

Title (en)

OPTICAL BRIGHTENERS FROM BISTYRYL BENZENE, PROCESS FOR THEIR PREPARATION AND THEIR USE

Publication

EP 0030917 B1 19850123 (DE)

Application

EP 80810378 A 19801208

Priority

- CH 305880 A 19800421
- CH 1104079 A 19791213

Abstract (en)

[origin: ES8205746A1] A fluorescent brightener is proposed which consists of 51-99% of an unsymmetrically substituted compound of the formula < IMAGE > (1) in which R and R1 are identical or different and, if R and R1 are identical, R1 must occupy a position in the phenyl ring to which it is bonded which differs from the position occupied by R in its phenyl ring, and in which R and R1 independently of one another are CN or a carboxylic acid ester group, and 49-1% of a symmetrically substituted compound of the formula < IMAGE > (2) in which R as defined above and the two R's are bonded to identical positions in their phenyl rings, as are also agents which contain these fluorescent brighteners and the use of these fluorescent brighteners for the fluorescent brightening of, in particular, textile materials, preferably made of polyester. The said fluorescent brighteners are prepared by reacting terephthalaldehyde preferably with a correspondingly substituted benzylphosphonate and further reacting the resulting mixture of a correspondingly substituted 4-stilbene aldehyde and a symmetrical p-bis-styrylbenzene with a benzylphosphonate which differs from the benzylphosphonate first used.

IPC 1-7

D06L 3/12; **C07C 69/76**; **C07C 121/70**

IPC 8 full level

C09B 57/00 (2006.01); **C11D 3/42** (2006.01); **D06L 3/12** (2006.01); **D06L 4/65** (2017.01)

CPC (source: EP US)

D06L 4/65 (2016.12 - EP US)

Cited by

EP0680947A3; CN1064037C; EP0252009A1; CH688877GA3; EP0064303A1; US4464284A; DE3802204A1; US4778622A; FR2732015A1; US7497971B2; WO9508017A1; WO2004053221A1; EP0032254B1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0030917 A2 19810624; **EP 0030917 A3 19820217**; **EP 0030917 B1 19850123**; **EP 0030917 B2 19910320**; BR 8008161 A 19810630; CA 1175608 A 19841009; DE 3070041 D1 19850307; ES 497647 A0 19820701; ES 501488 A0 19820816; ES 8205746 A1 19820701; ES 8206433 A1 19820816; JP H01152161 A 19890614; US 4778623 A 19881018; US 4785128 A 19881115; US 5001253 A 19910319

DOCDB simple family (application)

EP 80810378 A 19801208; BR 8008161 A 19801212; CA 366537 A 19801211; DE 3070041 T 19801208; ES 497647 A 19801212; ES 501488 A 19810420; JP 26167888 A 19881019; US 47473183 A 19830318; US 52084390 A 19900510; US 75638285 A 19850718