

Title (en)

DETERGENT FOR KRAFT PULP AND PROCESS FOR PRODUCING KRAFT PULP WITH THE SAME

Title (de)

REINIGER FÜR KRAFTZELLSTOFF UND HERSTELLUNGSVERFAHREN FÜR KRAFTZELLSTOFF MIT DEMSELBEN

Title (fr)

DÉTERGENT POUR PÂTE KRAFT ET PROCÉDÉ DE PRODUCTION DE PÂTE KRAFT AVEC CELUI-CI

Publication

EP 2236665 A1 20101006 (EN)

Application

EP 09703584 A 20090121

Priority

- JP 2009050890 W 20090121
- JP 2008012052 A 20080122

Abstract (en)

A detergent for Kraft pulp, containing a nonionic surfactant containing at least one compound expressed by any of the following general formulae 1 to 3: #####R 1 O-(PO) n -[(EO) m ·(PO) k]H#####General Formula 1 #####R 2 -CO-(AO) y -OR 3 #####General Formula 2 wherein the detergent is used for washing a raw material of pulp after decomposing a lignin substance contained in the cooked raw material of pulp using oxygen, and wherein the nonionic surfactant has a clouding point lower than a washing temperature during washing of the raw material of pulp.

IPC 8 full level

D21C 9/02 (2006.01); **D21C 9/08** (2006.01)

CPC (source: EP)

C11D 1/44 (2013.01); **C11D 1/72** (2013.01); **C11D 1/722** (2013.01); **C11D 1/74** (2013.01); **D21C 9/02** (2013.01); **D21C 9/086** (2013.01); **D21C 9/10** (2013.01); **D21C 9/147** (2013.01)

Cited by

RU2746828C2; CN104411882A; AU2013249725B2; AU2017204445B2; EP3495550A1; US11746468B2; WO2013158384A1; US10174455B2; US10294614B2; US10753043B2; US9617686B2; US9777432B2; US9909257B2; US10106927B2; US10407830B2; US10731293B2; US11111628B2; USRE49570E

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2236665 A1 20101006; **EP 2236665 A4 20121212**; CN 101939481 A 20110105; CN 101939481 B 20140402; JP 5475469 B2 20140416; JP WO2009093615 A1 20110526; WO 2009093615 A1 20090730

DOCDB simple family (application)

EP 09703584 A 20090121; CN 200980103194 A 20090121; JP 2009050890 W 20090121; JP 2009550536 A 20090121