III. The cable wire and method of working it into a cable.

1. The material and its treatment.
2. Regulation of wires and strands.
3. The wrapping of the cable.

All under heads I and II must be completed before cable-making can begin. The work at the East River Bridge was commenced on Dec. 28, 1869, when ground was broken for building the caisson for the Brooklyn tower foundation.

In August of 1876, after various interruptions, towers and anchorages were completed, and the first rope (one of the traveling ropes) was taken across the river. During the previous winter all machinery pertaining to traveling ropes, etc., was erected on the Brooklyn anchorage. Building cradles and footbridge, suspending the guidewires and other preparations required three-quarters of a year longer, until on May 29th, 1877, the first wire for actual cable-making was stretched. It is estimated, that it