

Iron Bridges

LW Dampf

Augustus Comfeld 29th June 1833 patented a bridge, what is held to be the first iron bridge patented in this country

J L Witty Oct 14 1835 earliest patent for a trussel beam

Squire Whipple Apr 24 1841 patented a modification of an iron arch (Whipple's bowstring) a large number of which were built being 100' span & 12 1/2' rise - adjustments by nuts - even in draw chord. He afterwards introduced the form general known as the Whipple a trapezoidal tower with parallel chords & inclined end posts - He used turned cast iron posts, links & trammers

Lattice bridges - Abt 1-1824 George Cluett patented a wrought iron lattice bridge in England & in 1843 Sir John MacNeill erected one of iron & girder of wrought iron of 84 ft span

Nathan Pades of Mass Nov 26 1845 invented an iron lattice truss upper chord & posts of cast iron see Dampf bridges

First iron boiler plate tubular girder built at Bolton Depot in winter of 1846-7 several years prior to the completion of the Conway bridge in England

Wendell Bollman Dec 6 1852 Patent - Hooker's Ferry bridge 124' span 17'-6" deep finished in June 1852

Albert Fink patent May 9 1854 ^{although his} bridges in use some years before. One of the first of this kind over the Monongahela river in B & O RR in 1851-2 Chords & posts cast iron

Sturdeville bridge partially completed in 1856, when work was suspended until 1862 - eight tiers of patented ^{what} eye-bars

L. C. Park & they are fine connected pins 4 1/2" dia N.E. cast iron. Right cast iron & turned. Dry ties eyes below & some adjacent at top. Channel open erected in 1865

Does in mind limited facilities in the early days as to forms & sizes of rolled iron