

R. C. SCHENCK, Jr.
Links.

No. 151,718.

Patented June 9, 1874.

Fig. 1.

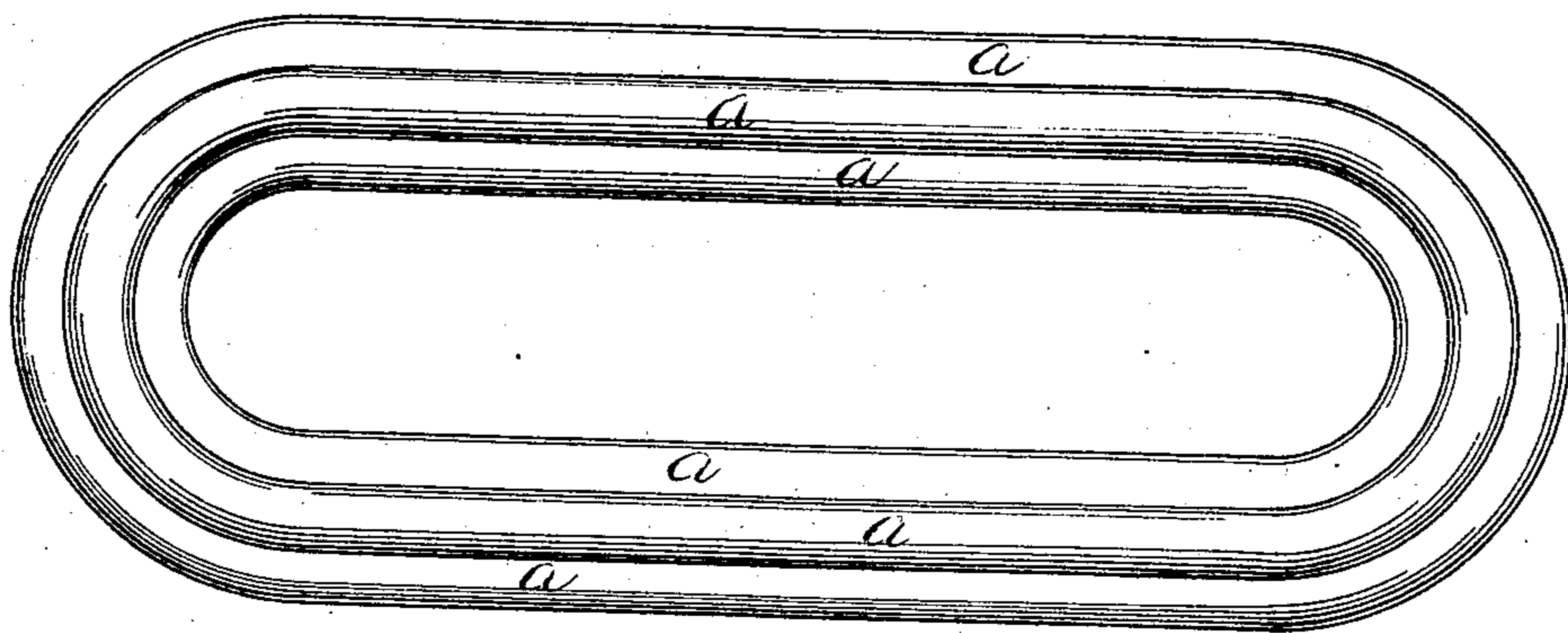
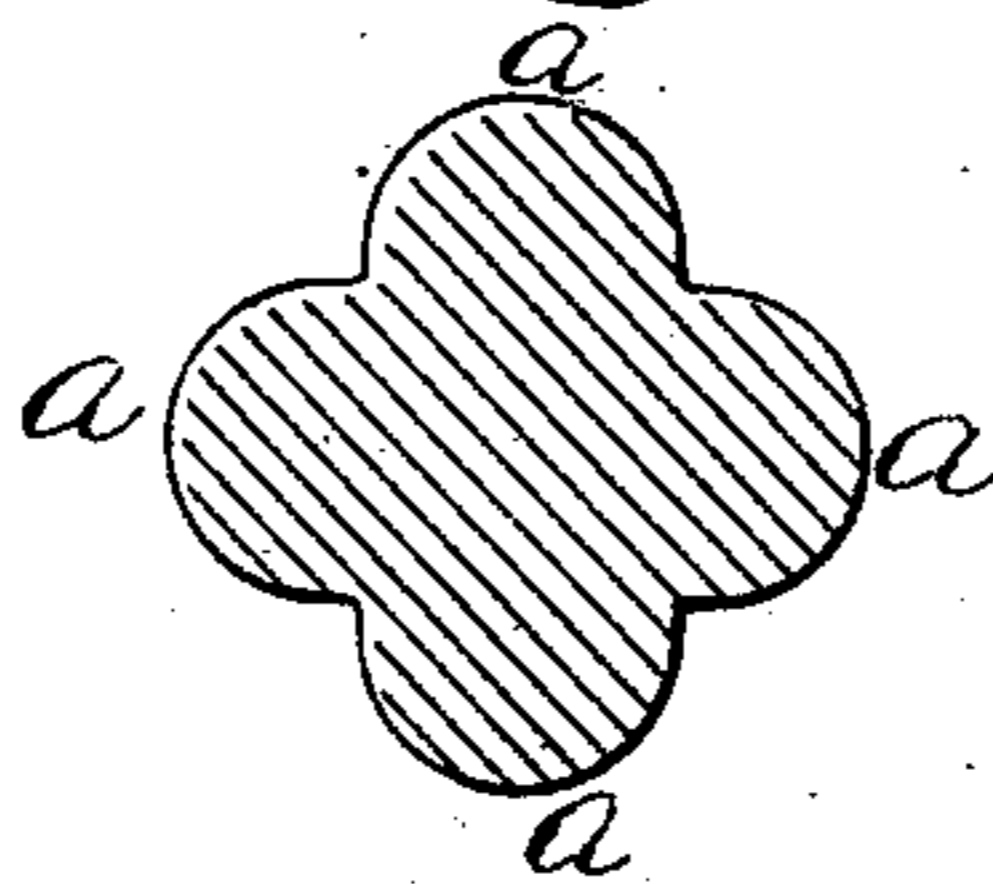


