

The invention relates to mechanical engineering, namely to planetary precessional transmissions. The transmission, according to the invention, comprises a body (1), placed therein a satellite wheel (2) with two bevel gear rings (3, 4), a crankshaft (5) and two central bevel gearwheels (6, 7), immovable, rigidly connected to the cover of the body (1), and movable (7), connected to a driven shaft (8). According to the first embodiment of the transmission, the tooth meshing is made with a convex-concave contact of the tooth flanks with a small difference in the radii of curvature of the mating tooth profiles. The teeth of the central bevel gearwheels (6, 7) are made with a curved flank profile with variable curvature with the number of teeth ± 1 in relation to the number of teeth of the bevel gear rings (3, 4) of the satellite wheel (2), made with a circular arc flank profile. According to the second embodiment of the transmission, at least one of the bevel gear rings of the satellite wheel is made of tapered rollers with the number of rollers ± 1 in relation to the number of teeth of the central bevel gearwheel with which it meshes, at the same time the meshing is made with a convex-concave contact of the tooth and roller flanks with a small difference in the radii of curvature. The teeth and rollers of the satellite wheel rings are made with a circular arc flank profile.

Claims: 4
 Fig.: 19

