

Title (en)

METHOD AND ARRANGEMENT TO AVOID COLLISION BETWEEN A ROBOT AND ITS SURROUNDINGS WHILE PICKING DETAILS INCLUDING A SENSORSYSTEM

Title (de)

VERFAHREN UND ANORDNUNG ZUR VERMEIDUNG VON KOLLISION ZWISCHEN EINEM ROBOTER UND SEINERUMGEBUNG BEI DER AUFNAHME VON KOMPONENTEN MIT EINEM SENSORSYSTEM

Title (fr)

PROCEDE ET DISPOSITIF POUR EVITER DES COLLISIONS ENTRE UN ROBOT COMPRENANT UN SYSTEME DE DETECTION, ET SON ENVIRONNEMENT PENDANT LE RAMASSAGE D'ELEMENTS

Publication

EP 1569776 A1 20050907 (EN)

Application

EP 03812746 A 20031210

Priority

- SE 0301933 W 20031210
- SE 0203655 A 20021210

Abstract (en)

[origin: WO2004052596A1] Method and arrangement for a robot having an associated sensor system for preventing collisions between robot or a gripper arranged on the robot and its surroundings when picking up components, involving the following steps: creation of an image or multi-dimensional representation of a pick-up arena which is supplied with components; identification of the components and their orientation; and definition of one or more following: the gripper, the robot and the area of the pick-up arena, the sensor system monitoring prohibited areas for the robot or the gripper arranged on the robot.

IPC 1-7

B25J 9/16

IPC 8 full level

B25J 9/16 (2006.01)

CPC (source: EP)

B25J 9/1676 (2013.01); **B25J 9/1697** (2013.01); **G05B 2219/40053** (2013.01); **G05B 2219/40478** (2013.01)

Citation (search report)

See references of WO 2004052596A1

Cited by

US10414043B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004052596 A1 20040624; AU 2003302921 A1 20040630; EP 1569776 A1 20050907; SE 0203655 D0 20021210; SE 0203655 L 20040611; SE 524796 C2 20041005

DOCDB simple family (application)

SE 0301933 W 20031210; AU 2003302921 A 20031210; EP 03812746 A 20031210; SE 0203655 A 20021210