

Title (en)
Process for dyeing by the exhaust method, with sulphur dyes

Title (de)
Ausziehfarbverfahren für Schwefelfarbstoffe

Title (fr)
Procédé de teinture par épuisement pour des colorants au soufre

Publication
EP 0699797 B1 20030409 (DE)

Application
EP 95810536 A 19950830

Priority
US 29976394 A 19940901

Abstract (en)
[origin: US5632782A] Improved processes for the exhaust dyeing of cellulosic fibers with sulphur dyes in the presence of non-sulphide reducing agents wherein the dyeing of the textile substrate is performed in a closed vessel in an atmosphere of reduced oxygen level and then oxidizing.

IPC 1-7
D06P 1/30; **D06P 3/60**

IPC 8 full level
C09B 67/42 (2006.01); **D06P 1/00** (2006.01); **D06P 1/30** (2006.01); **D06P 1/651** (2006.01); **D06P 1/673** (2006.01); **D06P 3/60** (2006.01); **D06P 5/20** (2006.01)

CPC (source: EP US)
D06P 1/0032 (2013.01 - EP US); **D06P 1/30** (2013.01 - EP US); **D06P 1/65112** (2013.01 - EP US); **D06P 1/65118** (2013.01 - EP US); **D06P 1/65168** (2013.01 - EP US); **D06P 1/65175** (2013.01 - EP US); **D06P 1/65181** (2013.01 - EP US); **D06P 1/6735** (2013.01 - EP US); **D06P 3/6025** (2013.01 - EP US); **D06P 5/2033** (2013.01 - EP US); **Y10S 8/918** (2013.01 - US)

Cited by
US6093221A; CN107541963A; WO2014032134A1; WO9824967A1

Designated contracting state (EPC)
BE CH DE ES FR GB IT LI PT

DOCDB simple family (publication)
US 5632782 A 19970527; BR 9503885 A 19961015; DE 59510628 D1 20030515; EP 0699797 A2 19960306; EP 0699797 A3 19980415; EP 0699797 B1 20030409; ES 2196047 T3 20031216; JP H08170276 A 19960702; PT 699797 E 20030829; TR 199501087 A2 19960621; US 5873912 A 19990223

DOCDB simple family (application)
US 51862695 A 19950823; BR 9503885 A 19950831; DE 59510628 T 19950830; EP 95810536 A 19950830; ES 95810536 T 19950830; JP 22217795 A 19950830; PT 95810536 T 19950830; TR 9501087 A 19950901; US 78847097 A 19970128