

ABSTRACT

AXLE FOR USE IN GAUGE-CHANGEABLE WHEELSET, AND GAUGE-CHANGEABLE WHEELSET

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 outer 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 outer 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 outer 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 outer 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.

FIG. 1