

Title (en)  
MULTI-STAGE HEAT-EXCHANGER ASSEMBLY

Title (de)  
MEHRSTUFEN-WARMETAUSCHERANORDNUNG

Title (fr)  
ENSEMBLE ECHANGEUR THERMIQUE A PLUSIEURS ETAGES

Publication  
**EP 1704378 B1 20141008 (DE)**

Application  
**EP 05700556 A 20050107**

Priority  
• DK 2005000005 W 20050107  
• DE 102004001379 A 20040109

Abstract (en)  
[origin: WO2005066571A1] The invention relates to a multi-stage heat-exchanger assembly (1) comprising a primary side (3) and a secondary side (4), which are interconnected to transfer heat and can be traversed in opposite directions. According to the invention, the primary side (3) has at least two supply points (11, 12) that are offset in the flow direction. The assembly also comprises a valve system, which co-operates with a temperature sensor and conducts a flow of a heat transfer fluid through the primary side (3). The aim of the invention is to achieve a reliable setting of the temperature at the outlet (6) of the secondary side (4). To achieve this, the valve assembly has a separate valve (16, 17) for each supply point (11, 12).

IPC 8 full level  
**F28F 27/02** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)  
**F24D 19/1051** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005066571 A1 20050721**; CN 100449252 C 20090107; CN 1910423 A 20070207; DE 102004001379 A1 20050804;  
DE 102004001379 B4 20051124; EP 1704378 A1 20060927; EP 1704378 B1 20141008; RU 2314475 C1 20080110; RU 2314475 C9 20080427

DOCDB simple family (application)  
**DK 2005000005 W 20050107**; CN 200580002167 A 20050107; DE 102004001379 A 20040109; EP 05700556 A 20050107;  
RU 2006129328 A 20050107