

Title (en)  
METHOD AND COMBUSTION OVEN FOR CONVERSION OF HYDROGEN AND ATMOSPHERIC OXYGEN TO WATER OR HHO GAS TO WATER

Title (de)  
VERFAHREN UND VERBRENNUNGSOFEN ZUR UMSETZUNG VON WASSERSTOFF UND LUFTSAUERSTOFF ZU WASSER ODER VON HHO-GAS ZU WASSER

Title (fr)  
PROCÉDÉ ET FOUR À COMBUSTION DESTINÉ À TRANSFORMER DE L'HYDROGENE ET DE L'OXYGENE ATMOSPHERIQUE EN EAU OU DES GAZ DE TYPE HHO EN EAU

Publication  
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Application  
**EP 17787099 A 20170914**

Priority

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Abstract (en)  
[origin: WO2018050166A1] The invention relates to a method for converting hydrogen and atmospheric oxygen into water or for converting HHO gas into water in a combustion furnace (1). The combustion chamber (10) is surrounded by a cooling jacket (2) in which a heat transfer liquid is circulated. Hydrogen and atmospheric oxygen or HHO gas are injected into the combustion furnace (1) and ignited and converted into the resulting reaction water in the presence of metal-oxide-containing earths (4) at temperatures up to 2600°C. The combustion furnace (1) is cooled with a heat transfer liquid. The invention also relates to a combustion furnace (1) for converting hydrogen and oxygen into water or for converting HHO gas into water, said combustion furnace having: a combustion chamber (11) which has at least one gas supply line (3) with an outlet nozzle (31) through which the gas to be combusted is supplied; and a cooling jacket (2) which surrounds the combustion chamber (11) and contains a heat transfer liquid circulating therein. Metal-oxide-containing earths are provided as catalysts (4) in the combustion chamber (11).

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