

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

F23R 3/18 (2006.01); **F23N 5/24** (2006.01)

CPC (source: CN EP)

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