

Title (en)

STARCH BINDER COMPOSITION FOR FIBER MATS

Publication

**EP 0354023 A3 19900801 (EN)**

Application

**EP 89307872 A 19890802**

Priority

US 22777688 A 19880803

Abstract (en)

[origin: EP0354023A2] A starch binder composition for fiber mats is disclosed which comprises a starch, a starch crosslinking agent, an anti-wicking agent and preferably a polymer strength additive. When the starch binder composition is applied to a fiber mat, e.g. a polyester fiber mat, the treated mat exhibits less stretching, shrinkage and wicking than is common with conventional latex binder systems. The starch binder composition can also be used on glass mats as a partial or total replacement for conventional urea-formaldehyde resin binders with the treated mat exhibiting improved dry, wet and hot wet tensile strength when compared to a urea formaldehyde resin binder containing a conventional acrylic latex.

IPC 1-7

**D04H 1/64**; **C09J 103/04**

IPC 8 full level

**C09K 21/14** (2006.01); **D04H 1/64** (2012.01)

CPC (source: EP)

**D04H 1/587** (2013.01); **D04H 1/64** (2013.01)

Citation (search report)

- [Y] GB 949179 A 19640212 - RICHARD FREUDENBERG, et al
- [YD] US 4695606 A 19870922 - FLOYD WILLIAM C [US], et al
- [A] FR 1120163 A 19560702 - BOZEL MALETRA
- [A] GB 766580 A 19570123 - TRIANGLE PRODUCTS LTD

Cited by

US10472546B2; WO2021197999A1; EP3299514A1; DE102015121397A1; EP4019479A1; EP3164454A4; US2014295090A1; US9580846B2; EP0573363A1; EP3077169A4; EP2199333A1; EP1885785A4; EP3779015A1; WO2022136698A1; US11453798B2; US2013130582A1; US2018086951A1; CN107869054A; US10119020B2; US10864653B2; US11230031B2; WO2013057086A1; US10913760B2; US11248108B2; US11401204B2; US11939460B2; US10767050B2; US11945979B2; WO2017072186A1; US11946582B2; US10738160B2; US11078332B2; US11814481B2; US10053558B2; US10570272B2; US10183416B2; US11332577B2; US10000639B2; US10934460B2; US11453780B2; US9745489B2; US9926464B2; US11325985B2; US11945883B2; US10968629B2; US11060276B2; US11459754B2; US9828287B2; US10287462B2; US10508172B2; US10759695B2; US11384203B2; US11401209B2; US11453807B2; US11725124B2; US11905206B2; EP2768865B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0354023 A2 19900207**; **EP 0354023 A3 19900801**; JP H0299655 A 19900411

DOCDB simple family (application)

**EP 89307872 A 19890802**; JP 19916689 A 19890731