

Title (en)

Mixed polymer superabsorbent fibers containing cellulose

Title (de)

Gemischte superabsorbierende Polymerfasern mit Zellulose

Title (fr)

Fibres mixtes superabsorbantes de polymère contenant de la cellulose

Publication

**EP 1911467 A1 20080416 (EN)**

Application

**EP 07253773 A 20070924**

Priority

- US 53791806 A 20061002
- US 53791206 A 20061002

Abstract (en)

A mixed polymer composite fiber including a carboxyalkyl cellulose, a galactomannan polymer or a glucomannan polymer, and cellulose fiber.  
A method for making mixed polymer composite fibers containing cellulose fibers in which cellulose fibers are dispersed in an aqueous solution comprising a carboxyalkyl cellulose and a galactomannan polymer or a glucomannan polymer in water to provide an aqueous fiber dispersion; the aqueous dispersion treated with a first crosslinking agent to provide a gel; the gel mixed with a water-miscible solvent to provide composite fibers; and the composite fibers treated with a second crosslinking agent to provide crosslinked fibers.

IPC 8 full level

**A61L 15/28** (2006.01)

CPC (source: EP KR)

**D01D 5/40** (2013.01 - EP KR); **D01F 1/10** (2013.01 - EP KR); **D01F 2/24** (2013.01 - EP KR); **D10B 2509/026** (2013.01 - KR)

Citation (search report)

- [X] US 4128692 A 19781205 - REID ALBERT R
- [X] US 5847031 A 19981208 - KLIMMEK HELMUT [DE], et al
- [X] US 4143163 A 19790306 - HUTCHISON BRUCE R, et al

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CN112592749A; WO2009080696A3

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 RS

DOCDB simple family (publication)

**EP 1911467 A1 20080416**; CA 2603476 A1 20080402; KR 20080030943 A 20080407; MX 2007012274 A 20081028

DOCDB simple family (application)

**EP 07253773 A 20070924**; CA 2603476 A 20070920; KR 20070099099 A 20071002; MX 2007012274 A 20071002