

Title (en)

Thermal air drying device and method for drying a printed item

Title (de)

Thermoluft-Trocknungseinrichtung und Verfahren zur Bewerkstelligung der Trocknung eines Bedruckstoffes

Title (fr)

Dispositif de séchage à air thermique et procédé destiné à sécher une matière d'impression

Publication

**EP 2047991 A3 20111116 (DE)**

Application

**EP 08165338 A 20080929**

Priority

- DE 102007048905 A 20071011
- DE 102008042122 A 20080916

Abstract (en)

[origin: EP2047991A2] Drying device comprises a preheating heat exchanger (6) for preheating the dry air stream using a heat stream in the region of a guiding or curved path through a cooling unit (5) and a heating unit (3) arranged in an air section in the air stream path of the heat exchanger. An independent claim is also included for a drying method using the above device. Preferred Features: The cooling unit is formed as a guiding or curved cooler. Heat is removed from the guiding or curved path using a heat carrier. The heat carrier is guided through the cooling unit and forms a working medium.

IPC 8 full level

**B41F 23/04** (2006.01); **B41F 13/42** (2006.01)

CPC (source: EP)

**B41F 13/42** (2013.01); **B41F 23/04** (2013.01); **B41F 23/0483** (2013.01)

Citation (search report)

- [XDY] DE 20206407 U1 20030904 - FISCHER & KRECKE GMBH & CO [DE]
- [Y] DE 102005022064 A1 20061116 - ROLAND MAN DRUCKMASCH [DE]
- [A] EP 0035741 A1 19810916 - KLEINWEFERS RAMISCH GMBH [DE]
- [A] DE 202006019945 U1 20070719 - ROLAND MAN DRUCKMASCH [DE]

Cited by

EP2404757A1; DE102010026604A1; CN115287933A; CN104990394A; CN105620025A; CN102310625A; CN102310626A; CN113211968A; CN114347634A; CN117301712A; DE102009053474A1; DE102011075109A1; WO2011141335A1; WO2012146263A1; EP2404758A1; DE102011104924A1; EP2404758B1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2047991 A2 20090415; EP 2047991 A3 20111116**

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