

Title (en)  
HEATING APPARATUS

Title (de)  
HEIZVORRICHTUNG

Title (fr)  
APPAREIL DE CHAUFFAGE

Publication  
**EP 2253882 A4 20140219 (EN)**

Application  
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Abstract (en)  
[origin: EP2253882A1] A first flow passage (R1) in which uncombusted gas (G1) that contains a combustible fuel is injected from a nozzle hole that is smaller than the flame quenching distance at a flow speed to thereby enable flame maintenance is combusted, and thereby enables flow of combustion gas (G2) resulting from such combustion, and a second flow passage (R2) formed about the first flow passage and enabling flow of uncombusted gas supplied through the nozzle hole are provided. According to the present invention, the combustion chamber in a heating apparatus that heats a liquid to be heated is reduced in size, the flame in the combustion chamber can be stabilized, and energy efficiency can be improved.

IPC 8 full level  
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Citation (search report)  
• [XY] EP 0239189 A1 19870930 - LOCHINVAR WATER HEATER CORP [US]  
• [E] WO 2009075975 A1 20090618 - CHEVRON USA INC [US], et al  
• [Y] US 2060139 A 19361110 - TE PAS EDMUND J  
• [Y] JP 2000028109 A 20000125 - OSAKA GAS CO LTD  
• See references of WO 2009110509A1

Designated contracting state (EPC)  
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 SE SI SK TR

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