

Title (en)  
STAIN-RESISTANT AGENTS FOR TEXTILES

Publication  
**EP 0328822 B1 19930421 (EN)**

Application  
**EP 88311826 A 19881214**

Priority  
• US 13603387 A 19871221  
• US 28040488 A 19881206  
• US 28040588 A 19881206  
• US 28040688 A 19881206

Abstract (en)  
[origin: EP0328822A2] Stain-resistant compositions comprising sulfonated phenol-formaldehyde condensation products and polymers of maleic anhydride and unsaturated aromatic monomers e.g. styrene polyamide textile substrates treated with the same, and processes for their preparation. The stain-resistant compositions and substrates possess improved stain resistance but do not suffer from yellowing to the extent that previously known materials do.

IPC 1-7  
**D06M 15/233**; **D06M 15/263**; **D06M 15/41**

IPC 8 full level  
**A47G 27/02** (2006.01); **D06M 15/233** (2006.01); **D06M 15/263** (2006.01); **D06M 15/41** (2006.01); **D06M 101/00** (2006.01); **D06M 101/16** (2006.01); **D06M 101/30** (2006.01); **D06M 101/34** (2006.01); **D06M 101/36** (2006.01)

CPC (source: EP KR)  
**D06M 13/10** (2013.01 - KR); **D06M 15/233** (2013.01 - EP); **D06M 15/263** (2013.01 - EP KR); **D06M 15/41** (2013.01 - KR); **D06M 15/412** (2013.01 - EP); **D06M 2101/34** (2013.01 - EP)

Cited by  
US5223340A; US5348786A; US5520962A; US5118551A; US5015259A; CN1067735C; US5232760A; US4940757A; US5310828A; EP0345946A3; EP0428639A4; GR900100293A; US5135774A; US5359010A; US5364541A; US7335234B2; WO9859106A1; WO9012917A1; WO9728304A1; WO9114818A1; WO9418376A1; WO9428231A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0328822 A2 19890823**; **EP 0328822 A3 19891018**; **EP 0328822 B1 19930421**; CA 1340028 C 19980908; DE 3880474 D1 19930527; DE 3880474 T2 19931021; DK 709988 A 19890622; DK 709988 D0 19881220; FI 885888 A0 19881220; FI 885888 A 19890622; JP H0284570 A 19900326; JP H0529703 B2 19930506; KR 890010351 A 19890808; KR 920006477 B1 19920807; NO 885656 D0 19881220; NO 885656 L 19890622

DOCDB simple family (application)  
**EP 88311826 A 19881214**; CA 586055 A 19881215; DE 3880474 T 19881214; DK 709988 A 19881220; FI 885888 A 19881220; JP 32321388 A 19881221; KR 880017196 A 19881220; NO 885656 A 19881220