

Title (en)

LUBRICATING STRUCTURE FOR GAUGE-CHANGEABLE WHEELSET AND GAUGE-CHANGEABLE WHEELSET

Title (de)

SCHMIERSTRUKTUR FÜR RADSATZ MIT VERÄNDERLICHER SPURWEITE UND RADSATZ MIT VERÄNDERLICHER SPURWEITE

Title (fr)

STRUCTURE DE LUBRIFICATION POUR ESSIEU MONTÉ À JAUGE VARIABLE ET ESSIEU MONTÉ À JAUGE VARIABLE

Publication

EP 3831688 B1 20240612 (EN)

Application

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Abstract (en)

[origin: EP3831688A1] Disclosed are a lubricating structure for gauge-changing wheelset and a gauge-changing wheelset. The lubricating structure for gauge-changing wheelset comprises: wheels (1), an axle (2), and sliding mechanisms; the wheels are slidably provided at both ends of the axle, and the sliding mechanisms are respectively connected to outer sides of the wheels and are located in axle-box bodies at both ends of the axle; and the wheels are unlocked and locked by the sliding mechanisms. A sealing structure (6) is provided between an inner side of the wheel and the axle, a first cavity (7) is formed between the inner side of the wheel, the axle and the sealing structure, a second cavity (8) is formed between the outer side of the wheel and the sliding mechanism, and a third cavity (9) is formed between the sliding mechanism and the axle-box body. The wheel is provided with first oil injection holes (10) leading to a connection between the wheel and the axle, and the axle-box body is provided with second oil injection holes (11) leading to the sliding mechanism. The lubricating structure of the present application may increase the lubrication of a friction surface, and reduce the wear of the key wear-prone parts, thereby extending the overall service life of the gauge-changing wheelset.

IPC 8 full level

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