

Title (en)
COMBINED MULTI-LAYERED WATER SOLUBLE FILM AND PROCESS FOR PRODUCING THE SAME

Title (de)
KOMBINIERTE MEHRSCHICHTIGE WASSERLÖSLICHE FOLIE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
FILM HYDROSOLUBLE MULTICOUCHE COMBINE ET PROCEDE DE PRODUCTION DE CELUI-CI

Publication
EP 1863635 A2 20071212 (EN)

Application
EP 06809897 A 20060324

Priority
• IN 2006000105 W 20060324
• IN 344MU2005 A 20050324

Abstract (en)
[origin: WO2007010553A2] This invention relates to a combined water soluble film wherein at least one layer is a solution cast water soluble film on a liner and at least one layer is a preformed water soluble film, preferably a thermally extruded water soluble film. The said water soluble films may be edible or non edible. The said water-soluble film on a liner is coated with a tie-coat to enable coating of a water-based binder used for combining the water soluble films without dissolving/damaging WSF on liner. The water based binder used for combining the said water soluble films may be incorporated with active ingredients like flavours, perfumes, detergents, enzymes, softeners, active agents for cleaning laundry, dishes, floorings, walls, furniture; various agrochemicals like pesticides, insecticides, weedicides, fungicides, bio-pesticides; agro nutrients like urea, fertilizers; dyes, pigments, fluff, pulp, super absorbents and active pharma ingredients like vitamins, drugs, medicine. The said combined water soluble film so achieved will be a substantially pinhole free multi-layered water soluble film of desired mechanical strength at low cost. The invention farther relates to the methods/processes used for producing a cast-extruded or cast-cast combined WSF.

IPC 8 full level
B32B 27/00 (2006.01)

CPC (source: EP US)
B32B 9/02 (2013.01 - US); **B32B 27/00** (2013.01 - EP); **B32B 27/08** (2013.01 - US); **B32B 27/306** (2013.01 - US); **B32B 27/36** (2013.01 - US);
B32B 2309/02 (2013.01 - US); **B32B 2317/20** (2013.01 - US); **B32B 2329/04** (2013.01 - US); **B32B 2367/00** (2013.01 - US)

Citation (search report)
See references of WO 2007010553A2

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)
WO 2007010553 A2 20070125; WO 2007010553 A3 20070614; WO 2007010553 B1 20070719; EP 1863635 A2 20071212;
ZA 200709177 B 20090624

DOCDB simple family (application)
IN 2006000105 W 20060324; EP 06809897 A 20060324; ZA 200709177 A 20060324