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T. R. TIMBY.

Improvement in Construction of Railways.

No. 122,682.

Patented Jan. 9, 1872.

FIG. 1.

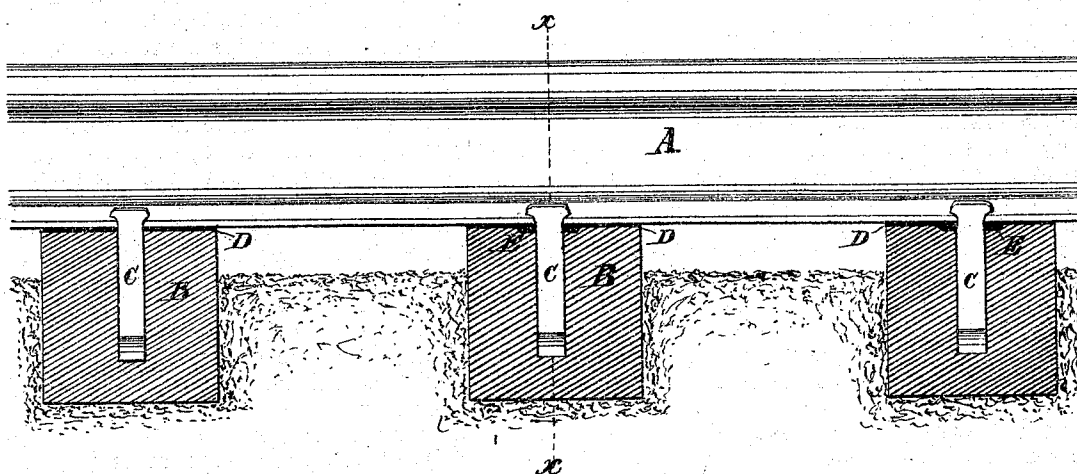
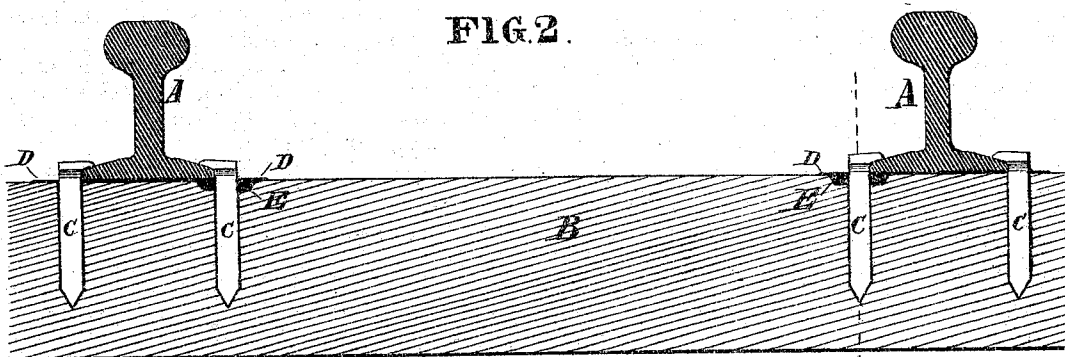


FIG. 2.



ATTEST.

Geo L. Win
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INVENTOR.

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UNITED STATES PATENT OFFICE.

THEODORE R. TIMBY, OF TARRYTOWN, NEW YORK.

IMPROVEMENT IN CONSTRUCTION OF RAILWAYS.

Specification forming part of Letters Patent No. 122,682, dated January 9, 1872.

Specification of certain Improvements in the Construction of Railways, invented by THEODORE R. TIMBY, of Tarrytown, in the county of Westchester in the State of New York.

My invention relates to the application, employment, or use of coal, or pine tar, rosin, pitch, asphaltum, or some equivalent therefor, or any such substances combined, between the rails and ties and around the spikes, for the purpose of preserving the timber by excluding moisture and providing a more secure fastening for the rails. The invention further consists in forming on the surface of the ties cavities for the reception of a body of tar or analogous substance, as hereinafter explained. The invention consists also in driving railroad-spikes in a heated state through a body of tar applied upon the tie.

In the drawing, Figure 1 is a side elevation of a section of rail applied in accordance with my invention, the ties being shown in section. Fig. 2 is a vertical section transverse to the rails and longitudinally of the ties, at *x x*, Fig. 1.

The rails A, ties B, and spikes C may be of common form. D represents a body of tar, pitch, asphaltum, rosin, or other analogous material, applied between the rails A and the ties B, and also around the spikes C, to prevent the absorption or retention of water at those points. For this purpose I have used various materials separately and in combination; and, to more effectually prevent the lodging or ingress of water around the spike, I make cavities E in the surface of the tie where the spikes are to be driven, fill these cavities with the bituminous or other suitable material,

and heat the spikes before driving them, so that they will melt the said material and carry a portion of it down into the wood.

I have applied my invention in various ways, as, for example—first, with a cavity filled with pine-tar; also, hot pine-tar under the rail; second, with a cavity filled with coal-tar, and with pine-tar under the rail; third, with a cavity filled with a mixture of coal and pine-tar; fourth, filled round the spike with hot rosin—pine-tar under the rail; fifth, cavity filled with pine and coal tar under the rail; sixth, hot rosin around the spike, and coal-tar under the rail; seventh, mixture of coal and pine tar under the rail and around the spike; eighth, coal and pine tar under the rail; ninth, coal and pine tar and asphaltum under the rail and around the spike.

I claim as my invention—

1. A body of tar, pitch, rosin, or analogous material applied between railroad rails and their ties, and also around the spikes, for the purpose of preserving the timber by excluding moisture.

2. I claim the cavities E surrounding the spikes C, in combination with a body of pitch or its equivalent, occupying said cavities, as and for the purpose set forth.

3. I claim as an improvement in the construction of railways, driving the spikes in a heated state into the ties through a body of tar or analogous material.

THEODORE R. TIMBY.

Witnesses:

A. C. WILEY,
OCTAVIUS KNIGHT.

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