The expense of a double lock splice (Fig. 57), will be about 7 cubic ft. of waste timber,...... $3.50
40 lbs. of iron bolts, washers and plates,..... 2.80
Labor in fitting the timbers, say,.............. 1.

Total,.......................................... $7.80.

showing the shackle connection to be from 4 to 5 dollars the more expensive.

CONSTRUCTION OF WOODEN TRUSSES.

CLVII. With a thorough comprehension of the power of timber to resist the various kinds of strain to which it may be liable in bridges, and other timber structures, and of the general principles of forming connections in timber work, as attempted to be explained and set forth in the last few preceding pages; and a knowledge of the general forms of arrangement for the several members in bridge trusses, or girders, and of the manner of computing the stresses to which the several parts are liable to be subjected, as treated of in the first 100 pages or so, of this work, the details of practical construction of wooden truss bridges may be intelligently entered upon.

Nothing more elaborate will be here undertaken, than a reference to general forms of trussing suitable for wooden bridges of different spans, and a description of what seem to be the most feasible methods of forming connections at peculiar and specific points.

The method pursued will be, to proceed from the shorter spans, and more simple combinations, to structures of greater length, and requiring a greater number and a more complex arrangements of parts.