fixed order, and are regulated among themselves in shortening the longer ones by the insertion of an iron segment between shoe and anchor pin. All cables of the large suspension bridges, built so far, never contained more than seven strands; these of the East River Bridge are the first, which will be formed of nineteen strands. The number 7 or 19 is chosen, for the reason, that the cable shall form a cylinder and a section through it shall reveal the strands in an order, that a circle can be drawn around them as tangent, (see Fig. 5.) Between 7 and 19 there is no number, which makes this possible.

After all the strands are regulated, the temporary lashings, which held the wires together, are removed, powerful screw squeezers press them in cylindrical shape, and a wrapping of No. 10 wire is put on, which finishes the cable. Figs. 1 and 2 show the position of cradle ropes, cradles and foot bridge, in elevation and ground plan; also the position of the wire-drums, anchor links, working rope