

Title (en)
Lightweight structured suitcase

Title (de)
Koffer in Leichtbauweise

Title (fr)
Valise de construction légère

Publication
EP 1867246 A1 20071219 (EN)

Application
EP 06425409 A 20060616

Priority
EP 06425409 A 20060616

Abstract (en)
A suitcase provided with two stiffening mouldings (2a,2b), bonded to two shells (1a,1b) respectively. The two mouldings (2a,2b) each have a seat (7a,7b) in which the terminal parts of the shells (1a,1b) can be inserted. The interface surfaces are subjected to pre-treatment with cold plasma so as to form an activated surface layer (9) upon them which encourages adhesion between the adhesive (3) placed between the mouldings (2a,2b) and the shells (1a,1b) in order to bond them firmly together. In this way structured suitcases can even be obtained with thin and therefore very light shells whose resistance to squashing and impacts is due to the mouldings which can be manufactured with the necessary robustness. A method for the production of such suitcases through the moulding of plastics materials is claimed.

IPC 8 full level
A45C 13/04 (2006.01); **A45C 5/03** (2006.01)

CPC (source: EP US)
A45C 13/04 (2013.01 - EP US); **A45C 5/03** (2013.01 - EP US); **A45C 2005/037** (2013.01 - EP US)

Citation (search report)

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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)
EP 1867246 A1 20071219; EP 1867246 B1 20141119; CN 101489434 A 20090722; CN 101489434 B 20110202; US 2009145710 A1 20090611; WO 2007144137 A1 20071221

DOCDB simple family (application)
EP 06425409 A 20060616; CN 200780022434 A 20070612; EP 2007005161 W 20070612; US 30437607 A 20070612