Title (en)

Pump module for use in a manifold for a floor heating system

Title (de)

Pumpenmodul in einem Verteiler für Fussbodenheizungssysteme

Title (fr)

Module de pompe destiné à être utilisé dans un bloc de distribution pour des systèmes de chauffage par le sol

Publication

EP 2378211 A2 20111019 (EN)

Application

EP 11001761 A 20110303

Priority

NL 1037883 A 20100413

Abstract (en)

A pump module (2) for use in a manifold for a floor heating system comprises an internal space, a valve seat which is located in the internal space, and a number of connection openings (22, 23, 25) which provide access to the internal space from outside of the pump module (2). The pump module (2) can be used in combination with a valve element for opening/closing a passage through the valve seat. Furthermore, various components of the manifold, including a pump, a duct for supplying water to pipes of the floor heating system, and a duct for receiving water from said pipes can be connected to the pump module (2) at suitable positions on the pump module (2) through the connection openings (22, 23, 25). The pump module (2) is widely applicable, and offers advantages over specifically designed connections in a manifold, including the advantage of reduced costs.

IPC 8 full level

F24D 3/10 (2006.01)

CPC (source: EP GB)

F04D 15/0011 (2013.01 - GB); **F24D 3/10** (2013.01 - EP); **F24D 3/1066** (2013.01 - EP GB); **F24D 3/146** (2013.01 - GB); **F28F 9/02** (2013.01 - GB); **F28F 9/0273** (2013.01 - GB)

Cited by

CN110542145A

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 2378211 A2 20111019; **EP 2378211 A3 20160601**; BE 1020138 A3 20130507; DE 202011000636 U1 20111227; FR 2958729 A3 20111014; FR 2958729 B3 20120427; GB 201104544 D0 20110504; GB 2480125 A 20111109; GB 2480125 B 20120613; IT MI20110106 U1 20111014; NL 1037883 C2 20111017; PL 119917 U1 20111024

DOCDB simple family (application)

EP 11001761 A 20110303; BE 201100176 A 20110322; DE 202011000636 U 20110321; FR 1152996 A 20110406; GB 201104544 A 20110317; IT MI20110106 U 20110401; NL 1037883 A 20100413; PL 11991711 U 20110412