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(54) Title: AXLE FOR USE IN GAUGE-CHANGEABLE WHEEL SET, AND GAUGE-CHANGEABLE WHEEL SET

(54) 发明名称: 变轨距轮对用车轴及变轨距轮对

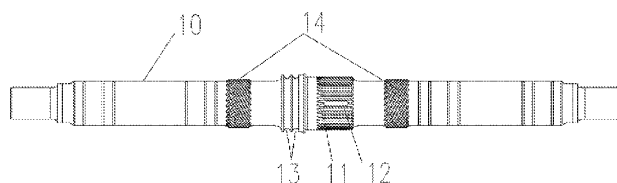


图 1

(57) Abstract: A gauge-changeable wheel set, comprising an axle (10). A central through hole (15) is formed in the axial direction of the axle (10); an external spline (11) extending along the axial direction of the axle (10) is constructed in the periphery of the axle (10) close to a middle portion; first non-self-locking threads (14) having opposite rotation directions are respectively arranged on the portions, located at the two sides of the axial direction of the external spline (11), of the periphery of the axle (10); an oblong hole (12) penetrating in the radial direction of the axle is formed in the portion, located on the external spline (11), of the axle (10); the length direction of the oblong hole (12) is the axial direction of the axle (10); and at least one first raceway (13) provided around the axle (10) in a circumferential direction is constructed on the portion of the axle (10) between one of the first non-self-locking threads (14) and the external spline (11). The axle (10) is ingenious in structure design, so that a connection structure of the axle (10) and a wheel is simple, and the gauge-changeable reliability is high. Further disclosed is an axle for use in a gauge-changeable wheel set.

(57) 摘要: 一种变轨距轮对, 包括车轴 (10), 车轴 (10) 的轴向设有中心通孔 (15), 车轴 (10) 靠近中部的轴周构造有一段沿车轴 (10) 轴向延伸的外花键 (11), 车轴 (10) 的轴周位于外花键 (11) 的轴向两侧分别设有一段旋向相反的第一非自锁螺纹 (14), 车轴 (10) 位于外花键 (11) 处设有沿其径向贯通的长圆孔 (12), 长圆孔 (12) 的长度方向沿车轴 (10) 的轴向; 车轴 (10) 在位于其中一个第一非自锁螺纹 (14) 与外花键 (11) 之间的部位构造有环绕车轴 (10) 周向设置的至少一个第一滚道 (13)。车轴 (10) 结构设计巧妙, 使得车轴 (10) 与车轮连接结构简单, 变轨距可靠性高。还公开了一种变轨距轮对用车轴。

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