

Title (en)

Dispensing machine with a common delivery handler

Title (de)

Ausgabeautomat mit gemeinsamen Zufuhrmanipulator

Title (fr)

Distributeur avec un manipulateur de distribution commun

Publication

EP 0991036 A3 20001004 (DE)

Application

EP 99116674 A 19990826

Priority

DE 29817528 U 19981001

Abstract (en)

[origin: EP0991036A2] The dispensing device (10,15) has a number of forwards angled storage shelves for the dispensed goods, stacked one above the other and an electronically controlled manipulator, moved within a free space at the front of the shelves, for removal of the front item from a selected shelf, each shelf provided as a removable unit.

IPC 1-7

G07F 11/16; **G07F 11/32**; **G07F 11/42**

IPC 8 full level

A47F 1/12 (2006.01); **G07F 11/32** (2006.01)

CPC (source: EP)

A47F 1/12 (2013.01); **G07F 11/32** (2013.01)

Citation (search report)

- [Y] US 4867628 A 19890919 - AMMON J PRESTON [US], et al
- [Y] US 4061245 A 19771206 - LOTSPEICH JOSEPH A
- [E] WO 9949429 A2 19990930 - COCA COLA CO [US]
- [A] US 4209211 A 19800624 - ALFORD JAMES R [US]
- [A] US 4847764 A 19890711 - HALVORSON JERRY L [US]
- [A] US 3917045 A 19751104 - WILLIAMS ROBERT L, et al

Cited by

US2024005270A1; US11631294B2; WO2018132763A1; WO2007082537A1; EP1258438A1; WO2024008324A1

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DOCDB simple family (publication)

EP 0991036 A2 20000405; **EP 0991036 A3 20001004**; **EP 0991036 B1 20051026**; AT E308088 T1 20051115; DE 29817528 U1 20000217; DE 59912706 D1 20051201; ES 2251142 T3 20060416

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