

Title (en)

Mixtures of optical brighteners.

Title (de)

Mischungen von optischen Aufhellern.

Title (fr)

Mélanges d'agents de blanchiment optique.

Publication

**EP 0238446 B1 19951115 (DE)**

Application

**EP 87810151 A 19870316**

Priority

CH 114286 A 19860321

Abstract (en)

[origin: US4778622A] Mixtures of fluorescent whitening agents consisting of 51 to 99% by weight of a symmetrically or unsymmetrically substituted first 1,4-bis(cyanostyryl)benzene and 49 to 1% by weight of an unsymmetrically substituted second 1,4-bis(cyanostyryl)benzene that differs from the first, a process for the preparation of said mixtures by condensing terephthalaldehyde with a di(C1-C4) alkylphosphonomethylbenzonitrile to cyano-4-formylstilbene, which is further condensed, either direct or after isolation, with at least one other di(C1-C4)alkylphosphonomethylbenzonitrile, the use of these mixtures for whitening polyester fibres, and compositions containing said mixtures for whitening polyester fibres.

IPC 1-7

**D06L 3/12**

IPC 8 full level

**C09B 67/42** (2006.01); **C09B 67/22** (2006.01); **D06L 3/12** (2006.01); **D06L 4/65** (2017.01)

CPC (source: EP US)

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Cited by

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**EP 0238446 A1 19870923**; **EP 0238446 B1 19951115**; BR 8701260 A 19880105; CA 1340088 C 19981020; DE 3751594 D1 19951221; JP 2578108 B2 19970205; JP S62232464 A 19871012; MX 168413 B 19930524; US 4778622 A 19881018; US 4891153 A 19900102

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**EP 87810151 A 19870316**; BR 8701260 A 19870320; CA 532408 A 19870319; DE 3751594 T 19870316; JP 6445387 A 19870320; MX 563187 A 19870319; US 22864388 A 19880805; US 2502387 A 19870312