

Title (en)

METHOD OF OPERATING A GAS-TURBINE-POWERED GENERATING SET USING LOW-CALORIFIC-VALUE FUEL

Title (de)

VERFAHREN ZUM BETRIEB EINER GASTURBOGRUPPE MIT NIEDERKALORISCHEM BRENNSTOFF

Title (fr)

PROCEDE D'EXPLOITATION D'UN GROUPE GENERATEUR A TURBINES A GAZ AVEC DU COMBUSTIBLE DE FAIBLE POUVOIR CALORIFIQUE

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19549140A1] In the method proposed, the gas-turbined-powered generating set consists essentially of a compressor, a combustion chamber, a turbine and a generator. The low-calorific-value fuel is compressed by a fuel compressor. When the generating set is started up, low-calorific-value fuel (11a) is mixed with part of the combustion air (9, 9a) in more than stoichiometric proportions so that a stable flame is produced. At the latest when the nominal speed (B) has been reached and synchronization has been achieved, the rate of flow of the fuel (11a) is reduced until the proportions are just more than stoichiometric. The rest of the fuel (11b) is mixed in with the rest of the combustion air (9, 9b) to give the required charge.

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CPC (source: EP US)

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