C. C. Converse,

Hose Bridge.

No. 86,508. Patented Feb. 2. 1869.

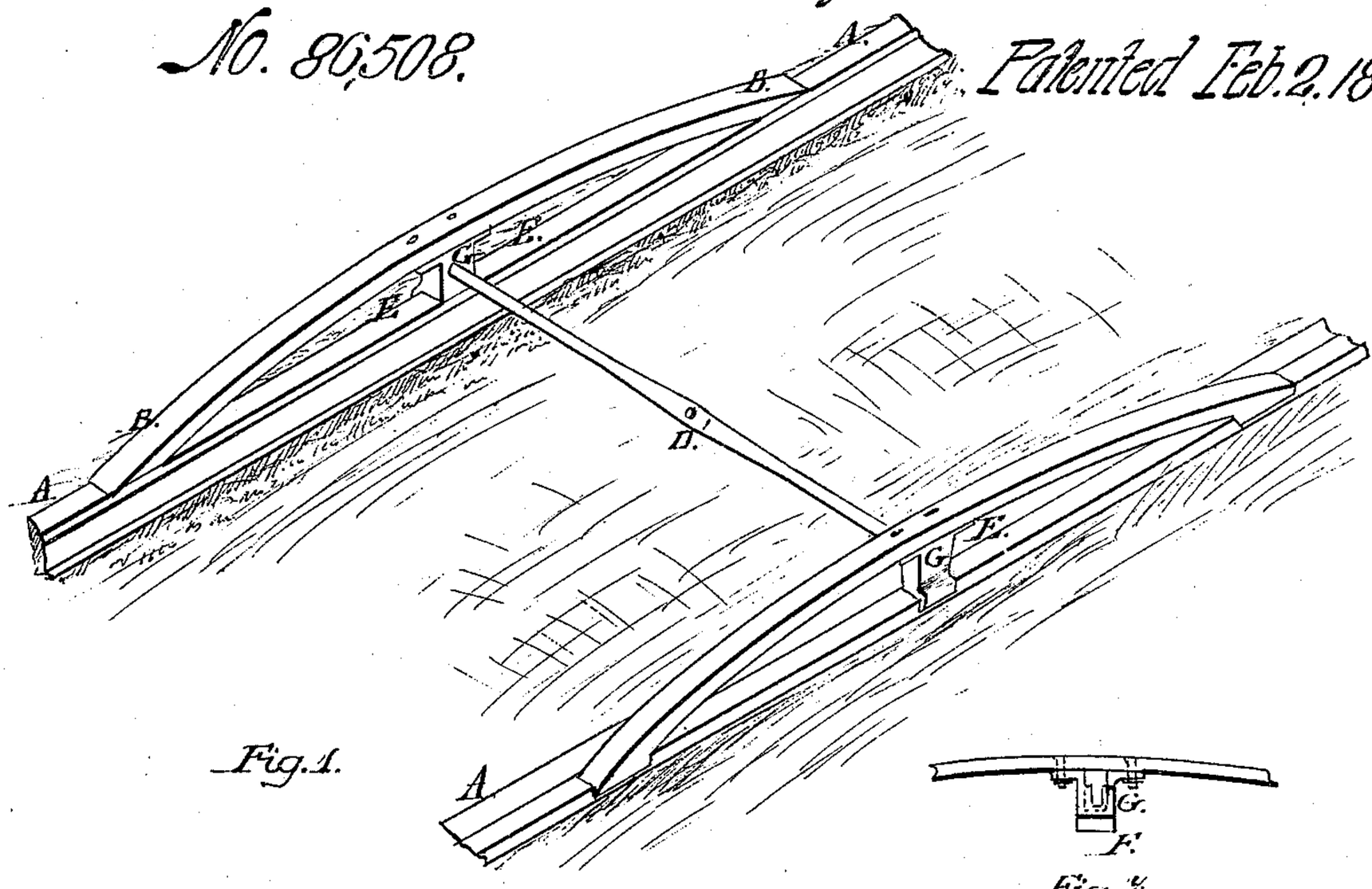

Fig. 1.

Fig. 3.

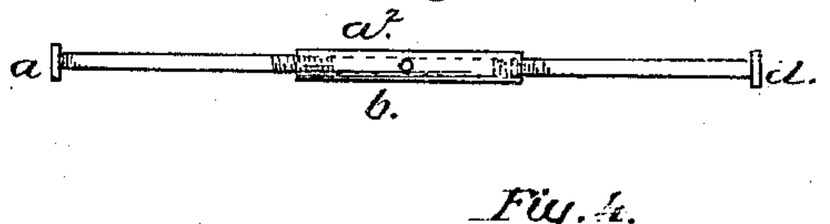

Fig. 4.

