

Title (en)  
METHOD FOR BRIGHTENING TEXTILE MATERIALS

Title (de)  
VERFAHREN ZUM AUFHELLEN VON TEXTILEN MATERIALIEN

Title (fr)  
PROCEDE POUR AZURER DES MATERIAUX TEXTILES

Publication  
**EP 1504149 A2 20050209 (DE)**

Application  
**EP 03717323 A 20030430**

Priority  
• DE 10219993 A 20020503  
• EP 0304497 W 20030430

Abstract (en)  
[origin: WO03093565A2] Disclosed is a method for brightening textile materials by treating said materials with optical brighteners in an aqueous bath. The inventive method is characterized by the fact that 20 to 80 percent by weight of compound (I) are used as optical brighteners, the percentage by weight being in relation to the total of all brightening compounds and up to 40 molar percent of (I) being in the form of cis isomer, 80 to 20 percent by weight of at least one compound (II), selected among (II m, p'), (II p, o'), (II o, o'), (II p, p'), and 0 to 30 percent by weight of a compound of general formula (III), in which R is selected among C4-C10 alkyl. The treatment is done in the presence of one or several shading blue or purple dyes from the class of anthrachinones, azo dyes, or methine dyes.

IPC 1-7  
**D06L 3/12**; **C11D 3/39**; **C11D 3/42**; **C07C 309/32**; **C11D 1/62**

IPC 8 full level  
**D06L 3/12** (2006.01); **C07C 309/32** (2006.01); **C09B 23/00** (2006.01); **C09B 57/00** (2006.01); **C09B 57/08** (2006.01); **C09B 67/22** (2006.01); **C09B 67/46** (2006.01); **C11D 1/62** (2006.01); **C11D 3/39** (2006.01); **C11D 3/42** (2006.01); **D06L 4/636** (2017.01); **D06L 4/657** (2017.01); **D06P 1/00** (2006.01); **D06P 1/08** (2006.01); **D06P 1/13** (2006.01); **D06P 1/16** (2006.01); **D06P 1/18** (2006.01); **D06P 1/20** (2006.01); **D06P 1/24** (2006.01); **D06P 3/54** (2006.01)

CPC (source: EP KR US)  
**C11D 1/62** (2013.01 - KR); **C11D 3/39** (2013.01 - KR); **C11D 3/42** (2013.01 - EP US); **D06L 4/60** (2017.01 - KR); **D06L 4/636** (2017.01 - EP US); **D06L 4/657** (2017.01 - EP US); **D06P 1/08** (2013.01 - EP US); **D06P 1/13** (2013.01 - EP US); **D06P 1/18** (2013.01 - EP US); **D06P 1/20** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 03093565 A2 20031113**; **WO 03093565 A3 20040304**; AT E302871 T1 20050915; AU 2003222312 A1 20031117; AU 2003222312 A8 20031117; BR 0309642 A 20050301; BR 0309642 B1 20131105; CN 1333129 C 20070822; CN 1650064 A 20050803; DE 10219993 A1 20031120; DE 50301054 D1 20050929; EP 1504149 A2 20050209; EP 1504149 B1 20050824; ES 2246470 T3 20060216; HR P20041141 A2 20050630; HR PK20041141 B3 20061231; JP 2005529245 A 20050929; KR 100973535 B1 20100803; KR 20040106453 A 20041217; MX PA04010130 A 20050331; TW 200407483 A 20040516; TW I279468 B 20070421; US 2005235429 A1 20051027; ZA 200409769 B 20060628

DOCDB simple family (application)  
**EP 0304497 W 20030430**; AT 03717323 T 20030430; AU 2003222312 A 20030430; BR 0309642 A 20030430; CN 03810035 A 20030430; DE 10219993 A 20020503; DE 50301054 T 20030430; EP 03717323 A 20030430; ES 03717323 T 20030430; HR P20041141 A 20041130; JP 2004501695 A 20030430; KR 20047017647 A 20030430; MX PA04010130 A 20030430; TW 92110165 A 20030430; US 51263604 A 20041027; ZA 200409769 A 20041202