

one system of triangles, two systems are introduced, complete and independent of each other, each one being

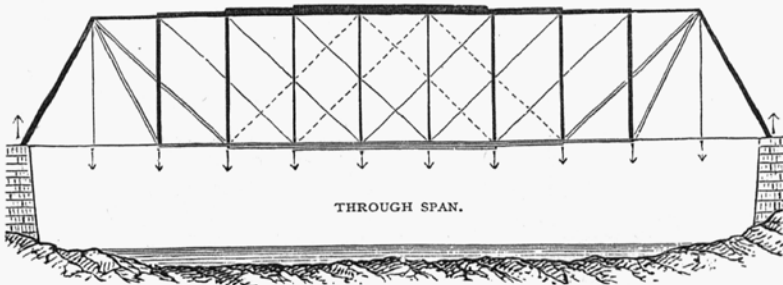


FIG. 9. DOUBLE CANCELLED WHIPPLE TRUSS.

formed of triangles having bases of two panel-lengths. The principle of the Queen Post still holds good as before, as it would do if there were three or more series of triangles, each series doing its own work in transmitting the loads to the abutments, independent of any other. The truss illustrated in Fig. 9 is known as the double cancelled Whipple or Quadrangular truss, and has been used in spans of over 400 feet.

Fig. 10 appears, at first sight, a greater variation from the elementary truss form previously described

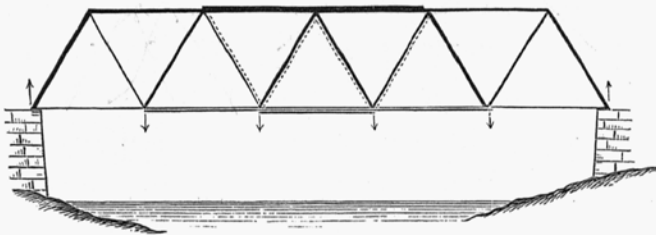


FIG. 10. SINGLE TRIANGULAR OR WARREN TRUSS.

than is really the case. The principle of the triangle being here developed to its utmost perfection, this form