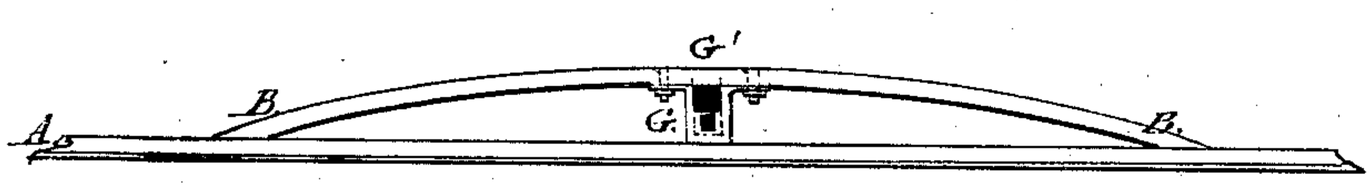

Fig. 2.

Witnesses:
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CHARLES CROZAT CONVERSE, OF BROOKLYN, NEW YORK.

Letters Patent No. 86,508, *dated February* 2, 1869.

IMPROVED HOSE-PROTECTOR.

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, CHARLES CROZAT CONVERSE, of the city of Brooklyn, county of Kings, and State of New York, have invented a new and improved Mode of Protecting Fire-Hose, when placed across a railway, so as to permit of the passage of cars over the same; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawing as a part of this specification.

The nature of my invention consists in forming two inclines or arches, of iron or other suitable material, with an upright in the centre of each, to support and strengthen the same, and with a bar to connect them, said bar screwing into the uprights, so as to adjust the arches to a rail-track, and attach them thereto.

Said arches may be formed from a bar of metal, bent so as to present a curved appearance.

At or near the ends of said bars, a flange should be set out, so that, when the arch is placed on the rail-track, said flanges will extend down the side of the rail, and serve to maintain the arch thereon.

In the centre of said arch, a metal or other upright should be attached by bolts, rivets, or other means, said upright being threaded, for the entrance of the connecting-bar, or slotted therefor, said upright also being provided with a flange on its lower edge, to project outside the rail.

The arches should be so formed as to allow space for fire-hose between them and the rail-track on which they are placed.

Said arches may be made of plates of wood, metal, or other material, with perforations at the sides, for the passage of the hose through them.

The connecting-bar may be made in one piece, with a screw-thread at each end, to screw into the uprights; or, it may be made in two pieces, with a T-end, and with a centre-piece, made of pipe or other material, threaded, so as to receive an end of each of the sections of said bar, which should be constructed so as to screw therein.

The ends of the arches are forged or shaved thin, so as to fit closely to the track, and allow a car to pass over without jolting.

The accompanying engraving presents my invention in combination and detail.

Figure 1 represents my invention when placed on a rail-track ready for use.

Letters A A show said track.

Letters B B show the arches.

Letters G G show the uprights.

Letter D shows the connecting-bar.

Letters E E show the spaces between the arches and the rail-track, through which the hose may pass.

Letter F shows the flanges projecting from the arches and uprights.

Letter D′ shows a hole in the connecting-rod, for the insertion of a lever, with which to screw said rod into the uprights G G.

Figure 2. Letters A A show the rail-track.

Letters B B show the arch.

Letter G shows the upright, prepared with a slot, G′, to receive a T-ended connecting-bar.

Figure 3 shows a section of the arch, and

F shows the flange of the upright.

Figure 4. Letters a a^1 show the T-ended connecting-bar.

Letter a^2 shows the centre-piece of the same.

Letter b shows a hole, for the insertion of a lever, to screw the said bar.

When a fire occurs which necessitates the placing of fire-hose across a rail-track, I proceed to use my invention as follows:

First, I place the two arches forming it on opposite rails of the track, so as to cover the hose thereon.

Second, I insert the ends of the connecting-bar either into the sockets or slots in the uprights, as the case may be.

Third, I insert a small lever into the hole in the centre of the connecting-bar, and turn the same until the whole apparatus fits tightly to the rails.

The use of my invention will obviate present hindrances to railway-travel upon the occasion of fires. Its construction is such as to permit of it being carried within a rail-car, and be put in operation in a very short space of time.

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

A hose-protector, composed of the arches B B, flanged upright G, and flanges F F, in combination with the coupling-device a a^1 a^2, substantially as and for the purpose specified.

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