

Title (en)  
METHOD AND INSTALLATION FOR THE COMBUSTION OF A GAS MIXTURE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR VERBRENNUNG EINES GASGEMISCHES

Title (fr)  
PROCEDE ET INSTALLATION DE COMBUSTION D'UN MELANGE GAZEUX

Publication  
**EP 0605645 B1 19970212 (EN)**

Application  
**EP 92921500 A 19921002**

Priority  
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• NL 9200172 W 19921002

Abstract (en)  
[origin: WO9307420A1] Method and installation for the combustion of a combustible gas mixture containing a hydrocarbon or hydrogen gas, sufficient air for a complete combustion of the hydrocarbon or hydrogen gas, and an essentially non-combustible ballast gas, such as air. The gas mixture is supplied to a pressure space (27) bounded by a burner plate (1; 6; 12; 15; 18) with an inlet side in the pressure space and an outlet side lying opposite the inlet side for the gas mixture flowing through at right angles to the plane of the burner plate. A burner plate is used in which between the inlet side (2; 7) and the outlet side (3; 8) one or more regions containing a large number of narrow channels for the gas throughput are formed, which regions (4; 20) have a predetermined low flow resistance, and are bounded by regions (5; 19) with a high flow resistance. The regions with a low flow resistance lie at least at such a distance from each other that on combustion of the gas mixture at the outlet side of the burner plate from each region with a low flow resistance a flame occurs which is at least almost completely separate from the flames of the other regions with a low flow resistance.

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