

Title (en)

FREE-MOVING TRANSPORT CART, CONVEYING SYSTEM AND TREATMENT PLANT

Title (de)

FREIFAHRENDER TRANSPORTWAGEN, FÖRDERSYSTEM UND BEHANDLUNGSANLAGE

Title (fr)

CHARIOT DE TRANSPORT AUTOMATIQUE, SYSTÈME DE CONVOYAGE ET INSTALLATION DE TRAITEMENT

Publication

EP 3972890 A1 20220330 (DE)

Application

EP 20723839 A 20200430

Priority

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- EP 2020062125 W 20200430

Abstract (en)

[origin: WO2020233962A1] The invention relates to a free-moving transport cart for conveying workpieces (12), in particular vehicle bodies (14), on a conveying path (36), having a chassis (46) which defines a main axis (50) and main orientation of the transport cart (42) and comprising a chassis frame (48) which supports a plurality, in particular at least four, wheel arrangements (52) each having one or more wheels (54). A fastening device (66) for at least one workpiece (12) is coupled to the chassis (46) by means of a connecting device (72). There is a wheel guide system (88) for the wheels (54) of the wheel arrangements (52) which defines a basic chassis configuration in which the wheel arrangements (52) define a horizontal travel plane (90). The wheel guide system (88) guides the wheels (54) of the wheel arrangements (52) in such a way that at least one wheel (54) of at least one wheel arrangement (52) can be moved out of the travel plane (90) without the other wheel arrangements (52) completely leaving the travel plane (90). A conveying system (34) comprises a large number of such transport carts (42) and a treatment plant (10) has such a conveying system (34).

IPC 8 full level

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