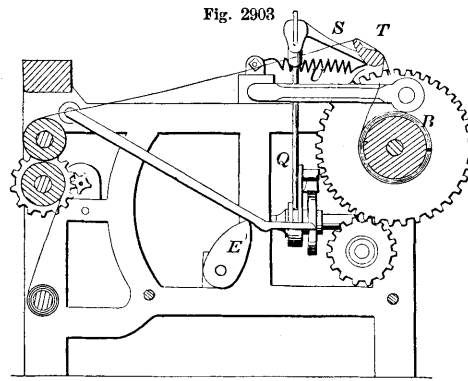


Let-off. (*Weaving.*) An arrangement in a loom by which the yarn is paid off from the beam at such a rate as it shall be required by the weaving-process, and which is dependent upon the rate of the *picks*,



the sizes of the warp and weft thread, the compactness with which it is beaten up by the lay. The *take-up* is the winding on to the *cloth-beam* of the completed web, and proceeds coincidentally with the *let-off* from the *yarn-beam*. Regularity of *let-off* is secured by making the rate of surface motion of the *yarn-beam* depend upon the tension of the yarn; and the rate of revolution of the beam, to secure equal speed of let-off, will become rapid as the bulk of yarn diminishes upon the roller. The devices for this purpose are numerous. In the example, the same cam *E* operates both the *take-up* and *let-off* devices; the strain of the yarn on the *whip-roll T* operates through the arm *S* and rod *Q*, pawls which act upon the ratchet by which the *yarn-beam B* is rotated.