

Title (en)

BORAX-FREE STARCH ADHESIVE COMPOSITIONS

Title (de)

BORAXFREIE STÄRKELEIMZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS DE COLLE AMYLACÉE EXEMpte DE BORAX

Publication

EP 2859058 A1 20150415 (DE)

Application

EP 12808293 A 20121207

Priority

- EP 2012074790 W 20121207
- EP 11009577 A 20111203

Abstract (en)

[origin: EP2599823A1] Use of solid sodium aluminate with sodium oxide/alumina ratio of 1-1.5, alumina content of 53-55% and a particle size distribution of 0.1-1 mm, where the amount of solid sodium aluminate is 1-35, preferably 2-10 wt.% with respect to starch portion, or an aqueous sodium aluminate solution with a solid content of 10-45 wt.% based on starch portion, sodium oxide/alumina ratio of 1.5-1.5 and alumina content of 5-25 wt.%, as component in borax-free starch glue for paper and corrugated cardboard production, is claimed.

IPC 8 full level

C09J 103/02 (2006.01); **D21H 17/28** (2006.01)

CPC (source: EP US)

C09J 11/04 (2013.01 - EP US); **C09J 103/02** (2013.01 - EP US); **D21H 17/28** (2013.01 - EP US); **D21H 17/66** (2013.01 - US);
D21H 17/74 (2013.01 - US); **D21H 21/16** (2013.01 - EP US); **D21H 27/10** (2013.01 - EP US); **C08K 3/22** (2013.01 - EP US);
C08K 2003/2227 (2013.01 - EP US)

Citation (search report)

See references of WO 2013087530A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2599823 A1 20130605; BR 112014013429 A2 20170613; BR 112014013429 A8 20170613; CA 2857252 A1 20130620;
CN 104364335 A 20150218; EP 2859058 A1 20150415; IL 232899 A0 20140731; US 2015233058 A1 20150820; WO 2013087530 A1 20130620;
ZA 201403831 B 20150624

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EP 12808293 A 20121207; EP 2012074790 W 20121207; IL 23289914 A 20140529; US 201214362302 A 20121207; ZA 201403831 A 20140526