

Title (en)

Sizing agent for staple fiber yarns and filament yarns.

Title (de)

Schlichtemittel für Stapelfaser- und Filamentgarne.

Title (fr)

Agent d'encollage pour des fils de fibres discontinues et de filaments continus.

Publication

EP 0476371 A1 19920325 (DE)

Application

EP 91114381 A 19910827

Priority

DE 4029348 A 19900915

Abstract (en)

The use of water-soluble or water-dispersible proteins grafted with monoethylenically unsaturated monomers as sizing agents for staple fibre yarns and filament yarns.

Abstract (de)

Verwendung von wasserlöslichen oder in Wasser dispergierbaren mit monoethylenisch ungesättigten Monomeren gepfropften Proteinen als Schlichtemittel für Stapelfaser- und Filamentgarne.

IPC 1-7

D06M 15/15

IPC 8 full level

D06M 13/02 (2006.01); **D06M 13/184** (2006.01); **D06M 13/203** (2006.01); **D06M 13/224** (2006.01); **D06M 13/322** (2006.01); **D06M 13/402** (2006.01); **D06M 13/41** (2006.01); **D06M 15/15** (2006.01); **D06M 15/263** (2006.01)

CPC (source: EP)

D06M 15/15 (2013.01)

Citation (search report)

- [A] US 3578492 A 19710511 - BOLINGER EDGAR D
- [AD] DE 1594905 A1 19690828 - BASF AG
- [AD] US 3651210 A 19720321 - SHEPLER TERRY H, et al
- [AD] US 4812550 A 19890314 - ERICKSON DAVID E [US], et al
- [A] DERWENT ACCESSION NO. 89-212 301, Questel Tele- systems (WPIL) DERWENT PUBLICATION LTD., London
- [A] DERWENT ACCESSION NO. 89-059 420, Questel Tele- systems (WPIL) DERWENT PUBLICATIONS LTD., London

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0476371 A1 19920325; **EP 0476371 B1 19940420**; AT E104712 T1 19940515; CA 2050032 A1 19920316; DE 4029348 A1 19920319; DE 59101437 D1 19940526; ES 2063422 T3 19950101; FI 914139 A0 19910903; FI 914139 A 19920316; JP H04245974 A 19920902; PT 98962 A 19920831; PT 98962 B 19990226

DOCDB simple family (application)

EP 91114381 A 19910827; AT 91114381 T 19910827; CA 2050032 A 19910827; DE 4029348 A 19900915; DE 59101437 T 19910827; ES 91114381 T 19910827; FI 914139 A 19910903; JP 22771191 A 19910909; PT 9896291 A 19910913