

Title (en)
AUTOMATIC HYDRAULIC BALANCING DEVICE

Title (de)
AUTOMATISCHE HYDRAULISCHE AUSGLEICHANLAGE

Title (fr)
DISPOSITIF D'EQUILIBRAGE HYDRAULIQUE AUTOMATIQUE

Publication
EP 1133662 A1 20010919 (FR)

Application
EP 99956115 A 19991122

Priority
• FR 9902873 W 19991122
• FR 9815007 A 19981125

Abstract (en)
[origin: US6394361B1] In a device including a first calibrated or adjustable orifice and a second orifice located downstream of the first orifice, the opening of the second orifice is adjusted by a valve whereof the position is controlled by apparatus displacing the valve depending on the pressure difference prevailing between upstream and downstream of the first orifice and by apparatus producing a displacement depending on the temperature of the premises wherein the device is located. The device is mounted in two separate bodies, mutually linked, a first body corresponding to the first orifice and a second body corresponding to the second orifice. The device enables to produce both automatic hydraulic balancing and thermostatic control.

IPC 1-7
F24D 19/10

IPC 8 full level
F16K 31/68 (2006.01); **F24D 3/10** (2006.01); **F24D 19/10** (2006.01); **F24F 11/02** (2006.01); **G05D 16/06** (2006.01)

CPC (source: EP US)
F24D 19/1018 (2013.01 - EP US)

Citation (search report)
See references of WO 0031475A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6394361 B1 20020528; AT E229160 T1 20021215; AU 1279100 A 20000613; BE 1012415 A3 20001003; CA 2352112 A1 20000602; CA 2352112 C 20071009; CN 1161565 C 20040811; CN 1328630 A 20011226; DE 19956819 A1 20000531; DE 69904360 D1 20030116; DE 69904360 T3 20091001; EP 1133662 A1 20010919; EP 1133662 B1 20030502; FR 2786257 A1 20000526; FR 2786257 B1 20010112; GB 2344163 A 20000531; GB 2344163 B 20030521; GB 9927611 D0 20000119; JP 2002530624 A 20020917; KR 100729349 B1 20070615; KR 20010080552 A 20010822; NL 1013665 C2 20000530; PL 192078 B1 20060831; PL 336735 A1 20000605; PL 348726 A1 20020603; WO 0031475 A1 20000602

DOCDB simple family (application)
US 83071101 A 20010625; AT 99956115 T 19991122; AU 1279100 A 19991122; BE 9900763 A 19991124; CA 2352112 A 19991122; CN 99813556 A 19991122; DE 19956819 A 19991125; DE 69904360 T 19991122; EP 99956115 A 19991122; FR 9815007 A 19981125; FR 9902873 W 19991122; GB 9927611 A 19991123; JP 2000584247 A 19991122; KR 20017006485 A 20010524; NL 1013665 A 19991124; PL 33673599 A 19991124; PL 34872699 A 19991122