

Title (en)

RAILWAY BOGIE EQUIPPED WITH A GAUGE VARYING SYSTEM, AND RAILWAY VEHICLE COMPRISING SUCH RAILWAY BOGIE

Title (de)

EISENBAHNDREHGESTELL MIT EINEM SPURWECHSELSYSTEM UND SCHIENENFAHRZEUG MIT EINEM SOLCHEN EISENBAHNDREHGESTELL

Title (fr)

BOGIE FERROVIAIRE ÉQUIPÉ D'UN SYSTÈME DE VARIATION DE JAUGE ET VÉHICULE FERROVIAIRE COMPRENANT UN TEL BOGIE FERROVIAIRE

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Application

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Abstract (en)

A bogie (100) for a railway vehicle, comprising:- a first half-frame (10) carrying a first set of wheels (11) and a second half-frame (20) carrying a second set of wheels (12), said first and second half-frames (10, 20) being movably connected to each other at least along a first axis (Y) transversal with respect to a travelling direction (X) of the bogie along a railway line (110);- a transverse bolster (30) movable between a lowered position where it rests on and it is locked to the first and second half-frames (10, 20), the first and second half-frames being at a first mutual distance corresponding to a first rail gauge, and a raised position where it is unlocked from and lifted above the first and second half-frames (10, 20);- a gauge varying system suitable to interact with a gauge varying installation (1) which is positioned along the railway line (110) and comprises a first supporting rail (2) and a second supporting rail (3), and a plurality of guiding rails (4, 5, 6, 7) interposed there between. The gauge varying system (200) comprises at least actuating means (220) and a plurality of movable guided elements (201, 202, 203, 204), wherein the movement of the transverse bolster (30) from the lowered position to the raised position triggers said actuating means which then actuate said plurality of movable guided elements to move from a rest position to a working position at which each guided element slides inside and is guided by a corresponding guiding rail of said plurality of guiding rails (4, 5, 6, 7), the guided sliding of the plurality of movable guided elements inside the corresponding guiding rails causing the displacement of at least one of the first and second half-frames (10,20) along said first axis (Y) transversal to the travelling direction (X) up to reaching a second mutual distance between the first and second half-frames corresponding to a second rail gauge. The invention encompasses also a railway vehicle comprising at least one bogie (100).

IPC 8 full level

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Citation (applicant)

CH 703173 A2 20111130 - CIE DU CHEMIN DE FER MONTREUX OBERLAND BERNOIS SA [CH]

Citation (search report)

- [A] WO 2020047852 A1 20200312 - CRRG TANGSHAN CO LTD [CN]
- [A] WO 2009101023 A1 20090820 - CIE DU CHEMIN DE FER MONTREUX [CH], et al
- [A] EP 0596408 A1 19940511 - KAWASAKI HEAVY IND LTD [JP]
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- [AD] CH 703173 A2 20111130 - CIE DU CHEMIN DE FER MONTREUX OBERLAND BERNOIS SA [CH]

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