

Title (en)  
A HYDRAULIC ASSEMBLY

Title (de)  
HYDRAULIKBAUGRUPPE

Title (fr)  
GROUPE HYDRAULIQUE

Publication  
**EP 3680574 A1 20200715 (EN)**

Application  
**EP 20151289 A 20200110**

Priority  
IT 201900000472 A 20190111

Abstract (en)  
A hydraulic assembly for a combined system (1) for room heating and for the production of domestic hot water having a hydraulic return valve assembly (19) and a hydraulic delivery valve assembly (20) both of which are hydraulically connected to a heat exchanger (18), which is provided with four coplanar connections (66); wherein the hydraulic return valve assembly (19) comprises a one-piece support body (31) having two first pairs of fittings (55, 56) arranged so as to lie on different planes and designed to establish, in a selective manner, the hydraulic connection to a first pair of connections (66), and wherein the hydraulic delivery valve assembly (20) comprises a one-piece support body (57) having two second pairs of fittings (62, 63) arranged so as to lie on different planes and designed to establish, in a selective manner, the hydraulic connection to a second pair of connections (66).

IPC 8 full level  
**F24H 9/14** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)  
**F24D 19/1066** (2013.01 - EP US); **F24H 9/142** (2013.01 - EP); **F24H 9/144** (2013.01 - EP); **F24D 2220/0235** (2013.01 - EP); **F24D 2220/044** (2013.01 - EP); **F24D 2220/06** (2013.01 - EP)

Citation (applicant)  
• EP 1188991 A1 20020320 - CHAFFOTEaux ET MAURY [FR]  
• EP 1026456 A1 20000809 - IABER SPA [IT]  
• DE 20015722 U1 20020131 - VIessMANN WERKE KG [DE]  
• EP 3361182 A1 20180815 - GRUNDFOS HOLDING AS [DK]  
• CN 102042637 A 20110504 - ZHEJIANG HENGXIANG INDUSTRY DEV CO LTD  
• EP 3370011 A1 20180905 - O T M A S N C DI SPAGGIARI & C [IT]  
• EP 3252394 A1 20171206 - O T M A S N C DI SPAGGIARI & C [IT]

Citation (search report)  
• [A] EP 1188991 A1 20020320 - CHAFFOTEaux ET MAURY [FR]  
• [A] EP 1026456 A1 20000809 - IABER SPA [IT]  
• [A] DE 20015722 U1 20020131 - VIessMANN WERKE KG [DE]  
• [A] EP 3361182 A1 20180815 - GRUNDFOS HOLDING AS [DK]  
• [A] CN 102042637 A 20110504 - ZHEJIANG HENGXIANG INDUSTRY DEV CO LTD  
• [A] EP 3370011 A1 20180905 - O T M A S N C DI SPAGGIARI & C [IT]  
• [A] EP 3252394 A1 20171206 - O T M A S N C DI SPAGGIARI & C [IT]

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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)  
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**EP 3680574 A1 20200715; EP 3680574 B1 20210616**; DK 3680574 T3 20210913; IT 201900000472 A1 20200711

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