

Title (en)

BIO BASED BIODEGRADABLE POLYMER COMPOSITIONS AND USE OF SAME

Title (de)

BIOLOGISCH ABBAUBARE POLYMERZUSAMMENSETZUNGEN AUF BIOBASIS UND VERWENDUNG DAVON

Title (fr)

COMPOSITIONS POLYMERES BIODEGRADABLES D'ORIGINE BIOLOGIQUE ET UTILISATION

Publication

EP 1966308 A1 20080910 (EN)

Application

EP 06765428 A 20060516

Priority

- IB 2006001281 W 20060516
- US 29351705 A 20051202

Abstract (en)

[origin: WO2007063361A1] A biodegradable polymer composition useful for manufacturing biodegradable items or articles with improved mechanical properties comprising poly(lactic acid) polymer (PLA), starch and protein material, obtainable by providing poly(lactic acid) polymer (PLA), starch and protein material in such ratios that PL A/starch blend represents at least 95% weight of the above three components and that starch represents at least 23% weight of PLA; mixing the above three components at room temperature in a controlled moisture atmosphere to afford a homogeneous mixture; subjecting the above homogeneous mixture to extrusion compounding under controlled heat, speed and pressure conditions; and drying down to a maximum of approximately 1% weight of moisture and subsequently conditioning the extruded polymeric composition.

IPC 8 full level

C08L 67/04 (2006.01); **C08J 3/00** (2006.01); **C08L 3/02** (2006.01); **C08L 89/00** (2006.01)

CPC (source: EP US)

C08L 3/02 (2013.01 - EP US); **C08L 67/04** (2013.01 - EP US); **C08L 89/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2007063361A1

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 2007063361 A1 20070607; EP 1966308 A1 20080910; US 2007129467 A1 20070607

DOCDB simple family (application)

IB 2006001281 W 20060516; EP 06765428 A 20060516; US 29351705 A 20051202