

Title (en)

Method and apparatus for high speed thermal transfer type printing.

Title (de)

Verfahren und Gerät für Wärmetransferdruck hoher Geschwindigkeit.

Title (fr)

Procédé et appareil pour l'impression de transfert thermique à grande vitesse.

Publication

**EP 0589462 A1 19940330 (EN)**

Application

**EP 93115379 A 19930923**

Priority

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- JP 25473192 A 19920924
- JP 25473292 A 19920924

Abstract (en)

A thermal transfer type printing capable of realizing a high speed printing, an accurate multi-color printing, and a reduction of an interval between the successive printing operations. In this thermal printing, a first film (110) for carrying a thermally transferrable applied material and a second film (200) for receiving the applied material thermally transferred from the first film are provided. Then, a desired printing pattern is formed on the second film (200) by applying heat from the second film side to a desired part of the applied material on the first film (110) in a shape of the desired printing pattern, and the desired printing pattern formed on the second film is then thermally transferred to a printing target (A). The multi-color printing can be achieved by providing a plurality first films (110,120) carrying thermally transferrable applied material in different colors. The reduction of an interval between the successive printing operations can be achieved by providing a mechanism (221) for temporarily pooling a plurality of desired printing patterns sequentially formed on the second film (200), by bending a route of the second film passing out from a heating position of the printing head (420). <IMAGE>

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**B41J 2/0057** (2013.01 - EP); **B41J 2/325** (2013.01 - EP KR); **B41J 2/0057** (2013.01 - KR)

Citation (search report)

- [Y] US 4504837 A 19850312 - TOYODA KENJI [JP], et al
- [YD] EP 0376170 A2 19900704 - TOHDO MICHIHARU
- [A] US 5005028 A 19910402 - TAMURA YASUYUKI [JP], et al
- [A] EP 0262595 A2 19880406 - HITACHI LTD [JP]
- [A] US 4893134 A 19900109 - YAMAMOTO JUNICHI [JP], et al

Cited by

US6639618B2; EP0680835A3; US2022105740A1; WO2016075446A1; WO03091030A1

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