MD.8.	
Title	Increasing the competitiveness of precessional transmissions by developing and capitalizing on the gear with "conforming" contact of the teeth
Authors	Ion Bostan, Viorel Bostan, Maxim Vaculenco, Ion Bodnariuc, Valeriu Dulgheru, Sergiu Mazuru, Mihai Ţopa, Radu Ciobanu, Oleg Ciobanu, Nicolae Trifan, Malcoci Iulian, Dumitru Vengher, Serghei Scaticailov, Valeriu Odainâi, Victor Pavelco, Alina Bregnova, Vasile Muntean.
Institution	Technical University of Moldova
Patent no.	-

Creating contact between teeth with convex-concave geometry and small difference in curves. It was found that the absolute multiplicity of tooth engagement (100%) in compliance with the three defining conditions can occur only when using the variable convex / concave profile of the tooth flanks, usually the central wheels, depending on the values of conical axoid angles and notation the radius of curvature of the profiles of the teeth of the crowns of the satellite wheel, as well as the number of teeth of the Z wheels and their ratio.

The purpose of the stage:

Description

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- to identify the conditions for increasing the loadbearing capacity of the gearing A^{D}_{CX-CV} and $A^{D,b}_{CX-CV}$, and for decreasing the energy losses in the convex-concave contact of the multiparous teeth;

- determining the functional characteristics of the

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kinematic precessional transmissions with gearing A^D_{CX-CV} and identifying the technical solutions to increase them. The technical solutions mentioned above are the basis for the development of transmissions with precessional gearing. Implemented at laboratory level, prototype inside the

Technical University of Moldova.