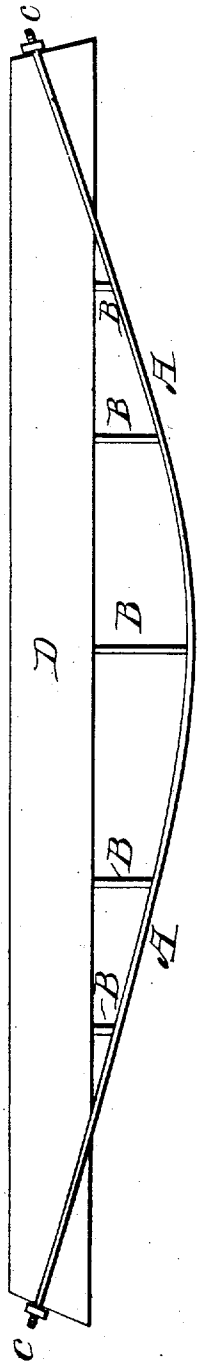
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R. I. L. WITTY.

CONSTRUCTION OF BRIDGES.

Patented Oct. 14, 1835.



THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

Oct. 14. 1835 9172X 89

Richard J. L. Willy. Lowell. and State of Massachusetts

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Richd. J. L. Willy himself of his improvement in the construction of Bridges &c.

To all to whom these presents shall come. Be it Known that I Richard J. L. Willy of the Town of Lowell, in the County of Middlesex and State of Massachusetts have invented a new and useful improvement in the construction of Bridges over Rivers and canals and also for the forming of viaducts for Rail ways. Piers for Locks or Harbours, and Public Buildings. And I do hereby describe the nature of my said invention for such purposes. In order to produce a Bridge, I combine the lateral Chords of a Beam to the catenary curve which said curve may be formed of rods of wrought iron or other metal and of chain or rope &c. But I prefer rods of wrought iron. The curve of iron must be stretched from end to end of a beam of wood, and firmly bolted thereto and resting over Stanchions or other supports of wood or iron, fastened to the beam, which said supports may be placed at suitable distances under the beam to form the catenarian curve, and the more firmly to retain it in its place. By this arrangement a very considerable strength of beam may be obtained for the making of Bridges over Rivers, Canals &c and for the formation of viaducts to carry over Rail ways in the construction of Piers for Locks or Harbours and for Public Buildings, where considerable extent of Beam may be required and for other purposes.

What is claimed as the invention, improvements or methods of making Beams sufficiently strong for the formation of Bridges so as to extend them over Rivers of great width &c and by Heading the said beams with iron Shields for that purpose, and to hold firmly the iron Rods.

Witnesses
Thomas Johns
Henry Bishop

Richd. J. L. Willy

Patented 14th Oct. 1835.

Sworn to
14th

(390 words)