

Title (en)

Stable detergents containing optical brighteners.

Title (de)

Stabile, optische Aufheller enthaltende Waschmittel.

Title (fr)

Détergents stables contenant des azurants optiques.

Publication

EP 0321715 B1 19940615 (DE)

Application

EP 88119487 A 19881123

Priority

CH 502787 A 19871223

Abstract (en)

[origin: EP0321715A2] Detergents which, besides inorganic and/or organic peracids, contain specific bis-benzofuranyl compounds as optical brighteners are stable for several months and show the usual cleaning properties even at washing temperatures of 20-60 DEG C.

IPC 1-7

C11D 3/395; **C11D 3/42**

IPC 8 full level

C09B 57/00 (2006.01); **C11D 3/39** (2006.01); **C11D 3/42** (2006.01); **D06L 3/12** (2006.01)

CPC (source: EP)

C11D 3/3942 (2013.01); **C11D 3/3945** (2013.01); **C11D 3/42** (2013.01)

Citation (examination)

- EP 0317978 A2 19890531 - CIBA GEIGY AG [CH]
- Ullmann's Encyclopedia of Industrial Chemistry, 5th ed., vol. A8, pppp. 360-362

Cited by

EP0548019A3; EP0394998A3; US5279772A; EP0368100A3

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0321715 A2 19890628; **EP 0321715 A3 19890809**; **EP 0321715 B1 19940615**; AU 2593288 A 19890706; AU 624094 B2 19920604; BR 8806216 A 19890815; DE 3850232 D1 19940721; ES 2054775 T3 19940816; JP H02138398 A 19900528; MX 169371 B 19930630; ZA 888794 B 19890830

DOCDB simple family (application)

EP 88119487 A 19881123; AU 2593288 A 19881125; BR 8806216 A 19881125; DE 3850232 T 19881123; ES 88119487 T 19881123; JP 29482088 A 19881124; MX 1391388 A 19881124; ZA 888794 A 19881124