

Title (en)

Empty bag supply method and empty bag supply device

Title (de)

Verfahren zur Bereitstellung leerer Säcke und Vorrichtung zur Bereitstellung leerer Säcke

Title (fr)

Procédé de fourniture de sac vide et dispositif de fourniture de sac vide

Publication

EP 2105382 A1 20090930 (EN)

Application

EP 09004564 A 20090330

Priority

JP 2008085095 A 20080328

Abstract (en)

An empty bag supply method and empty bag supply device (8) in which a first suction-hold member suction-holds a bag (4) set horizontally in a conveyor magazine (7a) and the first suction-hold member (26) is swung upward so as to raise the front end of the bag (4), a grip member (31) grips a portion near the front end of the raised bag (4) and suction-holding of the bag by the first suction-hold member (26) is released, the grip member (31) is swung upward and the bag (4) is thus moved up while being changed into a substantially vertical attitude, a second suction-hold member (44, 45) suction-holds the front-side surface of the bag (4) in the substantially vertical attitude and the grip member (31) opens to release the bag (4); and when the grip member (31) thus opens, unwanted bag(s) adhering to the suction-held bag (4) is dropped, and only the bag (4) suction-held by the second suction-hold member (44, 45) is moved horizontally onto a bag support member (3).

IPC 8 full level

B31B 50/94 (2017.01); **B65B 43/18** (2006.01)

CPC (source: EP US)

B65B 43/18 (2013.01 - EP US); **B65B 61/186** (2013.01 - EP US)

Citation (applicant)

- JP 2588135 B2 19970305
- JP 3084539 B2 20000904
- JP 2006036325 A 20060209 - GEN PACKER CO LTD
- JP 2006224546 A 20060831 - TOYO JIDOKI KK

Citation (search report)

- [AD] JP 2006036325 A 20060209 - GEN PACKER CO LTD
- [A] EP 1447331 A2 20040818 - TOYO JIDOKI KK [JP]
- [AD] JP 2006224546 A 20060831 - TOYO JIDOKI KK

Cited by

EP2719630A1; CN103723308A

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2105382 A1 20090930; EP 2105382 B1 20110511; AT E508950 T1 20110515; ES 2363488 T3 20110805; JP 2009234132 A 20091015; JP 5197093 B2 20130515; US 2009241475 A1 20091001

DOCDB simple family (application)

EP 09004564 A 20090330; AT 09004564 T 20090330; ES 09004564 T 20090330; JP 2008085095 A 20080328; US 38372409 A 20090327