

Title (en)  
MEDIATOR SYSTEMS BASED ON MIXED METAL COMPLEXES, USED FOR REDUCING DYES

Title (de)  
MEDIATORSYSTEME AUF BASIS GEMISCHTER METALLKOMPLEXE ZUR REDUKTION VON FARBSTOFFEN

Title (fr)  
SYSTEMES MEDIEURS SE BASANT SUR DES COMPLEXES METALLIQUES MELANGES, PERMETTANT LA REDUCTION DE COLORANTS

Publication  
**EP 1266069 A1 20021218 (DE)**

Application  
**EP 01909807 A 20010301**

Priority  
• DE 10010060 A 20000302  
• EP 0102307 W 20010301

Abstract (en)  
[origin: US2003088926A1] Mediator systems obtainable by mixing a salt of an electrochemically active complexing metal (M1) capable of forming a plurality of valence states with a hydroxyl-containing complexing agent, which may likewise be present as salt, and with a salt of an electrochemically inactive complexing metal (M2) in an alkaline aqueous medium, wherefor the molar ratio of metal ion M2 to metal ion M1 is from 0.8:1 to 2:1 are useful for reducing dyes and dyeing cellulosic textile material.

IPC 1-7  
**D06P 1/22**; **D06P 1/30**

IPC 8 full level  
**D06P 1/653** (2006.01); **C25D 9/02** (2006.01); **D06P 1/22** (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 KR US)  
**D06P 1/221** (2013.01 - EP KR US); **D06P 1/228** (2013.01 - EP KR US); **D06P 1/30** (2013.01 - EP KR US); **D06P 1/65118** (2013.01 - EP KR US); **D06P 1/67341** (2013.01 - EP KR US); **D06P 1/67358** (2013.01 - EP KR US); **D06P 5/2016** (2013.01 - EP KR US); **Y10S 8/918** (2013.01 - US)

Citation (search report)  
See references of WO 0164999A1

Cited by  
DE102008058890A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**US 2003088926 A1 20030515**; **US 6790241 B2 20040914**; AT E441756 T1 20090915; BR 0108852 A 20030506; CN 1296553 C 20070124; CN 1406300 A 20030326; DE 10010060 A1 20010906; DE 50115088 D1 20091015; EP 1266069 A1 20021218; EP 1266069 B1 20090902; ES 2330505 T3 20091211; HK 1053156 A1 20031010; HK 1053156 B 20070601; JP 2003525362 A 20030826; KR 100683309 B1 20070215; KR 20020087064 A 20021121; MX PA02008540 A 20021213; PT 1266069 E 20091016; WO 0164999 A1 20010907

DOCDB simple family (application)  
**US 22007102 A 20021015**; AT 01909807 T 20010301; BR 0108852 A 20010301; CN 01805857 A 20010301; DE 10010060 A 20000302; DE 50115088 T 20010301; EP 0102307 W 20010301; EP 01909807 A 20010301; ES 01909807 T 20010301; HK 03105339 A 20030724; JP 2001563680 A 20010301; KR 20027011443 A 20020831; MX PA02008540 A 20010301; PT 01909807 T 20010301