by means of wrought-iron sockets and screw stirrups, similar, only differently proportioned, to the connection shown in Fig. 21 and 22.

3. The Footbridge.—The footbridge has no direct service in cable making, but its indirect values are so great, that for the manufacture of large cables its erection may be deemed an absolute necessity. All the footbridges used by the late Mr. Roebling were built after the general plan of suspension bridges, namely, they consisted of a platform suspended from two cables. The writer of this, while working out the plans, suggested laying a platform directly on the cables, guided by the consideration, that a bridge parallel with the strand would enable the regulator to sight it at all points, that access to the cradles would be easy and that it would form a stiffer platform, which probably would suffer less under the violence of terrific gales, which rage almost weekly on the East River. Partially by these reasons, but especially for the accommo-