

Title (en)
A PROCESS FOR GENERATING MECHANICAL POWER

Publication
EP 0086504 B1 19880309 (EN)

Application
EP 83200018 A 19830105

Priority
NL 8200585 A 19820216

Abstract (en)
[origin: EP0086504A2] Process for generating mechanical power by premixing a gaseous fuel with steam, burning the fuel/steam mixture and expanding the hot combustion gas in a turbine. Preferably the expanded gas is cooled to a temperature in the range of from 150 DEG C to 250 DEG C, and then used for heating water by indirect heat exchange to a temperature in the range of from 130 DEG C to 200 DEG C. The hot water may be evaporated into the gaseous fuel by contacting it therewith countercurrently. Steam is thus generated at a relatively low temperature by evaporating preheated water into the fuel gas stream to be burned in the combustion chamber of a gas turbine. In this way waste heat of a low temperature level can be put to good use.

IPC 1-7
F01K 21/04; **F02C 3/30**

IPC 8 full level
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CPC (source: EP)
F01K 21/047 (2013.01)

Cited by
US5054279A; EP0318706A1; EP0588392A1; EP1211401A1; EP0238835A3; US4733528A; EP0207620A3; AU583385B2; EP0384781A1; AU630919B2; US6502402B1; WO9500747A1

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