

Title (en)  
SCREEN PRINTER

Title (de)  
SIEBDRUCKER

Title (fr)  
MACHINE DE SÉRIGRAPHIE

Publication  
**EP 2946926 A4 20160120 (EN)**

Application  
**EP 13872072 A 20130118**

Priority  
JP 2013050977 W 20130118

Abstract (en)  
[origin: EP2946926A1] To provide an improved temperature control device in an inner space of a screen printer. A temperature control device 20 is disposed in the inner space of a printer covered with a cover 24. A heating/cooling unit 100 thereof is disposed by being fixed to a printer main body 10 behind a mask holding device 16 within an upper section of the inner space. Four heating/cooling units 100 which heat and cool air by using a Peltier device assembly are disposed side by side in a width direction of the printer. A heat exchanger and a fan on a temperature control side are surrounded by a common housing 132. The air whose temperature is controlled inside the housing 132 is supplied to a blower 220 disposed adjacent to a mask 46 by using a hose 224, and is caused to blow to a squeegee moving region so as to control the temperature. Heat is radiated and absorbed by the heat exchanger and the fan on a side opposite to the temperature control side of the Peltier device assembly. Furthermore, a fan 190 promotes exhausting of air, thereby efficiently controlling the temperature.

IPC 8 full level  
**B41F 15/12** (2006.01); **B41F 15/00** (2006.01); **B41F 15/08** (2006.01); **B41F 15/14** (2006.01); **B41F 15/26** (2006.01); **B41F 15/30** (2006.01); **B41F 15/42** (2006.01); **B41F 15/44** (2006.01); **H05K 3/12** (2006.01); **H05K 3/34** (2006.01)

CPC (source: EP)  
**B41F 15/0881** (2013.01); **B41F 15/12** (2013.01); **B41F 15/14** (2013.01); **B41F 15/26** (2013.01); **B41P 2215/112** (2013.01)

Citation (search report)

- [XYI] US 2011239878 A1 20111006 - MIYAHARA SEIICHI [JP], et al
- [Y] WO 0048837 A1 20000824 - DEK PRINTING MACHINES LTD [GB], et al
- [Y] JP 2006243686 A 20060914 - RICOH KK
- [A] JP 2001047601 A 20010220 - TANI DENKI KOGYO KK
- [A] US 2008029779 A1 20080207 - HATA TOSHIO [JP], et al
- See references of WO 2014112107A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2946926 A1 20151125; EP 2946926 A4 20160120; EP 2946926 B1 20190522**; CN 104936783 A 20150923; CN 104936783 B 20170322; JP 6117826 B2 20170419; JP WO2014112107 A1 20170119; WO 2014112107 A1 20140724

DOCDB simple family (application)  
**EP 13872072 A 20130118**; CN 201380070548 A 20130118; JP 2013050977 W 20130118; JP 2014557290 A 20130118