

Title (en)

Method and apparatus for dyeing cellulosic textile substrates with an inert leuco state dye and dyed product

Title (de)

Verfahren und Vorrichtung zum Färben von Textilsubstraten aus Zellulose mit einem inerten Leukofarbstoff sowie ein gefärbtes Produkt

Title (fr)

Procédé et dispositif pour la teinture des substrats textiles cellulosiques avec un leucodérivé inerte de colorant et produit teint

Publication

EP 1591578 A3 20070124 (EN)

Application

EP 05008983 A 20050425

Priority

US 83345004 A 20040428

Abstract (en)

[origin: EP1591578A2] Dyeing a cellulosic textile substrate (58) with reduced indigo dye (14) in a leuco state after foaming with an inert gas to maintain the dye (14) isolated from oxidizing substances. Following application of the foam to the substrate (58), it is exposed to the adjacent atmosphere, with the oxygen in the atmosphere oxidizing the reduced indigo dye (14) to regenerate it and cause it to affix to the textile substrate (58). A product can be produced using the method and apparatus of the present invention that has different dye characteristics on opposite surfaces of the substrate by applying the indigo dye foam to one surface and another dye, either an indigo dye or some other dye to the opposite surface.

IPC 8 full level

D06B 19/00 (2006.01); **D06L 3/00** (2006.01)

CPC (source: EP US)

D06B 19/0094 (2013.01 - EP US); **D06P 1/0016** (2013.01 - EP US); **D06P 1/228** (2013.01 - EP US); **D06P 1/965** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1591578 A2 20051102; **EP 1591578 A3 20070124**; US 2005241078 A1 20051103; US 2007266505 A1 20071122

DOCDB simple family (application)

EP 05008983 A 20050425; US 80589307 A 20070525; US 83345004 A 20040428