

Title (en)

Sealing device for applying a plastic foil on a substrate material.

Title (de)

Siegeleinheit zum Aufbringen einer Kunststoffolie auf ein Substratmaterial

Title (fr)

Dispositif de scellage pour appliquer un film plastique sur un matériau de substrat.

Publication

EP 1584448 B1 20080514 (DE)

Application

EP 05102334 A 20050323

Priority

DE 102004017429 A 20040408

Abstract (en)

[origin: EP1584448A1] A sealing unit (8) comprises a sealing plate (11) with heated active surface and back plate (9), die cutting unit (16) with die cutting knife (15), and counter plate for making die cuts at selected locations in the planar substrate material in the region of the applied plastic foil. The sealing plate has set(s) of raised and depressed regions on its active surface. A sealing unit comprises a sealing plate with heated active surface and back plate, die cutting unit with die cutting knife, and counter plate for making die cuts at selected locations in the planar substrate material (1) in the region of the applied plastic foil (7). The sealing plate generates heat and pressure to the substrate material during the sealing process. It has set(s) of raised regions (14) and depressed regions (13) on its active surface facing the back plate and the location of the depressed regions in the sealing plate corresponds to the location of the die cutting knife, so that cut is made at the selected positions in the substrate material where, because of the depressed regions of the sealing plate, there is reduced heating of the substrate material and associated laminations.

IPC 8 full level

B29C 65/04 (2006.01); **B65B 51/10** (2006.01); **B65B 51/14** (2006.01); **B65B 61/00** (2006.01)

CPC (source: EP US)

B65B 51/14 (2013.01 - EP US); **B65B 61/00** (2013.01 - EP US); **Y10T 156/1317** (2015.01 - EP US); **Y10T 156/1343** (2015.01 - EP US); **Y10T 156/1378** (2015.01 - EP US)

Cited by

CN113021921A

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1584448 A1 20051012; **EP 1584448 B1 20080514**; AT E395179 T1 20080515; AU 2005201093 A1 20051027; AU 2005201093 B2 20100923; BR PI0501173 A 20051116; CN 100509569 C 20090708; CN 1680172 A 20051012; DE 102004017429 A1 20051027; DE 502005004072 D1 20080626; ES 2306008 T3 20081101; JP 2005298067 A 20051027; JP 4762595 B2 20110831; MX PA05003443 A 20051018; PL 1584448 T3 20080930; US 2005223676 A1 20051013; US 7422045 B2 20080909

DOCDB simple family (application)

EP 05102334 A 20050323; AT 05102334 T 20050323; AU 2005201093 A 20050311; BR PI0501173 A 20050330; CN 200510065075 A 20050408; DE 102004017429 A 20040408; DE 502005004072 T 20050323; ES 05102334 T 20050323; JP 2005111617 A 20050408; MX PA05003443 A 20050331; PL 05102334 T 20050323; US 8496105 A 20050321