

Title (en)  
Commodity carrying out device

Title (de)  
Vorrichtung zur Warenausgabe

Title (fr)  
Dispositif de réalisation de marchandises

Publication  
**EP 2012281 A3 20091125 (EN)**

Application  
**EP 08156361 A 20080516**

Priority  
JP 2007134536 A 20070521

Abstract (en)  
[origin: US2008290108A1] The present invention provides a commodity carrying out device that can reliably carry out even a commodity with a vertically long shape to a predetermined commodity carrying out position without producing a carrying-out failure. That is, when a bucket unit that receives a commodity is moved in a width direction towards a predetermined commodity carrying out position, the commodity is retained in an inclined state. It is thus possible to retain the commodity in a stable posture in the bucket unit that moves towards the predetermined commodity carrying out position, and even when carrying out a commodity that has a vertically long shape, the commodity can be reliably carried out to the commodity outlet portion without producing a carrying-out failure.

IPC 8 full level  
**G07F 11/42** (2006.01)

CPC (source: EP US)  
**G07F 11/163** (2020.05 - EP US); **G07F 11/1653** (2020.05 - EP); **G07F 11/30** (2013.01 - EP US); **G07F 11/42** (2013.01 - EP US)

Citation (search report)

- [XY] JP 2000076535 A 20000314 - TOSHIBA CORP
- [Y] FR 2718624 A1 19951020 - BLANC ROGER [FR], et al
- [XA] JP 2005010920 A 20050113 - FUJI ELECTRIC RETAIL SYSTEMS
- [A] JP 2002092725 A 20020329 - FUJI ELECTRIC CO LTD

Cited by  
CN106743034A; CN110120122A; CN110419064A; EP3568841A4; US11631294B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**US 2008290108 A1 20081127**; CN 101311975 A 20081126; CN 101311975 B 20130102; EP 2012281 A2 20090107; EP 2012281 A3 20091125;  
EP 2012281 B1 20141119; JP 2009003924 A 20090108; JP 5308713 B2 20131009

DOCDB simple family (application)  
**US 12481108 A 20080521**; CN 200810107964 A 20080521; EP 08156361 A 20080516; JP 2008130961 A 20080519