

Title (en)
Thermal transfer printing.

Title (de)
Thermoübertragungsdruck.

Title (fr)
Impression par transfert thermique.

Publication
EP 0247737 A1 19871202 (EN)

Application
EP 87303831 A 19870429

Priority
GB 8612778 A 19860527

Abstract (en)
A thermal transfer printing sheet, suitable for use in a thermal transfer printing process, especially for the conversion of a digital image into a visible print, comprising a substrate having a coating comprising a dye of the formula: <CHEM> wherein Ring A is unsubstituted or carries, in the 2- or 4-position with respect to the azo link, at least one group selected from -CX₃, X<1>, CN, NO₂, -OCO.Y, -CO.Y, -CO.H, -OSO₂.Y and -SO₂.Y, provided that A is substituted when Z is CH₃ and R is C2-4-alkyl; X and X<1> are each independently halogen; Y is selected from R<1>, -OR<1>, SR<1> and -NR<1>R<2>; R<1> is selected from C1-12-alkyl, C1-12-alkyl interrupted by one or two groups selected from -O-, -CO-, O.CO- and -CO.O-, C3-7-cycloalkyl, mono- or bi-cyclic aryl and C1-3-alkylene attached to an adjacent carbon atom on Ring A; R<2> is selected from H, C1-12-alkyl, C3-7-cycloalkyl and mono- or bi-cyclic aryl; Z is C1-12-alkyl or phenyl; and R is selected from C2-12-alkyl unbranched in the alpha-position, C2-12-alkyl unbranched in alpha-position and interrupted by one or two groups selected from -O-, -CO-, O.CO- and -CO.O-, phenyl, C1-4-alkylphenyl, biphenyl and biphenyl interrupted by a group selected from -O-, -CO-, O.CO- and -CO.O-, each of which is free from hydrogen atoms capable of intermolecular hydrogen bonding.

IPC 1-7
B41M 5/26

IPC 8 full level
D06P 5/00 (2006.01); **B41M 5/26** (2006.01); **B41M 5/385** (2006.01); **B41M 5/388** (2006.01); **B41M 5/39** (2006.01)

CPC (source: EP)
B41M 5/388 (2013.01)

Citation (search report)
• [X] GB 2159971 A 19851211 - MITSUBISHI CHEM IND
• [X] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 152 (M-391)[1875], 27th June 1985; & JP-A-60 27 594 (MITSUBISHI KASEI KOGYO K.K.) 12-02-1985

Cited by
EP0389101A1; EP0483792A1; EP0423796A1; EP1375599A1; CN103525126A; EP0319234A3; US5093308A; US5262377A; US5403811A; EP0462447A1; US5204312A; EP0302627A3; US4968657A; CN103525122A; EP0701907A1; EP0733487A2; US6663703B1; US6673139B1; US6755902B2; EP0792757A1; US6576748B1; US6590082B1; US6576747B1; US6646111B1; US6696552B2; WO02094581A1; US7381253B2; US7754862B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)
EP 0247737 A1 19871202; EP 0247737 B1 19900808; AT E55330 T1 19900815; DE 3764183 D1 19900913; ES 2016356 B3 19901101; GB 8612778 D0 19860702; GR 3000700 T3 19910927; JP 2572767 B2 19970116; JP S62290583 A 19871217

DOCDB simple family (application)
EP 87303831 A 19870429; AT 87303831 T 19870429; DE 3764183 T 19870429; ES 87303831 T 19870429; GB 8612778 A 19860527; GR 900400025 T 19900809; JP 12854087 A 19870527