

Title (en)

Machine and method for sorting varied objects using at least one robotic arm

Title (de)

Maschine und Verfahren zur Sortierung verschiedener Gegenstände unter Verwendung zumindest eines Roboterarms

Title (fr)

Machine et procédé pour le tri d'objets divers à l'aide d'au moins un bras robotisé

Publication

EP 0706838 B1 20000809 (FR)

Application

EP 95430008 A 19951011

Priority

FR 9412436 A 19941012

Abstract (en)

[origin: EP0706838A1] The sorter consists of a conveyor (2) which carries the articles (E) to be sorted past a robot-controlled sorting post (3), where they are directed into appropriate containers (4). The sorting post comprises at least one robot arm (9) with a gripper (10), an artificial eye (8) which determines the position of articles on the belt and partially recognises their nature, and a complementary detection system (12) with one or more sensors to complete the identification of the articles. The data processing unit (15) processes the information from the artificial eye and sensors and causes the robot arm to pick up selected articles and drop them into the containers (4). The robot arm is of variable geometry, and the data processing unit has a computer which can recognise objects and their positions from the information provided and direct the arm to pick them up.

IPC 1-7

B07C 5/342

IPC 8 full level

B07C 5/342 (2006.01)

CPC (source: EP)

B07C 5/126 (2013.01); **B07C 5/3422** (2013.01)

Cited by

EP1063501A1; CN114130689A; CN111377213A; SE544090C2; CN106475773A; CN103974785A; CN107999399A; CN103008263A; CN112691925A; CN115447924A; CN110550352A; CN116329237A; CN104275311A; CN110449381A; CN110624857A; CN111511478A; ES2283173A1; CN114367461A; CN108107889A; CN114524247A; US8781616B2; US7258237B2; US11660762B2; DE102007049702A1; FR2775204A1; CN109712509A; CN111626117A; GB2612653A; GB2626246A; WO2015173760A1; WO0122043A3; WO2019207202A1; WO2019100857A1; WO2020093902A1; US8387342B2; US12064792B2; WO2019207203A1; EP3674040A1; NL2022320B1; US11253892B2; US10363581B2; US11319089B2; US11866199B2; WO2012136885A1; WO2019081751A1; WO2019081737A1; EP3056288B1; EP3056289B1

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