

Title (en)

METHOD OF USING SOLID SECONDARY FUEL IN FIRING THE GAS TURBINE OF A COMBINED-CYCLE POWER PLANT AND A CONNECTION FOR IMPLEMENTING SAID METHOD

Title (de)

METHODE ZUM BENUTZEN VON FESTEM SEKUNDÄREM BRENNSTOFF FÜR GASTURBINENFEUERUNG IN KOMBIKRAFTWERKEN UND VERBINDUNG ZUR DURCHFÜHRUNG DIESER METHODE

Title (fr)

PROCEDE D'UTILISATION D'UN COMBUSTIBLE SECONDAIRE SOLIDE DANS L'ALLUMAGE DE LA TURBINE A GAZ D'UNE CENTRALE ELECTRIQUE A CYCLES COMBINES ET RACCORDEMENT POUR LA MISE EN UVRE DE CE PROCEDE

Publication

**EP 0854970 A1 19980729 (EN)**

Application

**EP 96933459 A 19961010**

Priority

- FI 9600537 W 19961010
- FI 954847 A 19951012

Abstract (en)

[origin: WO9713962A1] The invention relates to a method and connection suited for using biomass, solid waste or other solid fuel as a secondary fuel for an oil- or gas-fired gas turbine. Such solid fuel may have an extremely high moisture content or be mixed with water into a slurry whose heating value may even be negative. According to the invention, the solid secondary fuel is gasified in a separate gasification unit (6, 14 - 18, 20, 21), and into the secondary fuel to be gasified is introduced supplementary energy by firing the main fuel of the gas turbine (2) in, e.g., said gasification unit (6, 14 - 18, 20, 21). The product gas made from the solid secondary fuel is used in conjunction with the main fuel for firing the gas turbine (2).

IPC 1-7

**F01K 23/06**

IPC 8 full level

**F01K 23/06** (2006.01); **F02C 3/28** (2006.01)

CPC (source: EP)

**F01K 23/067** (2013.01); **F02C 3/28** (2013.01); **Y02E 20/16** (2013.01); **Y02E 20/18** (2013.01); **Y02E 50/10** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

**WO 9713962 A1 19970417**; AU 7218496 A 19970430; EP 0854970 A1 19980729; FI 102630 B1 19990115; FI 102630 B 19990115; FI 954847 A0 19951012; FI 954847 A 19970413; HU P9802914 A2 19990329; HU P9802914 A3 20000328; PL 326198 A1 19980831

DOCDB simple family (application)

**FI 9600537 W 19961010**; AU 7218496 A 19961010; EP 96933459 A 19961010; FI 954847 A 19951012; HU P9802914 A 19961010; PL 32619896 A 19961010