

Title (en)

Thermal transfer dye ribbon for luminescent writing

Title (de)

Thermotransferfarbband für lumineszierende Schriftzeichen

Title (fr)

Ruban de colorant pour transfert thermique pour l'écriture luminescente

Publication

EP 0823332 B1 19990630 (DE)

Application

EP 97112372 A 19970718

Priority

DE 19632111 A 19960808

Abstract (en)

[origin: EP0823332A1] A thermal transfer ribbon, with (a) a base, (b) a first thermal transfer layer containing a luminescent pigment (I) on one side of the base, and (c) a second thermal transfer layer containing a non-luminescent pigment (II) over layer (b). The reflectance spectrum of (II) shows a peak or a rising slope in the wavelength range of the light emitted by (I), and other layers may be interposed between (a) and (b) and/or (b) and (c). Preferably (I) is a daylight fluorescent pigment, preferably emitting in the orange to red range, and (II) is a coloured pigment, preferably red. The binders for layers (b) and (c) comprise a mixture of hydrocarbon wax and/or ester wax with ethylene/vinyl acetate (EVA) copolymer and/or hydrocarbon resin. Layers (b) and (c) have thicknesses of 2-5 µm and 1-3.5 µm respectively.

IPC 1-7

B41M 5/38

IPC 8 full level

B41J 31/00 (2006.01); **B41J 31/08** (2006.01); **B41M 3/00** (2006.01); **B41M 5/382** (2006.01); **B41M 5/385** (2006.01); **B41M 5/40** (2006.01); **B07C 3/18** (2006.01); **G06K 1/12** (2006.01)

CPC (source: EP US)

B41M 5/38228 (2013.01 - EP US); **Y10S 428/913** (2013.01 - EP US); **Y10S 428/914** (2013.01 - EP US); **Y10T 428/31935** (2015.04 - EP US)

Cited by

US6358597B1; CN110831777A; EP0908326A1; DE19744956C2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0823332 A1 19980211; **EP 0823332 B1 19990630**; CA 2212480 A1 19980208; DE 19632111 C1 19980212; DE 59700240 D1 19990805; US 5985422 A 19991116

DOCDB simple family (application)

EP 97112372 A 19970718; CA 2212480 A 19970807; DE 19632111 A 19960808; DE 59700240 T 19970718; US 90663197 A 19970807