

97-0271

The invention relates to the machine building, in particular, to the transmission gears.

The reduction gear comprises a body, a drive shaft 7, a driven shaft 5, a fixed central wheel 3, two biring satellite gears 1 and 2, a biring gear cluster 6, installed onto the drive shaft 7 between the satellite gears 1 and 2. The satellite gear 1 is connected to the fixed central wheel 3 by means of a gear ring and the satellite gear 2 - to the central running wheel 4, installed onto the driven shaft 5. The other two gear rings of the satellite gears are in engagement with the gear cluster 6 rings.

The drive shaft 7 is made with two beads having inclined faces 8 and 9, each of which interacts with one of the satellite gears 1 and 2 faces. The drive shaft 7 faces slopes are equivalent and of different directions.

The technical result consists in reducing the axial thrusts generated in the engagement, as well as in excluding the scheme error, characteristic for the precessional motion of the satellite gears.