The invention relates to the mechanical engineering, in particular to the precession gears.
The precession gear includes the teeth 1 of a curvilinear profile and the teeth 2 of an arched profile, executed in a satellite gear, installed on the crank 3 of the driven shaft. For the modification of the precession gear teeth profile, it is proposed a process for realization of such gear, wherein the tool 3, effecting the precession motion, is joined with the imobile part through the binding mechanism 4, receiving microdisplacements in the plane XY_1 from the cam 5 by means of a lever 6.
The result of the invention consists in increasing the bearing capacity of the gear and in expanding its technological possibilities due to the modification of the teeth profile with the modification controlled variable.