

Title (en)

Apparatus for gripping, lifting and emptying street refuse bins

Title (de)

Vorrichtung zum Greifen, Heben und Entleeren von Müllbehältern

Title (fr)

Dispositif de préhension, de levage et de vidange des récipients à ordures

Publication

EP 2530033 A1 20121205 (EN)

Application

EP 12163869 A 20120412

Priority

IT MI20110988 A 20110531

Abstract (en)

An extendable frame (4) is hinged near an access sill (5) located above a loading hopper (3) that is carried by the vehicle, and rotationally supports a pair of lifting arms (10) operatively engageable with a bin (11). A support structure (18) rotationally constrained near the access sill (5) operates on the extendable frame (4) to rotate the latter from a stand-by position against a side wall (3a) of the hopper (3) to a gripping position in which the lifting arms (10) are moved away from the side wall (3a). At least one tilting actuator (20) operates between the support structure (18) and the extendable frame (4) to rotate the latter between a rest position in which it develops below said access sill (5) and a tilting position in which it is raised with respect to the access sill (5).

IPC 8 full level

B65F 3/04 (2006.01)

CPC (source: EP)

B65F 3/046 (2013.01); **B65F 2003/0243** (2013.01); **B65F 2003/0266** (2013.01)

Citation (applicant)

- EP 1454848 A1 20040908 - FARID IND SPA [IT]
- EP 1389591 A1 20040218 - NORD ENGINEERING DI ARMANDO LO [IT]

Citation (search report)

- [A] US 4401407 A 19830830 - BRECKENRIDGE DAVID L [US]
- [A] IT FI930165 A1 19950218 - A M S S R L ATTREZZATURE MECCANICHE SPECIALI

Cited by

DE102017123369A1; ITMI20130846A1; CN108555849A; EP3248911A1; EP4186818A1; IT202100029840A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2530033 A1 20121205; EP 2530033 A8 20130116; AR 086523 A1 20131218; BR 102012012253 A2 20130730; CL 2012001375 A1 20121019; IT MI20110988 A1 20121201; UY 34028 A 20130103

DOCDB simple family (application)

EP 12163869 A 20120412; AR P120101813 A 20120523; BR 102012012253 A 20120522; CL 2012001375 A 20120528; IT MI20110988 A 20110531; UY 34028 A 20120419