

Title (en)

Method for packaging fresh plant products

Title (de)

Verfahren zum Verpacken von frischen pflanzlichen Produkten

Title (fr)

Procédé d'emballage de produits végétaux frais

Publication

EP 1647489 A2 20060419 (FR)

Application

EP 05017147 A 20050805

Priority

FR 0408682 A 20040805

Abstract (en)

The apparatus (20) for packaging fresh fruit and vegetables in containers (21 - 24) covered with a sealed layer of film (32) incorporates a perforator (51) to make holes in the film with variable density, adapted to the metabolism of the contents. The film is delivered from a roll (31) and passes under the perforating system, including an activator (42) and a perforator with a light source (44), especially a CO2 laser. A regulator (47) connected to the actuator permits manual control of the density of the perforations according to a characteristic of the packaged product such as its respiratory intensity, weight or type. The film is between 25 and 90 microns thick and the perforations are between 30 and 70 microns in diameter.

IPC 8 full level

B65B 61/02 (2006.01); **B65B 7/16** (2006.01); **B65B 25/04** (2006.01)

CPC (source: EP)

B65B 25/041 (2013.01); **B65B 61/02** (2013.01)

Citation (applicant)

- EP 0351115 A2 19900117 - COURTAULDS FILMS & PACKAGING [GB]
- US 5832699 A 19981110 - ZOBEL MICHAEL GEORGE REINHARDT [GB]
- US 2003029850 A1 20030213 - VARRIANO-MARSTON ELIZABETH [US]
- US 2003172627 A1 20030918 - BACKUS STEPHANUS MICHAEL MARIE [NL]

Cited by

US9981763B2; EP1806290A1; DE102007013698A1; US2015059293A1; EP3038821A4; EP1714885A1; US7950207B2; US8237084B2

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

FR 2873992 A1 20060210; FR 2873992 B1 20071012; AT E428636 T1 20090515; DE 602005013877 D1 20090528; EP 1647489 A2 20060419; EP 1647489 A3 20060524; EP 1647489 B1 20090415; ES 2325959 T3 20090925

DOCDB simple family (application)

FR 0408682 A 20040805; AT 05017147 T 20050805; DE 602005013877 T 20050805; EP 05017147 A 20050805; ES 05017147 T 20050805