

Title (en)

COMPOSITION WITH ABSORPTION CAPACITY FOR THE TREATMENT OF POLYESTER FIBROUS MATERIALS

Publication

EP 0342331 B1 19931013 (DE)

Application

EP 89104695 A 19890316

Priority

DE 3809928 A 19880324

Abstract (en)

[origin: JPH01314783A] PURPOSE: To obtain the subject textile drawing aids that can render polyester- containing fiber materials the antistatic properties, smoothness and/or flexibility by using a mixture of a specific oxidized polyethylene and a specific quaternary ammonium phosphate. CONSTITUTION: (A) An oxidized polyethylene with an average molecular weight of 3,000-8,000, the acid value of 25-60, the saponification value of 40-80 and a density of 0.94-1.09 g/cm³ and (B) a phosphate selected from quaternary ammonium phosphates of formula I [R<1> is a straight or branched chain 6-22C alkyl, formula II; R<2> and R<3> are each (AO)1-5 -H, methyl or the like or R<2> and R<3> are incorporated to form formula III; R<4> is a straight or branched chain 5-21C alkyl; R is same as cited above, a 6-22C alkyl; A is a 2-4C alkylene; P is 2 or 3; n is 1 or 2; m is 2 or 1] and quaternary ammonium phosphate of formula IV (R<5> is a straight or branched chain 5-21C alkyl; R<6> is OH or the like; R is same as cited above, a 6-22C alkyl; A, m, and n are each same as cited above) are emulsified in water and the emulsion is applied to polyester fiber products.

IPC 1-7

D06M 13/244; **D06M 13/46**; **D06M 15/227**; **D06M 15/507**

IPC 8 full level

C09K 3/16 (2006.01); **C09K 23/16** (2022.01); **C09K 23/28** (2022.01); **C09K 23/38** (2022.01); **C09K 23/42** (2022.01); **D06M 13/02** (2006.01); **D06M 13/152** (2006.01); **D06M 13/244** (2006.01); **D06M 13/282** (2006.01); **D06M 13/292** (2006.01); **D06M 13/295** (2006.01); **D06M 13/322** (2006.01); **D06M 13/325** (2006.01); **D06M 13/46** (2006.01); **D06M 13/463** (2006.01); **D06M 13/47** (2006.01); **D06M 13/473** (2006.01); **D06M 15/21** (2006.01); **D06M 15/227** (2006.01); **D06M 15/507** (2006.01); **D06M 101/00** (2006.01); **D06M 101/16** (2006.01); **D06M 101/30** (2006.01); **D06M 101/32** (2006.01)

CPC (source: EP US)

D06M 7/00 (2013.01 - EP US); **D06M 13/295** (2013.01 - EP US); **D06M 15/21** (2013.01 - EP US); **D06M 2200/40** (2013.01 - EP US); **Y10S 8/04** (2013.01 - US)

Cited by

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Designated contracting state (EPC)

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EP 0342331 A2 19891123; **EP 0342331 A3 19911121**; **EP 0342331 B1 19931013**; AT E95855 T1 19931015; AU 3170289 A 19890928; AU 614045 B2 19910815; BR 8901358 A 19891107; DE 3809928 A1 19891005; DE 58905875 D1 19931118; ES 2059597 T3 19941116; JP H01314783 A 19891219; US 4975091 A 19901204

DOCDB simple family (application)

EP 89104695 A 19890316; AT 89104695 T 19890316; AU 3170289 A 19890323; BR 8901358 A 19890322; DE 3809928 A 19880324; DE 58905875 T 19890316; ES 89104695 T 19890316; JP 7367989 A 19890324; US 32721089 A 19890322