tions and wing-arcs, beams or ties and diagonal braces are laid and let into each other, in the form of lattice-work, and the whole firmly connected with the arcs by iron bolts with screws going through them at the distance of every eight feet.—Thus they are made to form one entire connected arc, which can neither admit of any sideways or intestine motion between the sections, nor be readily injured or endangered by high winds.

The platform on which the travelling is performed is suspended from these arcs, by means of iron chains or links, which hook into the eye-bolts, firmly fixed through the arcs, at the distance also of every eight feet, in the three middle sections, and sixteen feet in the two exterior ones. To the lower ends of these chains is appended a stirrup, in which the beams lay, which sustain the joists and flooring. To prevent the platform from having any swinging motion, wing-chords and diagonal braces are again interposed, which effectually perform this service.

The expansion of the arcs (were not the solidity and weight of the piers and abutments of themselves sufficient) is completely guarded against by the intervention of wooden chords, which embrace and