

Title (en)
CLOSING DEVICE FOR A CONTAINER CONSISTING OF LAMINATED PAPER OR CARDBOARD

Title (de)
VERSCHLUSSVORRICHTUNG FÜR EIN BEHÄLTNIS AUS LAMINIERTEM PAPIER ODER KARTON

Title (fr)
DISPOSITIF DE FERMETURE D'UN CONTENANT EN PAPIER LAMINE OU EN CARTON

Publication
EP 1608561 B1 20090617 (DE)

Application
EP 04720567 A 20040315

Priority
• CH 2004000150 W 20040315
• CH 4792003 A 20030321

Abstract (en)
[origin: WO2004083055A1] During the opening of containers (B) to the top of which a stopper-type lower part (2) is fixed, a cylindrical piercing element (3) mounted in said lower part can be driven by a means (44) in such a way that it moves downwards in a helical manner in a screw cap (4). Said piercing element (3) has a cutting element (33) which cuts the container (B) open. If a plastic film of the container (B) consisting of laminated material does not separate from the tip (36) of the cutting element (33), the film stretches. The stretched film can then be pierced by a perforating tooth (38) succeeding the cutting element (33).

IPC 8 full level
B65D 5/74 (2006.01)

CPC (source: EP US)
B65D 5/748 (2013.01 - EP US)

Cited by
US10676261B2; US11718457B2

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)
WO 2004083055 A1 20040930; AT E433920 T1 20090715; AU 2004222221 A1 20040930; DE 502004009610 D1 20090730; EP 1608561 A1 20051228; EP 1608561 B1 20090617; JP 2006520725 A 20060914; RU 2005132392 A 20070427; RU 2337864 C2 20081110; US 2006261028 A1 20061123; ZA 200507565 B 20070328

DOCDB simple family (application)
CH 2004000150 W 20040315; AT 04720567 T 20040315; AU 2004222221 A 20040315; DE 502004009610 T 20040315; EP 04720567 A 20040315; JP 2006504155 A 20040315; RU 2005132392 A 20040315; US 54934404 A 20040315; ZA 200507565 A 20040315