

Title (en)  
AUTOMATIC VENDING MACHINE

Title (de)  
AUTOMATISCHE VENDING-MASCHINE

Title (fr)  
VENTE AUTOMATIQUE

Publication  
**EP 3540701 A1 20190918 (EN)**

Application  
**EP 19020129 A 20190315**

Priority  
IT 201800003657 A 20180316

Abstract (en)  
An automatic vending machine (1) of the type provided with: means (2) for selecting a product; means (2) to make a payment; means (4) for displaying the products; means for delivering the selected product, comprising a container for the products to be dispensed and means for the controlled release of the selected products; said means for dispensing the product including at least a spiral dispensing device (10), i.e. a device comprising a container consisting of a containment and transport channel (17) in which a spiral thrust element (19) suitable for containing the products among its coils and moving the products along said channel (17) by a motor (13) by rotating the thrust member (19) around its own longitudinal axis (X); at least one outlet or withdrawal compartment (5) for the release of the product dispensed by the vending machine (1). The motor (13) is arranged at said containment and transport channel (17) so as not to increase the overall dimensions of the device (10) in the direction of development of the axis (X). The outlet (5) is provided with a camera (50) adapted to produce an image of a dispensed product, an archive (51) of reference images being provided to which the image thus obtained is compared.

IPC 8 full level  
**G07F 11/00** (2006.01); **G07F 11/58** (2006.01)

CPC (source: EP US)  
**G07F 9/001** (2020.05 - EP US); **G07F 9/002** (2020.05 - EP); **G07F 11/52** (2013.01 - EP); **G07F 11/58** (2013.01 - EP)

Citation (applicant)  
US 2013313280 A1 20131128 - CHEN YUN-LUNG [TW], et al

Citation (search report)  
• [I] EP 1994509 A2 20081126 - OHG F LLI MANEA S R L [IT]  
• [I] EP 2535878 A1 20121219 - DAMIAN S R L [IT]  
• [A] US 2008087720 A1 20080417 - LEVITOV YEVGENY BORIS [US]  
• [A] US 2015279147 A1 20151001 - ILLINGWORTH SHANNON WAYNE [US], et al

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 3540701 A1 20190918**; IT 201800003657 A1 20190916

DOCDB simple family (application)  
**EP 19020129 A 20190315**; IT 201800003657 A 20180316