

Title (en)
COPOLYMERS, PRODUCTION AND USE THEREOF

Title (de)
COPOLYMERISATE, IHRE HERSTELLUNG UND VERWENDUNG

Title (fr)
COPOLYMERES, LEUR PREPARATION ET LEUR UTILISATION

Publication
EP 1776391 A1 20070425 (DE)

Application
EP 05778453 A 20050730

Priority
• EP 2005008278 W 20050730
• DE 102004038217 A 20040805

Abstract (en)
[origin: WO2006015745A1] The invention relates to copolymers which are produced by copolymerisation in at least two steps. The invention is characterised by the following steps: (A) at least one (co)polymer is produced from a monomer or a mixture of comonomers, comprising (a1) 80 - 100 wt. % of at least one ethylenically unsaturated carboxylic acid, (a2) 0 - 20 wt. % of at least one C₁-C₂₂-alkylester of at least one ethylenically unsaturated carboxylic acid, (a3) 0 - 10 wt. % of at least one additional ethylenically unsaturated compound, whereby the percentages in wt. % are related to the total amount of comonomers of the related step, and the thus obtained (co)polymer undergoes the following step (B) wherein the (co)polymer is converted with an additional comonomer or another mixture of comonomers, comprising (b1) 0 - 30 wt. % of at least one ethylenically unsaturated carboxylic acid, (b2) 70 - 100 wt. % of at least one C₁-C₂₂-alkylester of at least one ethylenically unsaturated carboxylic acid, (b3) 0 - 10 wt. % of at least one additional ethylenically unsaturated compound, whereby the percentages in wt. % are related to the total amount of comonomers of the related additional step.

IPC 8 full level
C08F 2/00 (2006.01); **C08F 220/06** (2006.01); **C08F 267/02** (2006.01); **C08F 291/00** (2006.01); **C14C 3/22** (2006.01); **C14C 9/00** (2006.01)

CPC (source: EP US)
C08F 220/06 (2013.01 - EP US); **C08F 220/1808** (2020.02 - EP US); **C08F 265/02** (2013.01 - EP US); **C14C 9/00** (2013.01 - EP US); **Y10T 428/4935** (2015.04 - EP US)

Citation (search report)
See references of WO 2006015745A1

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

DOCDB simple family (publication)
WO 2006015745 A1 20060216; AR 050094 A1 20060927; BR PI0514114 A 20080527; CN 1993382 A 20070704; DE 102004038217 A1 20060316; EP 1776391 A1 20070425; US 2008201864 A1 20080828

DOCDB simple family (application)
EP 2005008278 W 20050730; AR P050103241 A 20050804; BR PI0514114 A 20050730; CN 200580026570 A 20050730; DE 102004038217 A 20040805; EP 05778453 A 20050730; US 57265705 A 20050730