

## **Novel self-driving car steering wheel**

Novel self-driving car steering wheel, including steering wheel steering gear and automobile body, the middle part swing joint at steering wheel steering gear top turns to the input shaft, the steering wheel has been cup jointed through the sleeve in the top that turns to the input shaft, the inner chamber of automobile body is equipped with telescopic mechanisms and electric telescopic handle respectively. The utility model discloses can increase substantially the holistic structural strength of steering wheel, stable and firm degree, the holistic life of steering wheel has been prolonged, can promote telescopic mechanism push upward through electric telescopic handle's operation, realize upwards extending of telescopic shaft, thereby drive upwards extending of steering wheel steering gear, realized that whole the quick of steering mechanism of steering wheel and steering wheel stretches out and draws back in a flexible way, can be when the car be in unmanned drive state, make the steering wheel can the indentation, thereby the indoor space of automobile has been enlarged.

A car power assisted steering controller main points include the casing and set up circuit board in the casing, the circuit board includes power amplifier board and control panel, power amplifier board is including lying in the wherein power module of one side, the power module is kept away from power amplifier board one side and is equipped with the heat conduction plane, the internal face of casing is equipped with convex heat transfer panel to the heat conduction plane, heat transfer panel and the laminating of heat conduction plane phase, and conduct heat and be equipped with the heat-conducting layer between panel and the heat conduction plane, be provided with radiating fin on the outer wall of casing, the control panel lies in power amplifier board towards the opposite side of heat transfer panel, just be equipped with the interval between control panel and the power amplifier board, the utility model has the characteristics of rationally distributed, heat dispersion is better.

The invention discloses a novel auto electric power assisted steering system transfers ball bearing with angle, including outer lane, inner circle, steel ball, keep ware, dust prevention slot, sealing washer, rivet to constitute, the ware that keeps be located between inner circle and the outer lane, evenly separate the steel ball, keep the ware to pass through riveted by rivets together, the bearing be the canned type bearing, outer lane and inner circle both ends have dust prevention slot, the sealing washer is located the dust prevention slot on bearing two sides, characterized in that: outer ring raceway curvature radius

$r_e=0.545$  steel ball diameter  $d_w$ , the high coefficient  $k_d=0.35$  of flange, the sealing washer is labyrinth contact -type sealing circle, outer lip of sealing washer and the contact of inner circle dust prevention slot, the other end and the contact of outer lane dust prevention slot. A foretell novel auto electric power assisted steering system transfers ball bearing with angle can be applicable to car a steering system better, improves the transmission bearing capacity and the damping capacity of auto steering ware, guarantees a steering system's smooth operation.

An electronic jiyouchu, include: frame structure, battery, hydraulic cylinder operating system, at least two sets of drive wheel set, at least six groups from dynamic wheel group, hydraulic system, power pack and a steering system. The utility model discloses an electric platform transport vehicle adopts the big moment of torsion hydraulic motor of low -speed to walk to go the drive, and drive unit overall dimension is less, adopts the tire of high strength to walk the line, and the hydraulic system who hangs design is 4 supporting systems, adopts motor drive a steering system turns to angel position control, adopts the battery for the walking to go and provide the power supply with turning to of whole car, adopts electric drive, can the reducing pollutants environment, reduce the health cost to operating personnel.