

Title (en)  
Printing apparatus with tempering unit

Title (de)  
Druckwerk mit Temperiereinrichtung

Title (fr)  
Groupe d'impression avec unité d'équilibrage de température

Publication  
**EP 1415805 A1 20040506 (DE)**

Application  
**EP 03007225 A 20030331**

Priority  
• EP 03007225 A 20030331  
• EP 02024033 A 20021028

Abstract (en)  
The mechanism has a tempering device having a heating device and cooling device (76). A temperature sensor is positioned near an ink supply, a metering device, and an ink nozzle (64), which are partially located on a cooling plate (74) of the cooling device. The heating device has a heat sensor and a heating cartridge located in the ink nozzle. The cooling device is structured for cold air flow through the plate. An Independent claim is also included for a process for printing with a print mechanism that includes a tempering device.

Abstract (de)  
Die Erfindung betrifft ein Druckwerk (23) einer Maschine der tabakverarbeitenden Industrie, insbesondere einer Zigarettenstrangmaschine. Die Erfindung ist dadurch gekennzeichnet, daß das Druckwerk (23) mit einer Temperiereinrichtung versehen ist. Die Erfindung betrifft ferner die Verwendung einer Temperiereinrichtung in einem Druckwerk einer Maschine der tabakverarbeitenden Industrie, insbesondere Zigarettenstrangmaschine, sowie eine Maschine der tabakverarbeitenden Industrie, insbesondere Zigarettenstrangmaschine. <IMAGE>

IPC 1-7  
**B41F 31/00**; **B41F 31/26**; **A24C 5/38**

IPC 8 full level  
**B41F 5/04** (2006.01); **A24C 5/60** (2006.01); **B41F 31/00** (2006.01); **B41F 31/02** (2006.01)

CPC (source: EP US)  
**B41F 31/002** (2013.01 - EP US)

Citation (search report)  
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Citation (third parties)  
Third party :  
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**EP 03007225 A 20030331**; CN 200310102640 A 20031027; JP 2003312608 A 20030904; PL 36309103 A 20031024; US 67815103 A 20031006