

Title (en)
Biodegradable binding twine

Title (de)
Biologisch abbaubare Bindegarne

Title (fr)
Fil biodégradable

Publication
EP 1842944 A2 20071010 (DE)

Application
EP 07105204 A 20070329

Priority
DE 102006016538 A 20060407

Abstract (en)
A yarn consists of material that is both biologically degradable and suitable for composting. The core material is a natural fiber. The sleeve is a biopolymer that is both biologically degradable and suitable for composting. The core is sisal. The sleeve is poly-lactic acid. The ratio of the sleeve material to core material is in the range 5 to 40%. Further claimed is a process to produce a cord whose core material is a natural fiber and/or a man-made fiber with a sleeve winding that is both biologically degradable and suitable for composting. The sleeve is bonded to the core by exposure to hot air.

Abstract (de)
Beschrieben wird ein biologisch abbaubares und kompostierbares Garn, das ein Kernmaterial aus Naturfasern und/oder Chemiefasern enthält und ein Hüllmaterial aus biologisch abbaubaren und kompostierbaren Biopolymeren umfasst, sowie ein Verfahren zur Herstellung des biologisch abbaubaren und kompostierbaren Garns.

IPC 8 full level
D02G 3/04 (2006.01); **D02G 3/36** (2006.01)

CPC (source: EP)
D02G 3/04 (2013.01); **D02G 3/36** (2013.01)

Citation (applicant)
• ES 2282021 A1 20071001 - MIMCORD S A [ES]
• DE 3417543 A1 19841115 - KAPOSPLAST KEFE ES MUEANYAGIPA [HU]
• DE 2344221 A1 19750313 - RUDOLF HILLER FA
• DE 19800842 C2 20030618 - BARICH GERHARD [DE]

Cited by
EP3862285A4; IT202000015400A1; AT520161A1; AT520161B1; WO2014128658A1; WO2016103104A1; WO2014097039A1; US10590577B2; WO2012077066A1; US10787310B2; WO2012080908A1; US9422104B2; WO2022058950A1; WO2015193774A1; EP3388363A1; US11441251B2

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1842944 A2 20071010; EP 1842944 A3 20080528; EP 1842944 B1 20100526; EP 1842944 B3 20120208; EP 1842944 B9 20120725;
AT E469253 T1 20100615; DE 102006016538 A1 20071108; DE 502007003898 D1 20100708; DK 1842944 T3 20100816;
ES 2345677 T3 20100929; ES 2345677 T7 20120614; ES 2345677 T9 20121226; PT 1842944 E 20100809

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EP 07105204 A 20070329; AT 07105204 T 20070329; DE 102006016538 A 20060407; DE 502007003898 T 20070329;
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