

Title (en)
Microwavable packaging

Title (de)
Verpackung für Mikrowellenöfen

Title (fr)
Emballage pour four à micro-ondes

Publication
EP 1481922 A2 20041201 (EN)

Application
EP 04076596 A 20040528

Priority
• US 44766603 A 20030529
• US 44767203 A 20030529

Abstract (en)
A microwavable package (48) may include one or more microwave-absorbing regions (62), microwave-shielding regions, and/or embossed regions designed to enhance microwave cooking of food products including raw meat, poultry, and fish as well as breaded, battered, and dough-containing items. Microwave-absorbing regions (62) (i.e., solid susceptors) may promote thermal cooking, browning, and/or crisping of food products. Microwave-shielding regions (i.e., patterned susceptors) may promote uniform cooking and inhibit overcooking of food products. A patterned susceptor (20) may be a conductive grid or a grid of conductive or non-conductive shapes (e.g., squares, triangles, circles). In an embodiment, solid susceptors (62) and patterned susceptors (20) may be formed from a common thin metal film on a common polymer barrier layer and laminated to a common structural backing layer. An embossed region of a microwavable package may promote crisping of a food product by allowing air to circulate between the food product and an interior surface of the microwavable package. The package has solid susceptors (62) and patterned susceptors that are formed from a common thin metal film on a common polymer barrier layer and laminated to a common structural backing layer. The patterned susceptors are a conductive grid/grid of conductive or nonconductive shapes e.g. squares, triangles, circles. A base allows air to circulate between food product and an interior surface of the package. An independent claim is also included for a method of packaging a food product to be cooked with microwave energy.

IPC 1-7
B65D 81/34; **B65D 5/66**

IPC 8 full level
B65D 5/30 (2006.01); **B65D 5/66** (2006.01); **B65D 81/34** (2006.01)

CPC (source: EP)
B65D 5/302 (2013.01); **B65D 5/6664** (2013.01); **B65D 81/3453** (2013.01); **B65D 2205/00** (2013.01); **B65D 2581/344** (2013.01); **B65D 2581/3466** (2013.01); **B65D 2581/3467** (2013.01); **B65D 2581/3472** (2013.01); **B65D 2581/3477** (2013.01); **B65D 2581/3479** (2013.01); **B65D 2581/3495** (2013.01); **B65D 2581/3497** (2013.01); **B65D 2581/3498** (2013.01)

Citation (applicant)
• US 6501059 B1 20021231 - MAST ROY LEE [US]
• GB 2211380 A 19890628 - INT PAPER CO [US]
• EP 0010683 W 20001026
• US 5614259 A 19970325 - YANG PETER Y [US], et al
• US 4959120 A 19900925 - WILSON DAVID [CA]
• US 4685997 A 19870811 - BECKETT DONALD E [CA]
• US 4610755 A 19860909 - BECKETT DONALD E [CA]
• US 4552614 A 19851112 - BECKETT DONALD E [CA]

Cited by
US7824719B2; JP2012502859A; DE102014215355A1; DE102011052149A1; EP2230192A3; EP2510285A4; CN102224766A; EP2342945A4; DE102008035240A1; EP2149347A3; DE102008035240B4; EP2551216A1; US10577144B2; WO2010033557A3; WO2016144666A1; WO2007136839A2; WO2010033250A1; US8759730B2; USD899246S; USD999055S; US9078296B2; US9567149B2; US10336500B2; WO2007136839A3; WO2007027816A1; WO2007127235A3; WO2006110685A3; WO2010033561A3; WO2014012982A1; US11059621B2; US11939121B2; USD1042122S; US10358254B2; USD1042117S; USD1044494S; JP2009506299A; US8063344B2; US8063345B2; USD842095S; US10232973B2; USD1042121S; US10661940B2; US11440697B2; US7652233B2; US8253083B2; USD1042118S; USD1042116S; USD1042120S; USD1042119S; US11827430B2; US11952181B2

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1481922 A2 20041201; **EP 1481922 A3 20081112**

DOCDB simple family (application)
EP 04076596 A 20040528