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Patent Search

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Abstract:
 Present invention provides a novel steering system. The proposed system uses hub for smooth transmission, Skeleton (9) to reduce cost, wear and tear, and light in weight. No leakage of power steering fluid, magnetic joints to reduce vibration and directional stability by using Bell Crank Lever (18) mechanism. By making above changes in steering mechanism achieved low cost steering system, reduction in vibration and wear and tear, precise steering stability, high comfort and good reliable steering system. This steering system is very useful in automobile industry to increase productivity. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the front view of proposed steering mechanism.

Complete Specification

Claims:We claim:-

1. A steering system which efficiently converts rotary movement of Steering Wheel (1) to angular turn of front Wheels characterized in that Steering Wheel (1) is connected to Steering Column (6) through Torque Sensor (2) which integrated with ECU (3) and DC Motor (4), ECU (3) sends the signal to electric Motor (4) which rotate the shaft which rotate Gears (5) which are on the screw; and Steering Column (6) is connected to steering screw by using Universal Joint (7) then steering screw is assembled with hub nut which operates Skeleton (9), connected to magnetic Joints (12,13) through steering linkages.
2. Accordingly as claimed in claim 1 wherein magnetic joints are connected to Stub Axle (16) at front Wheels with Fulcrum (14), both magnetic joints are connected by links through bell crank mechanism.
3. Accordingly as claimed in claim 1 wherein a hub is embedded where it is free to move in up and down direction to transmit power.
4. Accordingly as claimed in claim 1 wherein magnet joint having same polarity is added.
5. As claimed in claim 1 wherein said system Bell Crank Lever (18) is provided to obtain directional stability with accurate steering

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