

Title (en)
ENHANCED GAS POWER PLANT FOR STORING ENERGY

Title (de)
ERWEITERTES GASKRAFTWERK ZUR STROMSPEICHERUNG

Title (fr)
CENTRALE À GAZ DESTINÉE À ACCUMULER DE L'ÉNERGIE

Publication
EP 2880273 A1 20150610 (DE)

Application
EP 13729740 A 20130619

Priority
• EP 12184832 A 20120918
• EP 2013062743 W 20130619
• EP 13729740 A 20130619

Abstract (en)
[origin: EP2708719A1] The method involves operating a generator (14) as motor, so that a heated gas stream (16) is emitted from a gas turbine (10). The thermal conditioning of water in a water vapor circuit (20) is performed over a first heat exchanger (25) by heated gas stream. The thermal conditioned water is stocked in a vapor storage (40). A steam turbine (50) having water vapor removed from the vapor storage is operated. The water vapor is discharged according to interaction with the steam turbine into a vapor space (60) for condensation. The condensed water in condensate storage (70) is collected. An independent claim is included for gas-fired power station.

IPC 8 full level
F01K 3/00 (2006.01); **F01K 3/02** (2006.01); **F01K 23/10** (2006.01); **F02C 6/14** (2006.01); **F02C 6/18** (2006.01)

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F01K 3/00 (2013.01 - US); **F01K 3/02** (2013.01 - EP US); **F01K 23/10** (2013.01 - EP US); **F02C 6/14** (2013.01 - EP US); **F02C 6/18** (2013.01 - EP US); **F05D 2220/62** (2013.01 - EP US); **Y02E 20/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2014044425A1

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EP 2708719 A1 20140319; EP 2880273 A1 20150610; US 2015252726 A1 20150910; WO 2014044425 A1 20140327

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