RAILWAY BRIDGE AT NIAGARA.

This great work, which is to unite the United States with Canada by a railway, is rapidly proceeding under the superintendence of Mr. John A. Roebling, an engineer favorably known in connection with the suspension bridges at Peoria, Chicago, Pittsburgh, and a suspension bridge over the Monongahela, near the same place. As it is one of the most remarkable engineering achievements in the world, we shall be justified in devoting considerable space to a description of its plan and prospects. It is well known that Stephenson, the Magna Apollo in engineering, has been engaged on his Tubular Bridge over Menai Straits, has decided against the suspension principle as applied to this bridge, and for the reason that it is incapable of rendering them sufficiently stiff. The successful construction of canals, as at Washington, at Montreal, will make an era in bridge building. It will be doing what has not merely never been done before, but what has been pronounced by the highest authority impracticable.

The present suspension-bridge, having been opened in 1847, is in the execution of the railway bridges, will be removed after performing that service. It was begun on the American side, at Lewiston, and, having its Tubular Bridge over Menai Straits, has decided against the suspension principle as applied to this bridge, and for the reason that it is incapable of rendering them sufficiently stiff. The successful construction of canals, as at Washington, at Montreal, will make an era in bridge building. It will be doing what has not merely never been done before, but what has been pronounced by the highest authority impracticable.

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