

Title (en)

POWER PLANT LINE HAVING A VARIABLE-SPEED PUMP

Title (de)

KRAFTWERKSSTRANG MIT EINER DREHZAHLVARIABLEN PUMPE

Title (fr)

BRANCHE DE CENTRALE COMPRENANT UNE POMPE VARIABLE EN RÉGIME

Publication

**EP 2556217 A2 20130213 (DE)**

Application

**EP 11710697 A 20110318**

Priority

- DE 102010014588 A 20100409
- EP 2011001344 W 20110318

Abstract (en)

[origin: DE102010014588A1] The power station has a steam turbine (1) and/or gas turbine rotating at a constant speed to drive an electricity generator (2). A pump (3) with a variable speed, to feed and/or compress the working medium to the drive and/or give a process supply to the turbine, is driven by the turbine. A gearing (4) with a speed control has a mechanical main power output (5) and a hydrodynamic branch (6) with a coupling with an overlaid gearing (4) to give a variable speed at the drive output.

IPC 8 main group level

**F01K** (2006.01)

CPC (source: EP KR US)

**F01D 15/12** (2013.01 - KR); **F01K 9/02** (2013.01 - EP KR US); **F02C 7/36** (2013.01 - EP KR US); **F16H 47/08** (2013.01 - KR); **F16H 47/085** (2013.01 - EP KR US); **Y02E 20/16** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2011124322A2

Citation (examination)

- WO 9815777 A1 19980416 - SIEMENS AG [DE], et al
- US 4087860 A 19780502 - BEATTY JOHN M, et al
- WO 2008065517 A2 20080605 - ANSALDO ENERGIA SPA [IT], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102010014588 A1 20101118**; CN 103221644 A 20130724; CN 103221644 B 20160316; EP 2556217 A2 20130213; JP 2013527895 A 20130704; JP 5738398 B2 20150624; KR 20130093484 A 20130822; US 2013133335 A1 20130530; WO 2011124322 A2 20111013; WO 2011124322 A3 20130418

DOCDB simple family (application)

**DE 102010014588 A 20100409**; CN 201180018231 A 20110318; EP 11710697 A 20110318; EP 2011001344 W 20110318; JP 2013503025 A 20110318; KR 20127029080 A 20110318; US 201113639477 A 20110318