

Title (en)
AUTOMATIC DISPENSER

Title (de)
AUTOMATISCHE AUSGABEVORRICHTUNG

Title (fr)
DISTRIBUTEUR AUTOMATIQUE

Publication
EP 1337983 A1 20030827 (EN)

Application
EP 01980560 A 20011019

Priority
• FI 0100912 W 20011019
• FI 20002371 A 20001027

Abstract (en)
[origin: WO0235484A1] An automatic dispenser, comprising a conveying means (6) for moving a selected item through a delivery orifice and bringing it within the user's reach, said conveying means comprising a planar transfer mechanism (11) arranged to operate in a vertical plane on the front side of the shelves (71...76) carrying the articles to be dispensed, and a delivery carriage (13) comprising a carriage frame (18) fitted in the space between front guards (10) and a wall (2). The delivery carriage is connected to the planar transfer mechanism to allow the delivery carriage (13) to be moved to a position directly opposite to the file of goods (91...916) pertaining to the item selected, the foremost item in the file to be moved across the front guard (10), the item to be received onto the delivery carriage (13) and the item to be moved to the delivery orifice (3). The delivery carriage (13) comprises a cam element (16) fitted to extend from the carriage frame (18) into the space on the side of the shelves (71...76) relative to the vertical plane formed by the front guards (10) of the shelves and to a distance (L) smaller than the dimension (S) of the item of goods in the direction of the file relative to the front guard, so that when the lifting carriage is moved vertically at the level of a shelf so that the cam element (16) passes through the slot (17) to lift the foremost item in the file of goods over the front guard (10) and further onto the delivery carriage (13).

IPC 1-7
G07F 11/42

IPC 8 full level
G07F 11/10 (2006.01); **G07F 11/16** (2006.01); **G07F 11/42** (2006.01)

CPC (source: EP US)
G07F 11/10 (2013.01 - EP); **G07F 11/163** (2020.05 - EP US); **G07F 11/165** (2013.01 - EP US); **G07F 11/42** (2013.01 - EP)

Citation (search report)
See references of WO 0235484A1

Cited by
CN106081460A; CN106241168A; WO2024104880A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0235484 A1 20020502; AU 1237402 A 20020506; DE 60131559 D1 20080103; EP 1337983 A1 20030827; EP 1337983 B1 20071121; FI 20002371 A0 20001027

DOCDB simple family (application)
FI 0100912 W 20011019; AU 1237402 A 20011019; DE 60131559 T 20011019; EP 01980560 A 20011019; FI 20002371 A 20001027