

Title (en)

PROCESS FOR THE AFTER-TREATMENT OF DYEINGS WITH REACTIVE DYES ON CELLULOSIC FIBROUS MATERIALS

Publication

**EP 0209787 B1 19890426 (DE)**

Application

**EP 86109260 A 19860707**

Priority

DE 3526101 A 19850722

Abstract (en)

[origin: US4704132A] Dyeings with reactive dyes on cellulose fiber materials are after-treated with an aqueous solution of a condensate which is obtainable by reacting (a) bisbenzylpiperzine with (b) ethylene chloride, an epihalohydrin, propylene chloride, 1,3-dichloro-2-hydroxypropane, bisepoxybutane or 1,4-dichlorobutane or a mixture of these, in a molar ratio of from 1:0.5 to 1:1.1, or by reacting (c) piperazine, bis-1,4-aminopropylpiperazine, 1-aminoethylpiperazine, 2-hydroxyethylpiperazine or 1-methylpiperazine, or a mixture of these, with a compound according to (b) in a molar ratio of from 1:0.5 to 1:1.1 and benzylating the condensate, the benzylation being carried out using 0.15-1.0 mole of benzyl chloride per equivalent of nitrogen in component (c). The cellulose fiber materials after-treated in this manner possess very good wetfastness.

IPC 1-7

**D06P 1/52**; **D06P 1/66**; **D06P 3/66**; **D06P 5/08**

IPC 8 full level

**D06P 1/52** (2006.01); **D06P 1/66** (2006.01); **D06P 5/08** (2006.01); **D06P 3/66** (2006.01)

CPC (source: EP US)

**D06P 1/5278** (2013.01 - EP US); **D06P 5/08** (2013.01 - EP US)

Cited by

US6147183A; EP0284010A3; US5942959A; US6025322A; US6251846B1; EP0242577A3; CZ300454B6; US6111056A; US6228828B1; US6482787B1; US6262011B1; US6465415B2; EP0934382B1; WO9914300A1; WO9914299A1; WO9914301A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0209787 A2 19870128**; **EP 0209787 A3 19870506**; **EP 0209787 B1 19890426**; AT E42591 T1 19890515; DE 3526101 A1 19870122; DE 3663047 D1 19890601; DK 344686 A 19870123; DK 344686 D0 19860721; JP S6221883 A 19870130; US 4704132 A 19871103

DOCDB simple family (application)

**EP 86109260 A 19860707**; AT 86109260 T 19860707; DE 3526101 A 19850722; DE 3663047 T 19860707; DK 344686 A 19860721; JP 16821986 A 19860718; US 88631986 A 19860717