



Title

LINEAR TUBULAR MOTOR WITH MODULAR CONSTRUCTION FOR DIRECT DRIVING VEHICLE ELECTRICAL POWER STEERING



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Patent/ Application number

Patent application OSIM: A/00260/14.05.2020



Short presentation

The linear tubular motor with modular construction for direct driving vehicle electrical power steering has simple parts. The stator modules are built up of ring type iron core pieces alternated by non-magnetic space holders. Round their yokes concentrated coils are wound, which are connected in series and form a phase of the motor. The mover is passive, and it is constructed by alternating ferromagnetic and non-magnetic rings.

The motor works upon the variable reluctance principle. By sequentially supplying its phases a bidirectional linear movement can be achieved.



Applicability

Due to its very simple but robust construction, this linear tubular motor with modular construction is an excellent solution for direct driving the electrical power steering system of any type of vehicle.



Images

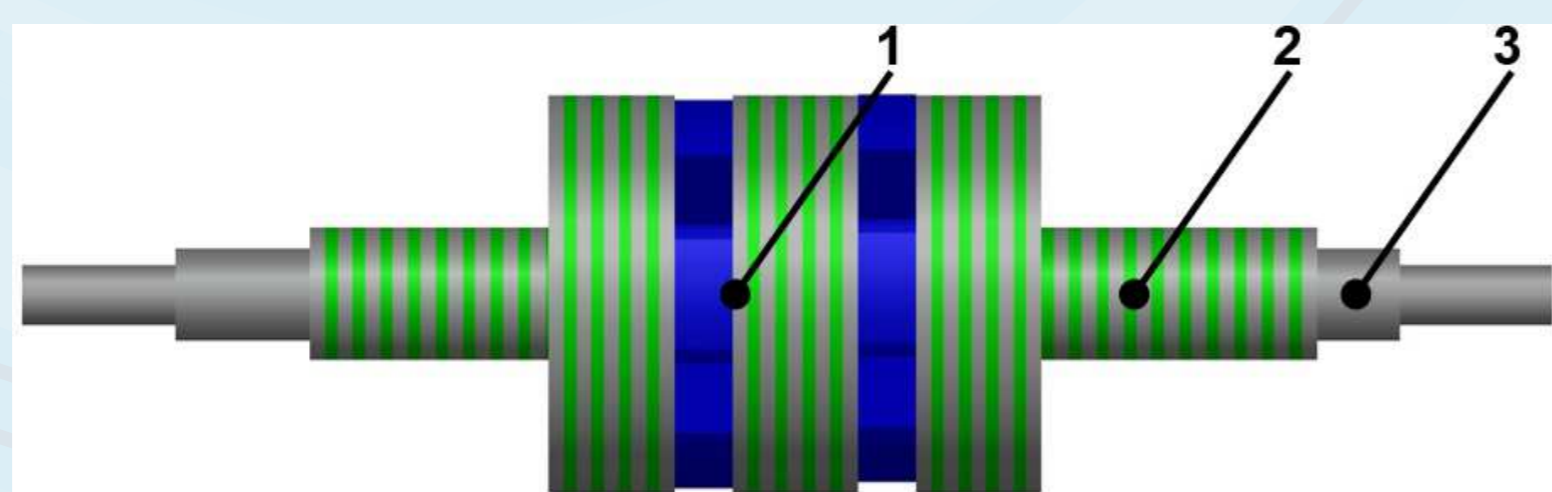


Fig.1

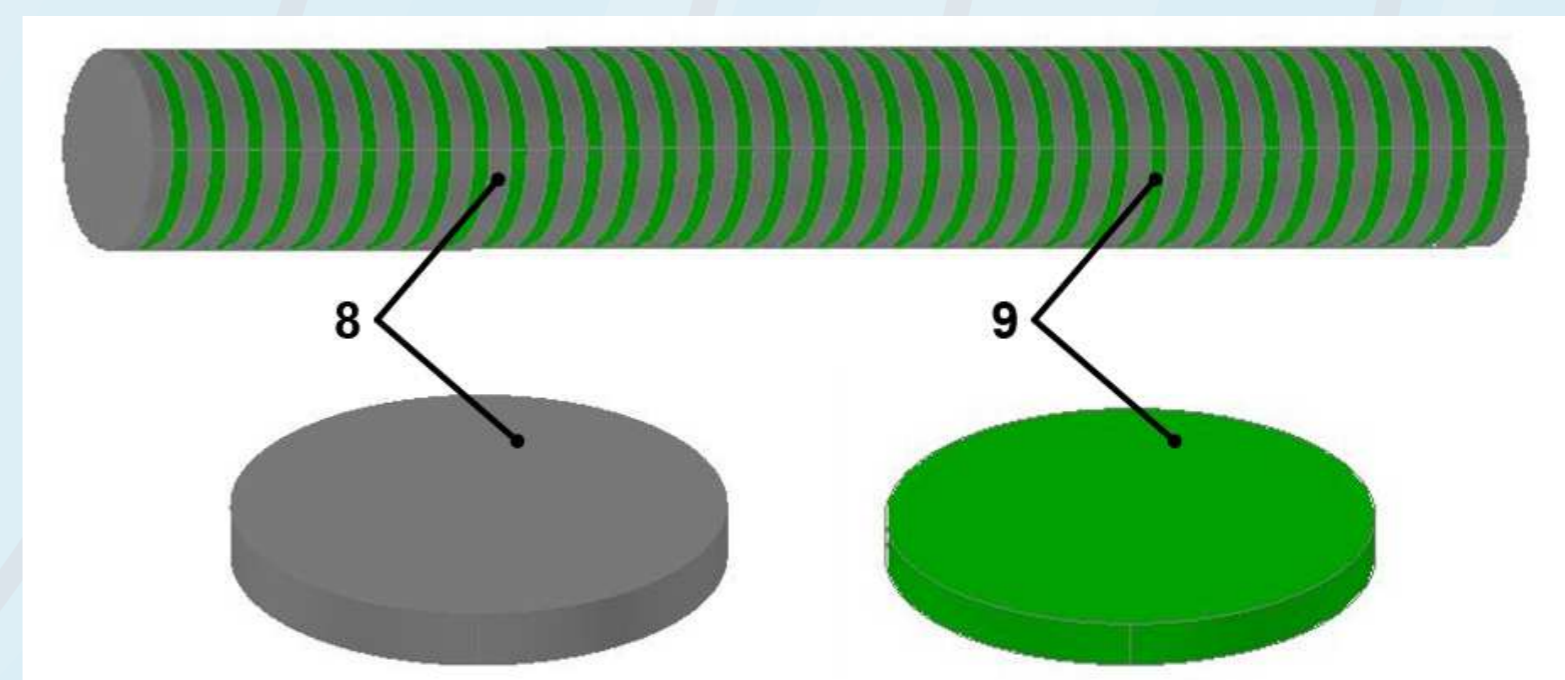


Fig.3

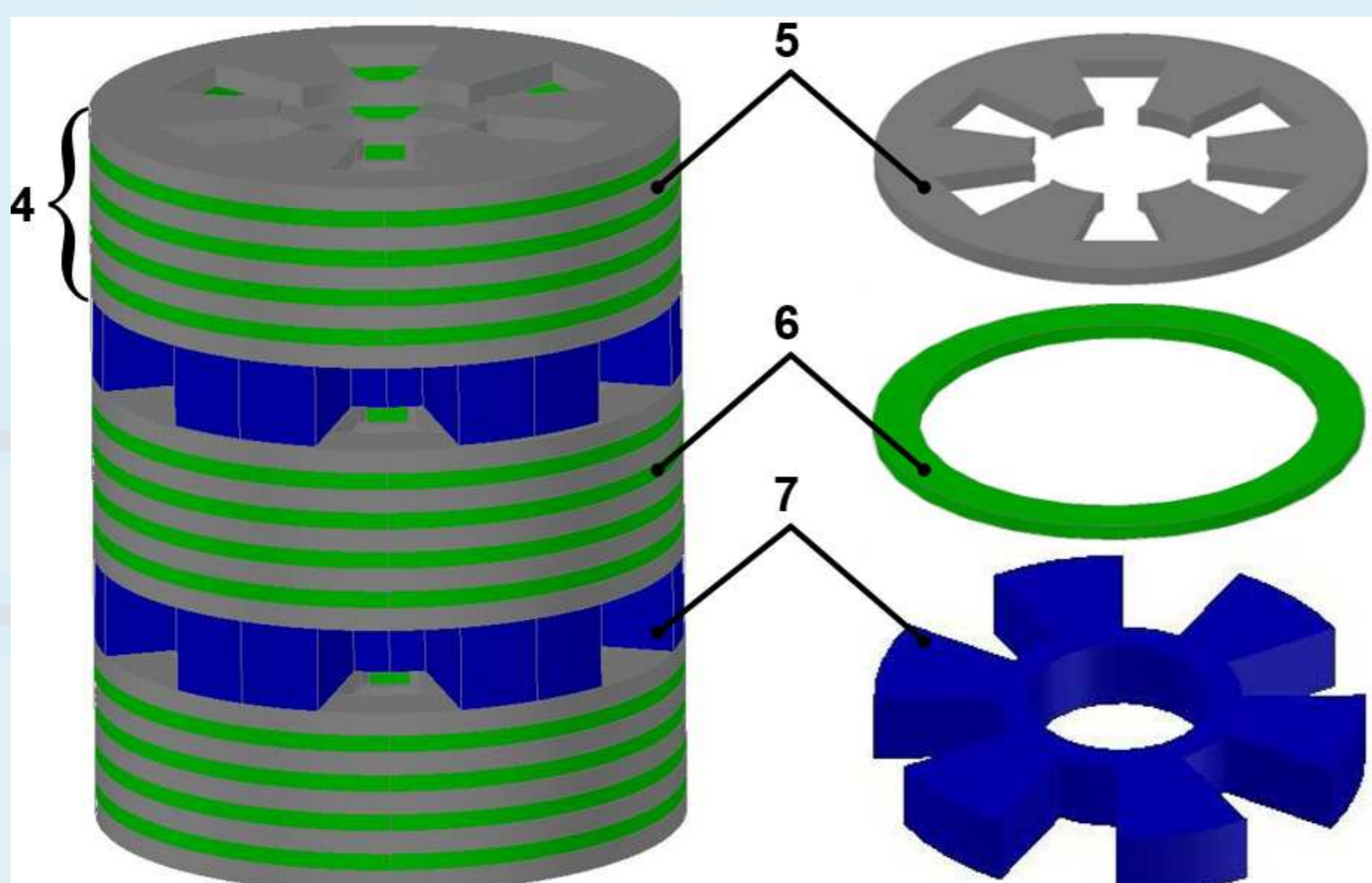


Fig. 2

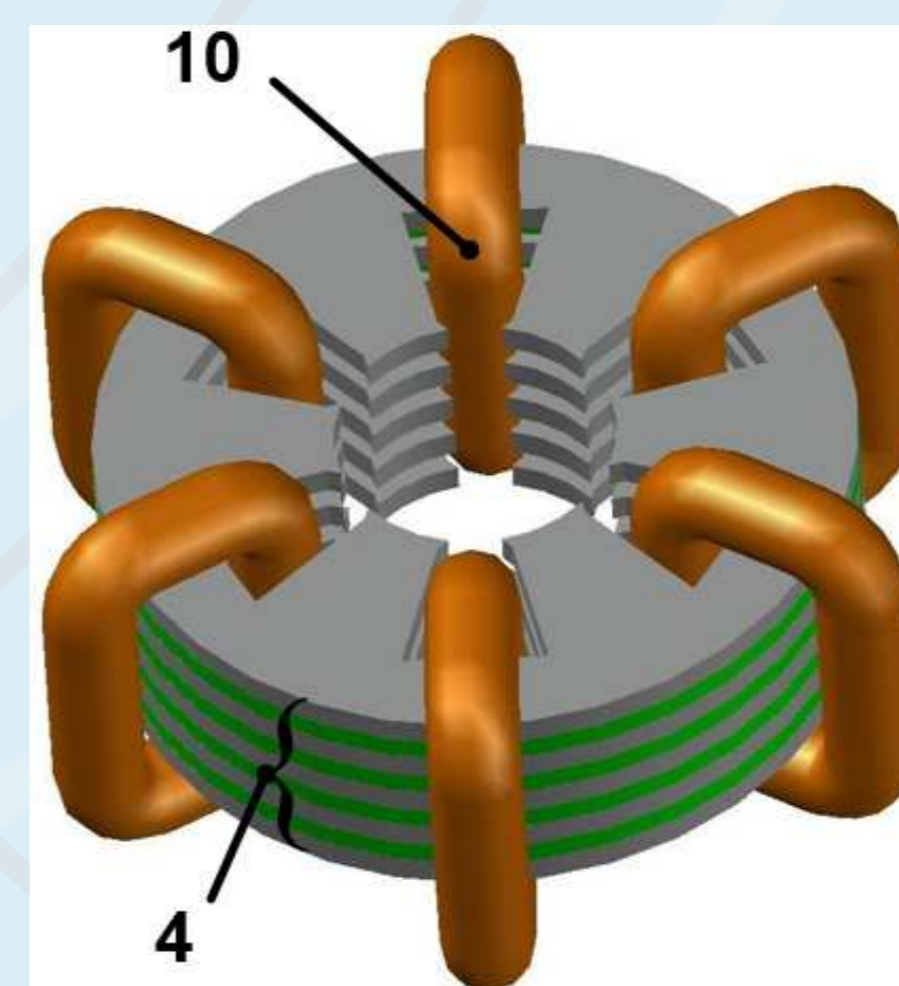


Fig. 4