

Title (en)

INK SHEET REPEATEDLY USABLE IN THERMAL RECORDING

Publication

EP 0260347 B1 19920617 (EN)

Application

EP 86117680 A 19861218

Priority

- JP 21732786 A 19860917
- JP 28635485 A 19851218
- JP 28635585 A 19851218

Abstract (en)

[origin: EP0260347A2] A reusable thermal ink sheet for thermal printing having an improved thermal ink composition layer formed on a substrate is proposed. The thermal ink composition is a mixture of ink material and filler. The ink material includes coloring agent and low temperature melting compound which is solid at room temperature, and is melted during thermal printing in response to a printing image to be transferred. The low temperature melting compound contains urethane compound as a base material and additive material as a viscosity modulator thereof which lowers the viscosity of the ink material at printing temperature. The additive material contains one or more fatty acids, fatty acid amides and/or ester compounds. The improved ink sheet can give a high quality printing image on plain paper with a rough surface, free from ghost images and background noise, after up to e.g. 10 printings. A plasticizer may be added to the ink material to improve the thermal printing ability at low temperatures

IPC 1-7

B41M 5/26

IPC 8 full level

B41M 5/26 (2006.01); **B41M 5/30** (2006.01); **B41M 5/392** (2006.01)

CPC (source: EP KR)

B41M 5/26 (2013.01 - KR); **B41M 5/30** (2013.01 - KR); **B41M 5/392** (2013.01 - EP)

Cited by

EP0319331A3; EP0535721A1; EP0390044A3; US5294589A; DE3738934A1; US4995741A; EP0348695B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0260347 A2 19880323; **EP 0260347 A3 19890927**; **EP 0260347 B1 19920617**; DE 3685754 D1 19920723; DE 3685754 T2 19930204; KR 880003753 A 19880530; KR 920001485 B1 19920215

DOCDB simple family (application)

EP 86117680 A 19861218; DE 3685754 T 19861218; KR 860010641 A 19861212