**Warping-machine.** (Weaving.) A machine for beamng, that is, laying flat and parallel on the yarn-beam the threads of which the warp is composed.

In that illustrated, the yarns, having been first wound from the spindles upon a cylinder, it is transferred to the frame b, its journals resting in bearings on the upright standards of the frame, and the sides of warp-threads pressing on the surfaces of two large anti-friction rollers beneath. The yarns divided into sets are passed between the teeth of the separator or reed e, and each thread is separately conducted between two adjacent teeth of a second reed d, and finally secured to the roller or yarn-beam e. This rota upon two rollers, caused to rotate in the same direction by gear-wheels engaged by an intermediate plod on the shaft of the pulley f; these carry round the yarn-beam, which withdraws the threads from the roller a, winding them upon itself; it is held down and its longitudinal motion prevented by two narrow rollers g g, which bear against a circular projection at each of its ends, and rotate on a common axis journal in standards upon the pivoted levers k k, which are weighted so that any requisite pressure may be given to the yarn-beam. These contrivances give the minimum amount of friction, equalize the strain, and lessen the danger of rupturing any threads. See also next article.