

Title (en)

ABSORBENT COMPOSITES CONTAINING BIODEGRADABLE REINFORCING FIBRES

Title (de)

SAUGFÄHIGE VERBUNDMATERIALIEN MIT BIOLOGISCH ABBAUBAREN VERSTÄRKUNGSFASERN

Title (fr)

COMPOSITES ABSORBANTS CONTENANT DES FIBRES DE RENFORCEMENT BIODEGRADABLES

Publication

**EP 1830894 A1 20070912 (EN)**

Application

**EP 05818779 A 20051109**

Priority

- US 2005040839 W 20051109
- US 2755604 A 20041230

Abstract (en)

[origin: US2006147689A1] An absorbent composite contains a superabsorbent material and thermoplastic biodegradable reinforcing fibers, and may also contain pulp fibers. The superabsorbent material may be biodegradable, providing a biodegradable absorbent composite. The superabsorbent material may have a gel strength from about 500 dynes/cm<sup>2</sup> to about 80,000 dynes/cm<sup>2</sup>. The biodegradable reinforcing fibers may contain fibers of a polyester such as poly(lactic acid). The biodegradable reinforcing fibers may be wettable, reducing or eliminating the need for treating the surface of the fibers with a wetting agent such as a surfactant, and may provide desirable performance without being bonded to the other components.

IPC 8 full level

**A61L 15/26** (2006.01)

CPC (source: EP KR US)

**A61L 15/26** (2013.01 - EP KR US); **A61L 15/60** (2013.01 - EP KR US); **Y10T 428/249924** (2015.04 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2922** (2015.01 - EP US)

Citation (search report)

See references of WO 2006073556A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

**US 2006147689 A1 20060706**; EP 1830894 A1 20070912; KR 20070089974 A 20070904; MX 2007007870 A 20070713; WO 2006073556 A1 20060713

DOCDB simple family (application)

**US 2755604 A 20041230**; EP 05818779 A 20051109; KR 20077014921 A 20070629; MX 2007007870 A 20051109; US 2005040839 W 20051109