

Title (en)
GREASEPROOF PAPER WITH LOWER CONTENT OF FLUOROCHEMICALS

Title (de)
FETTDICHTES PAPIER MIT NIEDRIGEM GEHALT AN FLUORCHEMIKALIEN

Title (fr)
PAPIER INGRAISSABLE À FAIBLE TENEUR EN COMPOSÉS FLUORÉS

Publication
EP 2906752 A4 20160608 (EN)

Application
EP 13845970 A 20131010

Priority
• US 201261713346 P 20121012
• US 2013064302 W 20131010

Abstract (en)
[origin: US2014102651A1] Methods for making and using aqueous dispersions for imparting grease/oil resistance to paper, paperboard and cellulose fiber products generally are provided. In particular, there are provided aqueous colloidal dispersions comprising nanoparticles of at least one colloidal clay and an aqueous fluorochemical, which can be applied to, on, or in paper, paperboard and cellulose fiber products. The paper and products that have been modified using these aqueous dispersions have good resistance to oil and grease penetration with lower overall amounts of aqueous fluorochemicals being required. Additional methods for imparting grease/oil resistance to paper, paperboard and cellulose fiber products generally are provided. In particular, there is provided a process for improving the oil and grease resistance of a cellulose fiber material, the process comprising: a) applying a pretreatment composition comprising a cationic polymer to a cellulose fiber material in a size press to form a pretreated cellulose substrate; b) drying the pretreated cellulose substrate; and c) applying a fluorochemical composition to the dry pretreated cellulose substrate to form an oil-repellent cellulose fiber material.

IPC 8 full level
D21H 21/14 (2006.01); **D21H 17/00** (2006.01); **D21H 17/11** (2006.01); **D21H 17/44** (2006.01); **D21H 17/56** (2006.01); **D21H 17/63** (2006.01); **D21H 21/16** (2006.01); **D21H 27/00** (2006.01)

CPC (source: EP US)
D21H 17/11 (2013.01 - EP US); **D21H 17/63** (2013.01 - EP US); **D21H 17/74** (2013.01 - EP US); **D21H 21/16** (2013.01 - EP US); **D21H 27/00** (2013.01 - EP US)

Citation (search report)
• [Y] US 5654039 A 19970805 - WENZEL DONNA J [US], et al
• [Y] US 2004161594 A1 20040819 - JOYCE MARGARET K [US], et al
• See references of WO 2014059121A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2014102651 A1 20140417; BR 112015008058 A2 20170704; CA 2887362 A1 20140417; CL 2015000914 A1 20151218; CN 104903515 A 20150909; CN 104903515 B 20180413; EP 2906752 A1 20150819; EP 2906752 A4 20160608; KR 20150068967 A 20150622; MX 2015004647 A 20151116; WO 2014059121 A1 20140417

DOCDB simple family (application)
US 201314049337 A 20131009; BR 112015008058 A 20131010; CA 2887362 A 20131010; CL 2015000914 A 20150410; CN 201380060001 A 20131010; EP 13845970 A 20131010; KR 20157011424 A 20131010; MX 2015004647 A 20131010; US 2013064302 W 20131010