

Title (en)

METHODS AND APPARATUS FOR AUTOMATIC OBJECT HANDLING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUTOMATISCHEN HANDHABUNG VON GEGENSTÄNDEN

Title (fr)

PROCÉDÉS ET APPAREIL DE MANIPULATION AUTOMATIQUE D OBJET

Publication

**EP 1940719 A1 20080709 (EN)**

Application

**EP 05798970 A 20050926**

Priority

US 2005034247 W 20050926

Abstract (en)

[origin: WO2007040491A1] A method for vertically loading/unloading similar objects (15) to/from a horizontal tray of a processing unit, wherein the object is inclined towards the object processing equipment during the vertical travel and glides into the tray to a final horizontal position, may be carried out using an object handling apparatus comprising an original pickup device having a guiding element (6) contacting the object and radially gliding pierced grippers (9) crossed by curved arms attached to an axially moving actuator (4).

IPC 8 full level

**B66C 1/00** (2006.01); **B66C 1/42** (2006.01); **G06F 7/00** (2006.01); **G11B 17/08** (2006.01); **G11B 17/22** (2006.01); **G11B 23/00** (2006.01)

CPC (source: EP)

**G11B 17/08** (2013.01); **G11B 17/10** (2013.01); **G11B 17/12** (2013.01); **G11B 17/225** (2013.01); **G11B 23/00** (2013.01); **G11B 17/056** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2007040491 A1 20070412**; EP 1940719 A1 20080709; EP 1940719 A4 20081029

DOCDB simple family (application)

**US 2005034247 W 20050926**; EP 05798970 A 20050926