track iron bridge across the Little Lehigh at Allentown. These spans were exactly similar in design and construction, as the span before referred to erected in '58 and '59. In none of these structures were the eyes of chord links or diagonals bored out. In 1863 Mr. Murphy designed and D. Stone erected for our Company a span of wrought iron bridge across the canal and four spans across the river at Mauch Chunk. The leaning columns and top chords of these structures were composed of beams rolled of different thickness. Toward the centre he used four beams with spacing thimbles between; nearer the ends he used two beams with cast iron cross bracing between; the beams were machine squared at ends and rested against cast iron foot shoes, elephant heads and joint blocks; the posts were of light beams reinforced where necessary by riveting on plates. These were among the first bridges built with wrought iron top chords. Murphy was a disciple of Whipple and named his designs the Murphy-Whipple Truss. The first iron bridge built by Murphy in this part of the state was across the Saucon Creek for a branch of the North Penna R. R. This bridge was the Whipple design, cast iron leaning columns, top chord and posts with cast trunnion on which the posts set and the links took hold of, the links were open the full length of the panel. This bridge has been unused for many years, but is standing intact and is a good specimen of the Whipple bridge.

While on the subject of iron bridges I send herewith my