

Title (en)

Unit for applying opening devices to packages of pourable food products

Title (de)

Einheit zum Auftragen von Öffnungsvorrichtungen auf Packungen für fließfähige Nahrungsmittel

Title (fr)

Unité d'application d'éléments d'ouverture à des emballages de produits alimentaires liquides

Publication

**EP 1462369 A1 20040929 (EN)**

Application

**EP 03007126 A 20030328**

Priority

EP 03007126 A 20030328

Abstract (en)

A unit (1) for applying opening devices (2) to respective packages (3) of pourable food products, the unit having a first conveying device (8) for feeding the packages (3) successively to an application station (13) along a first path (P1); a second conveying device (21) for feeding the opening devices (2) successively to the application station (13) along a second path (P2); and a sensor (53) for determining the presence of the opening devices at a detecting station (60) located along the second path (P2); and wherein a control unit (59) controls the first conveying device (8) in response to a signal generated by the sensor (53) to prevent supply of a package (3) to the application station (13) in response to a value of the signal indicating the absence of a corresponding opening device (2) at the detecting station (60). <IMAGE>

IPC 1-7

**B65B 61/18**; B31B 1/84; B31B 1/74; B65B 57/04; B65G 47/84

IPC 8 full level

**B31B 1/74** (2006.01); **B31B 1/84** (2006.01); **B65B 57/04** (2006.01); **B65B 61/18** (2006.01)

CPC (source: EP)

**B65B 57/04** (2013.01); **B65B 61/186** (2013.01); B31B 50/006 (2017.07); B31B 50/84 (2017.07)

Citation (search report)

- [XY] US 5484374 A 19960116 - BACHNER JERRY G [US], et al
- [DY] EP 1228967 A1 20020807 - TETRA LAVAL HOLDINGS & FINANCE [CH]
- [Y] EP 0519400 A1 19921223 - GD SPA [IT]
- [A] US 4507168 A 19850326 - KONAKA YUKIO [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08 6 October 2000 (2000-10-06)

Cited by

CN105836226A; CN102529163A; EP2418154A1; US8161713B2; US8499529B2; WO2011038962A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1462369 A1 20040929**; WO 2004085261 A2 20041007; WO 2004085261 A3 20050310

DOCDB simple family (application)

**EP 03007126 A 20030328**; EP 2004050383 W 20040326