

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