

Title (en)  
GAS TURBINE PLANT FOR THE PRODUCTION OF ELECTRICAL ENERGY

Title (de)  
GASTURBINENANLAGE ZUR ERZEUGUNG ELEKTRISCHER ENERGIE

Title (fr)  
INSTALLATION DE TURBINE À GAZ POUR LA PRODUCTION D'ÉNERGIE ÉLECTRIQUE

Publication  
**EP 3431877 B1 20210428 (EN)**

Application  
**EP 18184118 A 20180718**

Priority  
IT 201700081329 A 20170718

Abstract (en)  
[origin: EP3431877A1] A gas turbine plant for the production of electrical energy is provided with at least one combustor (4) comprising a combustion chamber (20) in which, in use, combustion occurs, and with at least one burner assembly (22) facing the combustion chamber (20) and fed with a mixture of air and gas; a radio-frequency electromagnetic radiation source (11) configured to selectively irradiate the combustion chamber (20) with radio-frequency electromagnetic radiations having a given frequency (F) and a given amplitude (A); at least one detecting sensor (13) configured to detect at least one parameter indicative of the presence of flame instability phenomena inside the combustion chamber (20); and at least one control device (12) configured to selectively activate the electromagnetic radiation source (11) and regulate the frequency (F) and/or the amplitude (A) of the radio-frequency electromagnetic radiations irradiated by the electromagnetic radiation source (11) on the basis of the data detected by the at least one detecting sensor (13).

IPC 8 full level  
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CPC (source: CN EP)  
**F23C 99/001** (2013.01 - CN); **F23N 5/242** (2013.01 - EP); **F23N 5/245** (2013.01 - EP); **F23R 3/16** (2013.01 - CN); **F05D 2260/964** (2013.01 - EP); **F05D 2270/08** (2013.01 - EP); **F23R 2900/00013** (2013.01 - EP)

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