

Title (en)  
Process for dyeing paper.

Title (de)  
Verfahren zum Färben von Papier.

Title (fr)  
Procédé pour teindre le papier.

Publication  
**EP 0391170 A1 19901010 (DE)**

Application  
**EP 90105512 A 19900323**

Priority  
DE 3910923 A 19890405

Abstract (en)  
[origin: JPH02289198A] PURPOSE: To color paper in blue color, etc., having excellent light resistance, moisture resistance (blotting resistance) and fastness to acid, alkali and alum by using a specific dye. CONSTITUTION: Paper is colored with a dye expressed by formula I [X is H, OH, a 1-4C alkoxy or NHR3 ; R1 is H or a 1-4C alkyl; R2 and R3 are each H, an alkyl (carbonyl), an alkylsulfonyl, an aryl (carbonyl), an arylsulfonyl, an aralkyl (carbonyl) or aminocarbonyl] (e.g. the compound of formula II).

Abstract (de)  
Farbstoffe der Formel <IMAGE> mit den in der Beschreibung genannten Substituentenbedeutungen eignen sich hervorragend zum Färben von Papier. Sie liefern licht- und naßechte blaue Färbungen.

IPC 1-7  
**D21H 21/28**

IPC 8 full level  
**C09B 31/08** (2006.01); **D21H 21/28** (2006.01)

CPC (source: EP US)  
**D21H 21/28** (2013.01 - EP US); **Y10S 8/919** (2013.01 - US)

Citation (search report)  
• [X] FR 456232 A 19130820 - SOCIETE LEOPOLD CASSELLA & C G M B H [DE]  
• [Y] EP 0289458 A2 19881102 - CIBA GEIGY AG [CH]  
• [Y] DE 3616128 A1 19861120 - CANON KK [JP], et al

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EP0992544A1; EP0831131A1; US5883234A

Designated contracting state (EPC)  
CH DE FR GB LI

DOCDB simple family (publication)  
**EP 0391170 A1 19901010; EP 0391170 B1 19931110**; DD 299326 A5 19920409; DE 3910923 A1 19901011; DE 59003396 D1 19931216; JP H02289198 A 19901129; US 5034017 A 19910723

DOCDB simple family (application)  
**EP 90105512 A 19900323**; DD 33943290 A 19900404; DE 3910923 A 19890405; DE 59003396 T 19900323; JP 7908190 A 19900329; US 49737190 A 19900321