

The invention relates to the field of motor car construction, particularly to mechanical transmission devices.

The axial harmonic reducer includes a body (2), in which are made axial holes, placed round the circle, coaxial with the axis of the reducer, in each being freely installed pushers (3), one end of which is made in the shape of tooth. The reducer further contains a drive shaft (4) with a cam (5), on which is placed a sliding ring (6) with spherical sockets on the front side, axially fixed with a ring (7), as well as a driven wheel (1), made with the front gear ring, with which intermesh the teeth of the pushers (3), the opposite end of which is made spherical. On the cylindrical part of the pushers (3) is made an annular groove and a cut. The spherical ends of the pushers (3) are embedded into the spherical sockets of the sliding ring (6). The sliding ring (6) and the pushers (3) are fixed with a separator (8) so that together they form a flexible sliding gearwheel with sliding teeth. In the body (2) is fixed a polyhedral plate (9), each face of which is in contact with the cut of the pushers (3) to prevent their rotation. Between the cut of the pushers (3) and the faces of the polyhedral plate (9) is provided a clearance. The number of pushers (3) differs from the number of teeth of the driven wheel (1).

Claims: 1

Fig.: 3

