

Title (en)
METHOD FOR DETERMINING A MINIMUM DISTANCE BETWEEN AN OBJECT AND AN APPARATUS SURFACE, SAFETY DEVICE FOR A HANDLING APPARATUS HAVING AN APPARATUS SURFACE, AND HANDLING APPARATUS

Title (de)
VERFAHREN ZUR ERMITTLUNG EINES MINIMALABSTANDS EINES OBJEKTS VON EINER VORRICHTUNGSOBERFLÄCHE, SICHERHEITSEINRICHTUNG FÜR EINE VORRICHTUNGSOBERFLÄCHE AUFWEISENDE HANDHABUNGSVORRICHTUNG SOWIE HANDHABUNGSVORRICHTUNG

Title (fr)
PROCÉDÉ POUR DÉTERMINER UNE DISTANCE MINIMALE ENTRE UN OBJET ET UNE SURFACE D'APPAREIL, DISPOSITIF DE SÉCURITÉ POUR UN APPAREIL DE MANUTENTION AYANT UNE SURFACE D'APPAREIL, ET APPAREIL DE MANUTENTION

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Abstract (en)
[origin: WO2022179698A1] A method for determining a minimum distance between an object (22) and an apparatus surface (12a, 14a, 16a, 18a), in particular for determining a minimum distance between an object (22) and an apparatus surface (12a, 14a, 16a, 18a) of a handling apparatus (10), is described. In this case, a primary distance of the object (22) is captured as the distance of the object by a distance sensor unit (32) in or on the apparatus surface (12a, 14a, 16a, 18a). A critical point which is at the primary distance from the distance sensor unit (32) and is within a capture range (36) of the distance sensor unit (32) and comes closest to the apparatus surface (12a, 14a, 16a, 18a) taking into account a spatial course of the latter is also determined. Finally, a minimum distance between the critical point and the apparatus surface (12a, 14a, 16a, 18a) is determined. A safety device (30) for a handling apparatus (10) having an apparatus surface (12a, 14a, 16a, 18a) and a handling apparatus (10) equipped with said safety device are also presented.

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