

Title (en)
A recyclable sheet material and a container thereof

Title (de)
Recyclingfähiges Plattenmaterial und Behälter davon

Title (fr)
Matériau en feuille recyclable et récipient associé

Publication
EP 2682523 A1 20140108 (EN)

Application
EP 12004927 A 20120703

Priority
EP 12004927 A 20120703

Abstract (en)
The present invention relates to a recyclable sheet material as defined below and a container, preferably a cup, based on cellulosic material for water containing foodstuff formed of such recyclable sheet material comprising a) a paper board containing a water repellent and optionally fat repellent sizing agent, b) an adhesive layer based on at least one polymer having a water solubility equal or less than 4 % per weight / 100 ml water at 25 °C and a surface energy of equal or greater 38 mJ/m² at 20 °C (test liquid:water) in an amount of providing a Cobb value of equal or less than 15 g/ M² per 60 sec is coated on at least one uncoated surface of the paper board and combined with the paper layer c), c) a paper layer impregnated with a water barrier impregnation in an amount of providing a Cobb value of equal or less than 17 g/ M² per 60 sec, d) a heat sealable and water barrier coating on said impregnated paper layer c) in an amount of providing a Cobb value of equal or less than 8 g/ M² per 600 sec of the coated board which coating is based on a polymer having a T_g of equal or less than 30 °C (measured according to DSC).

IPC 8 full level
D21H 27/32 (2006.01)

CPC (source: EP)
D21H 27/32 (2013.01); **D21H 19/20** (2013.01); **D21H 19/24** (2013.01); **D21H 21/16** (2013.01); **D21H 27/10** (2013.01)

Citation (search report)
• [X] WO 9944909 A1 19990910 - PETERSON SCANPROOF AKTIEBOLAG [SE], et al
• [A] EP 0972635 A1 20000119 - MINNESOTA MINING & MFG [US]
• [A] WO 02090206 A1 20021114 - TETRA LAVAL HOLDINGS & FINANCE [CH], et al
• [A] WO 2012061704 A1 20120510 - INT PAPER CO [US], et al
• [A] US 2010120313 A1 20100513 - BOHME REINHARD D [US], et al
• [A] WO 2009112255 A1 20090917 - TETRA LAVAL HOLDINGS & FINANCE [CH], et al
• [A] US 2003232211 A1 20031218 - KENDALL DAVID PAUL [US], et al
• [A] EP 1418272 A1 20040512 - NISSIN FOOD PRODUCTS LTD [JP], et al
• [A] WO 0146523 A2 20010628 - ADVANCED PLASTICS TECHNOLOGIES [GB], et al
• [A] US 2009297842 A1 20091203 - AKIYAMA KOUSUKE [JP]

Cited by
CN115552074A; CN109804118A; EP3363947A1; SE2051227A1; SE545995C2; US9732474B2; US10876256B2; WO2022026899A1; WO2022192387A1; WO2018019919A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2682523 A1 20140108

DOCDB simple family (application)
EP 12004927 A 20120703