

Title (en)

Cleaning aid for dyeing apparatus.

Title (de)

Gerät zum Waschen von Färbeeinrichtungen.

Title (fr)

Auxiliaire de nettoyage pour un appareil de teinture.

Publication

EP 0353963 B1 19940202 (EN)

Application

EP 89307721 A 19890728

Priority

US 22664388 A 19880801

Abstract (en)

[origin: EP0353963A1] A moveable shield and associated liquid containment system which may be used with machines in which arrays of individual streams of liquid dye are used to pattern substrates. The shield associated with a given array selectively may be interposed between the substrate and the liquid dye streams of that array to prevent substrate contact by the liquid streams as, for example, during cleaning operations, or withdrawn to permit unimpeded substrate contact by the liquid dye stream. One or more arrays may be cleaned or charged with a different color dyestuff while the remaining arrays are used to pattern the substrate, eliminating the down time presently associated with the cleaning or dye changing of individual arrays.

IPC 1-7

D06B 23/30; **D06B 11/00**

IPC 8 full level

D06B 11/00 (2006.01); **D06B 23/30** (2006.01)

CPC (source: EP KR)

D06B 1/02 (2013.01 - KR); **D06B 11/0059** (2013.01 - EP); **D06B 23/30** (2013.01 - EP)

Cited by

CN113388993A; CN114427149A; EP0481686A1; US5205305A; EP0398126A1; US5081731A; AU616115B2; CN115726118A

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0353963 A1 19900207; **EP 0353963 B1 19940202**; AT E101213 T1 19940215; AU 3919689 A 19900208; AU 621917 B2 19920326; CA 1314141 C 19930309; DE 68912845 D1 19940317; DE 68912845 T2 19940901; DK 169977 B1 19950418; DK 364889 A 19900202; DK 364889 D0 19890724; KR 900003464 A 19900326; KR 960013467 B1 19961005; MX 172432 B 19931216; NO 169905 B 19920511; NO 169905 C 19920819; NO 893087 D0 19890731; NO 893087 L 19900202; NZ 230150 A 19920428; PT 91331 A 19900308; PT 91331 B 19950706

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EP 89307721 A 19890728; AT 89307721 T 19890728; AU 3919689 A 19890801; CA 607096 A 19890731; DE 68912845 T 19890728; DK 364889 A 19890724; KR 890010951 A 19890801; MX 1702389 A 19890801; NO 893087 A 19890731; NZ 23015089 A 19890801; PT 9133189 A 19890731