

Title (en)
Device for controlling the temperature of a printing press

Title (de)
Temperiervorrichtung einer Druckmaschine

Title (fr)
Dispositif pour contrôler la température d'une machine à imprimer

Publication
EP 1008448 A1 20000614 (DE)

Application
EP 99120734 A 19991020

Priority
DE 19857107 A 19981210

Abstract (en)
A temperature control device comprises tempering fluid circuit (2) with pump (4) and consumer (6) and a tempering fluid source (10) and feedline (16) to the inlet (18) into the circuit, notably at a first point (18) between consumer and pump intake (20). A fluid return (22) runs from circuit outlet (24) to a second point (24) between pump intake (20) and consumer (6) upstream of the first point (18) and so back to source (10). A slave valve (28) in line (22) is fitted as also a temperature sensor (30) in the flow circuit (2). A pressure head is set up by a flow resistance (32) circuited (2) between first and second points (18,24) so with the valve partly or completely open, part of the fluid can pass through valve (28) back to the source (10). Electronic switch control (34) sets the valve (28) and its fluid flow to the current temperature measured by the sensor (30) in order to maintain the ideal temperature at the consumer.

Abstract (de)
Temperiervorrichtung einer Druckmaschine mit einem Temperierfluidkreislauf (2), welcher eine Fluidzufuhrleitung (16,18) auf der Saugseite (20) einer in ihr enthaltenen Pumpe (4) und eine Fluidrückföhrleitung (22) ebenfalls auf der Saugseite der Pumpe (4) hat. Die beiden Leitungen (16,22) sind an eine Temperierflüssigkeitsquelle (10) angeschlossen. Zwischen den Anschlußstellen (18,24) der beiden Leitungen (16,22) an den Temperierfluidkreislauf (2) befindet sich in diesem ein Strömungswiderstand (30). <IMAGE>

IPC 1-7
B41F 13/22; **B41F 31/00**; **B41F 7/37**

IPC 8 full level
B41F 7/37 (2006.01); **B41F 13/22** (2006.01); **B41F 31/00** (2006.01)

CPC (source: EP US)
B41F 7/37 (2013.01 - EP US); **B41F 13/22** (2013.01 - EP US); **B41F 31/002** (2013.01 - EP US)

Citation (search report)
• [Y] DE 2360611 A1 19750619 - GRAPHO METRONIC GMBH & CO, et al
• [Y] EP 0383295 A2 19900822 - JAGUSCH & CO [DE]
• [A] DE 2055584 A1 19720525
• [A] DE 2250877 A1 19730712 - TOOLS LTD NV
• [AD] DE 4429520 A1 19960222 - BALDWIN GEGENHEIMER GMBH [DE]

Cited by
WO2010029023A1; EP2639065A1; US8327762B2; WO2010105711A3

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EP 1008448 A1 20000614; **EP 1008448 B1 20030108**; CN 1257005 A 20000621; DE 19857107 A1 20000615; DE 59903964 D1 20030213; JP 2000168038 A 20000620; JP 3117689 B2 20001218; US 6289984 B1 20010918

DOCDB simple family (application)
EP 99120734 A 19991020; CN 99124352 A 19991209; DE 19857107 A 19981210; DE 59903964 T 19991020; JP 34624399 A 19991206; US 45405099 A 19991203