

Title (en)
PAPER WITH HIGHER OIL REPELLENCY

Title (de)
PAPIER MIT HOHEN ÖLABWEISENDEN EIGENSCHAFTEN

Title (fr)
PAPIER À POUVOIR OLÉOFUGE AMÉLIORÉ

Publication
EP 2906751 A4 20160608 (EN)

Application
EP 13845713 A 20131010

Priority
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Abstract (en)
[origin: US2014106165A1] This disclosure provides for a process for making an oil and grease resistant cellulosic material such as paper and paperboard, the process comprising applying a homogeneous aqueous dispersion of fluorochemical surface-modified nanoparticles to a cellulosic substrate to form a treated cellulosic substrate, and subsequently drying the treated cellulosic substrate to form an oil repellent cellulosic material. Fluorochemicals that can be used to modify the nanoparticles include fluoroalkylsilanes, ionic fluorochemicals, or fluorinated polyacrylate obtained by seeded emulsion polymerization of fluorinated acrylates on the nanoparticles. Paper, paperboard and cellulose fiber articles that have been modified by the disclosed processes have improved oil and grease resistance properties.

IPC 8 full level
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Citation (search report)
• [X] US 2010215894 A1 20100826 - IVERSON ISAAC KEENE [US], et al
• [X] US 2010009583 A1 20100114 - BRINGLEY JOSEPH F [US], et al
• [A] US 2009148653 A1 20090611 - BROWN GERALD ORONDE [US], et al
• See references of WO 2014059118A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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DOCDB simple family (application)
US 201314049346 A 20131009; BR 112015008150 A 20131010; CA 2887483 A 20131010; CL 2015000915 A 20150410; CN 201380060007 A 20131010; EP 13845713 A 20131010; KR 20157012037 A 20131010; MX 2015004646 A 20131010; US 2013064296 W 20131010