

Title (en)  
THERMAL TRANSFER FOIL FOR FORMING IMAGES DIRECTLY ONTO A PRINTING CYLINDER

Publication  
**EP 0432506 A3 19911016 (DE)**

Application  
**EP 90121868 A 19901115**

Priority  
DE 3941303 A 19891214

Abstract (en)  
[origin: EP0432506A2] A thermal transfer foil for forming images directly onto a printing cylinder, which comprises a meltable, oleophilic substance on a substrate, from which parts of the substance are melted by the effect of heat for marking colour-bearing image parts of the printing cylinder and transferred to the latter, is provided according to the invention with an intermediate layer of material which can foam or form bubbles under the effect of heat and the response temperature of which for the foaming operation is greater than the melting temperature of the substance. By means of such a thermal transfer foil it is possible to compensate for manufacturing inaccuracies of the printing cylinder, the thermal transfer foil and the picture dot transfer unit, generating the heat energy, which are unavoidable in practice, bringing them down altogether to about 1 mm, as a result of which both the quality and the cost-effectiveness of forming images directly onto printing cylinders by the thermal transfer method are improved considerably.  
<IMAGE>

IPC 1-7  
**B41C 1/10**; **B41M 5/38**

IPC 8 full level  
**B41C 1/055** (2006.01); **B41C 1/10** (2006.01); **B41M 5/382** (2006.01); **B41M 5/40** (2006.01); **B41M 5/41** (2006.01)

CPC (source: EP US)  
**B41C 1/1091** (2013.01 - EP US)

Citation (search report)  
• [Y] EP 0321388 A1 19890621 - SIEMENS AG [DE]  
• [Y] DE 3416067 A1 19841108 - CANON KK [JP]  
• [A] WO 8402494 A1 19840705 - SCHNEIDER JOSEF  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 10, no. 196 (M-497)(2252) 10 Juli 1986, & JP-A-61 41547 (TOPPAN PRINTING CO LTD) 27 Februar 1986,  
• [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 282 (M-726)(3129) 03 August 1988, & JP-A-63 60751 (MATSUSHITA ELECTRIC IND CO LTD) 16 März 1988,

Cited by  
GB2284788A; GB2284788B; US2011201837A1; US8609878B2; US6677010B1

Designated contracting state (EPC)  
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**DE 3941303 C1 19901213**; CA 2027332 A1 19910615; CA 2027332 C 19961015; DE 59007252 D1 19941027; EP 0432506 A2 19910619; EP 0432506 A3 19911016; EP 0432506 B1 19940921; JP 2999243 B2 20000117; JP H03189151 A 19910819; US 5382964 A 19950117

DOCDB simple family (application)  
**DE 3941303 A 19891214**; CA 2027332 A 19901011; DE 59007252 T 19901115; EP 90121868 A 19901115; JP 32612990 A 19901129; US 94927192 A 19920911