

Title (en)

CONVEYANCE DEVICE AND METHOD FOR TESTING WHETHER A MINIMUM DISTANCE BETWEEN TWO OBJECTS TO BE CONVEYED IS MAINTAINED

Title (de)

FÖRDEREINRICHTUNG UND VERFAHREN ZUR ÜBERPRÜFUNG DER EINHALTUNG EINES MINDESTABSTANDES ZWISCHEN ZWEI FÖRDEROBJEKTEN

Title (fr)

DISPOSITIF D'ACHEMINEMENT ET PROCÉDÉ POUR VÉRIFIER SI UNE DISTANCE MINIMALE ENTRE DEUX OBJETS ACHEMINÉS EST RESPECTÉE

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Application

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Abstract (en)

[origin: WO2011038439A1] The invention relates to a conveyance device (1) comprising several drives (2, 2a..2c) arranged successively in the direction of conveyance (z, z1, z2) and used to transport objects (22a..22d) at an actual speed. Said conveyance device (1) comprises means for determining a desired position of an object (22a..22d) using a desired speed of the drives (2, 2a..2c) and the time which has elapsed after passing a reference point (p), or using a desired path which is predefined by the drives (2, 2a..2c) and which is traversed after passing a reference point (p). Said conveyance device (1) comprises a control/regulation element for controlling or regulating a desired distance between two objects (22a..22d) using the mentioned desired position. According to the invention, said conveyance device (1) also comprises at least one sensor (17, 18, 23) which is provided for detecting a first range (A) and a second range (B), the second detection range (B) being arranged in the direction of conveyance (z, z1, z2) behind the first detection range (A) at a first distance (x, x1, x2). Said conveyance device (1) also comprises means for testing whether at least one distance (x, x1, x2) is maintained between two objects (22a..22d) transported by said conveyance device (1) using a signal emitted by the at least one sensor (17, 18, 23) in such a manner that a positive result is signalled when the objects (22a..22d) pass both detection ranges (A, B), the two detected ranges being at least free of objects (22a..22d) for a short time or at least partially covered such that at least the first distance (x, x1, x2) can be determined. The invention also relates to a method for testing whether the first distance (x, x1, x2) between two objects (22a..22d) transported by the conveyance device (1) is maintained.

IPC 8 full level

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