

Title (en)  
WATER HEATING SYSTEM

Title (de)  
WASSERHEIZSYSTEM

Title (fr)  
SYSTÈME DE CHAUFFAGE D'EAU

Publication  
**EP 3306221 A2 20180411 (EN)**

Application  
**EP 17194192 A 20170929**

Priority  
JP 2016197489 A 20161005

Abstract (en)  
The present invention aims to provide a water heating system capable of reducing the frequency of maintenance of a heat exchanger required because of scale. The present invention provides a heat exchanger (23) including a plurality of heat exchange units (31, 32) which are separated from each other in a predetermined direction and are connected to each other in series. The total cross-sectional area of a water flow channel of the first heat exchange unit (31) cut along a plane orthogonal to a direction in which water flows is smaller than a total cross-sectional area of a water flow channel of the second heat exchange unit (32) cut along a plane orthogonal to the direction in which water flows.

IPC 8 full level  
**F24H 4/04** (2006.01); **F24D 19/00** (2006.01)

CPC (source: EP)  
**F24H 4/04** (2013.01); **F24H 9/0015** (2013.01); **F24D 19/0092** (2013.01)

Citation (applicant)  
JP 2004144445 A 20040520 - MATSUSHITA ELECTRIC IND CO LTD

Cited by  
EP4040069A4; AU2020380978B2; US11674695B2

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 3306221 A2 20180411**; **EP 3306221 A3 20180711**; JP 2018059670 A 20180412

DOCDB simple family (application)  
**EP 17194192 A 20170929**; JP 2016197489 A 20161005