Fig. 2.



Attest.

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UNITED STATES PATENT OFFICE.

ROBERT C. SCHENCK, JR., OF DAYTON, OHIO.

IMPROVEMENT IN LINKS.

Specification forming part of Letters Patent No. 151,718, dated June 9, 1874; application filed May 8, 1874.

To all whom it may concern:

Be it known that I, ROBERT C. SCHENCK, Jr., of Dayton, county of Montgomery and State of Ohio, have invented certain Improvements in Links, of which the following is a specification:

My invention relates to links, made of iron or other suitable metal, for coupling together railroad vehicles, or to be used in the construction of chain-cables; and consists in the formation of cords or flutings upon the surface of the metal of the link, so as to give to the same greater elasticity and lightness than the links now in use possess, without additional expense.

In the accompanying drawings, Figure 1 exhibits the link as seen from above. Fig. 2 exhibits a cross-section of the link.

The cords or flutings are seen in both figures, as *a a a a*.

It is an admitted principle that the surface of rolled metal has much greater strength than the center, the direct action of the rolls adding toughness to the fibers of the metal. It is also well known that the links which couple railroad-vehicles, and particularly the sides of such links, are subjected to intense strains, especially at the starting of the train. Chain cables are often subjected to similar strains.

By the use of my invention, I get more sur-

face with the same diameter, and thus greater strength with less weight, than in the ordinary link. The link is as much lighter than one made in the ordinary way as the weight of the metal removed from between the cords, while the saving in metal will more than pay the small extra cost of manufacture. As a net result I obtain a link of much greater strength, less weight, and cheaper than the links now in use.

The cords may be formed in the metal of which the link is constructed by the ordinary process of rolling. The number and size of the cords may be varied according to the use to which the link is to be applied, or the convenience of the manufacturer.

As the ends of the links are less exposed to severe strains than the sides, it is only material to my invention that the metal forming the sides of the links be fluted. The ends may or may not be fluted, as preferred.

What I claim as my invention is—

A link having its surface fluted, for the purpose of giving greater strength and elasticity to the link, substantially as described.

ROBERT C. SCHENCK, JR.

Witnesses:

JAS. McLAIN SMITH,
SAML. B. SMITH.