

Title (en)
IMPROVED POLYMER-GRAFTED COTTON FIBERS AND PRODUCTS

Title (de)
VERBESSERTE MIT POLYMEREN GEPPROPFTE BAUMWOLLFASERN UND PRODUKTE

Title (fr)
FIBRES DE COTON A GREFFE POLYMERE AMELIOREES ET PRODUITS ASSOCIES

Publication
EP 1377709 B1 20130911 (EN)

Application
EP 02723634 A 20020327

Priority

- US 0209438 W 20020327
- US 82473201 A 20010404
- US 82528301 A 20010404
- US 82528701 A 20010404

Abstract (en)
[origin: WO02081811A1] A solution for forming a graft substrate containing a graft initiator, a catalyst for activating the graft initiator, a polymerizable silicon-containing material, and at least two additional prepolymers, each of the silicon-containing material and the prepolymers which includes a functional group for reaction with an activated site on the substrate for grafting a copolymer thereto or with an activated site on the grafted copolymer. The treated fiber exhibits excellent crockfastness, color fastness, and abrasion resistance, strength, and has a soft hand. The composition is optimized for printed and unprinted cotton and poly-cotton. In one embodiment, the treated cotton is stretchable and resilient. In another embodiment method of printing on cotton is included.

IPC 8 full level
D06M 14/04 (2006.01); **D06M 14/22** (2006.01); **D06M 15/643** (2006.01); **D06P 5/08** (2006.01)

CPC (source: EP)
D06M 14/04 (2013.01); **D06M 14/22** (2013.01); **D06M 15/643** (2013.01); **D06P 5/08** (2013.01); **D06M 2200/35** (2013.01); **D06M 2200/50** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02081811 A1 20021017; CA 2442836 A1 20021017; CA 2442836 C 20120103; CN 1266330 C 20060726; CN 1513072 A 20040714; CR 7133 A 20040415; DO P2002000374 A 20021215; EG 23282 A 20041031; EP 1377709 A1 20040107; EP 1377709 B1 20130911; HK 1068155 A1 20050422; JP 2005503492 A 20050203; JP 4647188 B2 20110309; MX PA03009005 A 20040212; TW I299068 B 20080721

DOCDB simple family (application)
US 0209438 W 20020327; CA 2442836 A 20020327; CN 02810793 A 20020327; CR 7133 A 20031103; DO 2002000374 A 20020404; EG 20020348 A 20020402; EP 02723634 A 20020327; HK 05100085 A 20050106; JP 2002579563 A 20020327; MX PA03009005 A 20020327; TW 91106848 A 20020404