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(71) 申请人: 深圳市智行单轴双轮驱动技术有限公司 (SHENZHEN ZHIXING SINGLE-AXLE TWO-WHEELED DRIVING TECHNOLOGY CO., LTD.) [CN/CN]; 中国广东省深圳市宝安区沙井街道步涌同富裕工业园 A-5 地块 5 栋二楼 205 室, Guangdong 518104 (CN)。

(72) 发明人: 龚蜀刚 (GONG, Shugang); 中国广东省深圳市宝安区沙井街道步涌同富裕工业园 A-5 地块 A5 栋, Guangdong 518104 (CN)。

(74) 代理人: 深圳中一专利商标事务所 (SHENZHEN ZHONGYI PATENT AND TRADEMARK OFFICE); 中国广东省深圳市福田深南中路 1014 号老特区报社四楼西区 5 号信箱, Guangdong 518028 (CN)。

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— 包括国际检索报告(条约第 21 条(3))。

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(54) Title: STEERING MOTOR

(54) 发明名称 : 一种转向电机

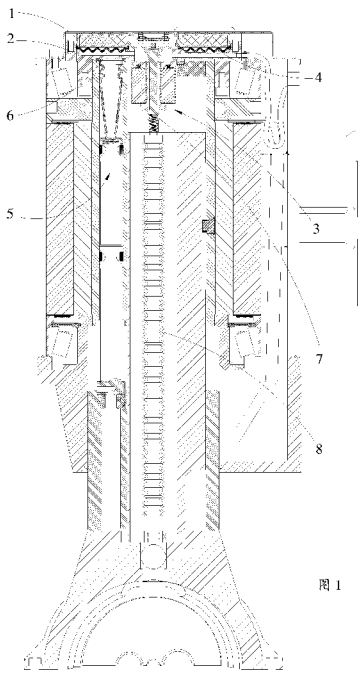


图 1

(57) Abstract: Disclosed is a steering motor, comprising a spring damping valve, and an oil distributor which is fitted with the spring damping valve to form a cavity in which a buffering assembly is provided. A cylinder assembly is provided on a lower side of the oil distributor, and comprises a cylinder, an elastic oil bag provided in the cylinder, and a piston which is provided in the cylinder and fixedly connected to the elastic oil bag, the piston being capable of sliding axially along the cylinder. In addition, the oil distributor is further provided with an oil flow passage; the spring damping valve protrudes out of a hollow column having an inner cavity; a directional control valve having a valve core is inserted in the cavity of the hollow column; the hollow column is further provided with an oil flow port in communication with the oil flow passage; an oil inlet groove is provided on and in communication with the oil flow port; and the valve core protrudes into the hollow column and is fitted with the oil flow port and the oil inlet groove. The steering motor adopts an oil passage combination design to simplify the structure, and also adopts the elastic oil bag to reduce the frictional wear of a shock absorption mechanism, so as to prolong the service life of steering motor and reduce the costs.

(57) 摘要:

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一种转向电机，其包括弹簧减震阀，以及与弹簧减震阀盖合形成型腔的分油盘，型腔内设有缓冲组件；分油盘下侧还设有油缸组件，其包括油缸和设于油缸内的弹性油囊，以及于油缸内并与弹性油囊固定连接的活塞，该活塞可沿油缸轴向滑动；并且，分油盘中还设有过油通道，弹簧减震阀伸出具有内腔的中空柱，中空柱的腔内插设具有阀芯的换向阀，中空柱上还设有与过油通道连通的过油口，该过油口上开设有与其连通的进油槽，且阀芯伸入中空柱内与过油口和进油槽配合。该转向电机采用了油道组合设计，简化了结构，另外采用弹性油囊，减小了减震机构的摩擦磨损，从而延长了转向电机的使用寿命，节约了成本。