided with a separate elastic base united to the body of the rail in the manner specified, and for the purpose set forth.

The above specification of my said invention signed and witnessed at Washington this 28th day of July, A. D. 1871.

RUFUS S. SANBORN.

Witnesses:

EDM. F. BROWN,

CHAS. F. STANSBURY.

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