

Title (en)  
HOT WATER INSTALLATION AND METHOD FOR HEATING WATER

Title (de)  
WARMWASSERANLAGE UND VERFAHREN ZUM ERWÄRMEN VON WASSER

Title (fr)  
INSTALLATION D'EAU CHAUDE ET PROCÉDÉ DE CHAUFFAGE D'EAU

Publication  
**EP 4151922 A1 20230322 (EN)**

Application  
**EP 21197397 A 20210917**

Priority  
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Abstract (en)  
The invention relates to a hot water installation and method, the installation comprising:- a feed for supplying a liquid flow to be heated;- a burner configured to combust a gas (mixture) for the purpose of heating the liquid flow;- a discharge for discharging the heated liquid flow;- a gas feed connected operatively to the burner;- a gas mixer configured to mix a supply of a hydrocarbon gas with a gas mixture of oxygen and hydrogen;- an electrolysis system connected operatively to the gas mixer and configured to produce the gas mixture of oxygen and hydrogen,further comprising:- a dehumidifier configured to dehumidify the gas mixture of oxygen and hydrogen produced with the electrolysis system; and- a heat exchanger connected operatively to the electrolysis system and the feed of the liquid flow to be heated, and configured to preheat the liquid flow to be heated.

IPC 8 full level  
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Citation (applicant)  
WO 2017196174 A1 20171116 - TIELUK B V [NL]

Citation (search report)

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- [YA] CN 112944663 A 20210611 - HUNAN INST SCIENCE & TECH
- [AD] WO 2017196174 A1 20171116 - TIELUK B V [NL]
- [A] WO 2004109193 A1 20041216 - KOHARA HIROSHI [JP], et al

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