

Title (en)
Steam power station comprising a tuning turbine

Title (de)
Dampfkraftwerk umfassend eine Tuning-Turbine

Title (fr)
Centrale à vapeur comprenant une turbine de réglage

Publication
EP 2362073 A1 20110831 (DE)

Application
EP 10164091 A 20100527

Priority
DE 102010009130 A 20100223

Abstract (en)
The power plant (1) has a feed pump propulsion turbine (18) i.e. steam turbine, for driving a feed water pump. A cold reheater line (19) of the feed pump propulsion turbine is flow-technically connected with a cold reheater line (9) of the main turbo set. A steam pipe (27) of the feed pump propulsion turbine is connected with a main condenser (15). A throttle body (30) is arranged between the steam pipe and the main capacitor. The steam pipe is connected with condenser (23). The main turbo set drives an electrical generator (28) for producing electrical power. An independent claim is also included for a method for operating a tuning-turbine in a steam power plant.

Abstract (de)
Die Erfindung betrifft ein Dampfkraftwerk (1) mit einer Speisepumpen-Antriebsturbine (18), die ausgangsseitig zusätzlich mit einem Hauptkondensator (15) verbunden ist.

IPC 8 full level
F01K 9/02 (2006.01); **F01K 17/06** (2006.01)

CPC (source: EP)
F01K 9/02 (2013.01); **F01K 17/06** (2013.01)

Citation (search report)

- [X] JP S58143106 A 19830825 - TOKYO SHIBAURA ELECTRIC CO
- [X] US 4087860 A 19780502 - BEATTY JOHN M, et al
- [A] US 4043130 A 19770823 - BROWN ROBERT O, et al
- [X] US 3972196 A 19760803 - SILVESTRI JR GEORGE J
- [X] WO 9427033 A1 19941124 - SEVILLANA DE ELECTRICIDAD S A [ES], et al
- [X] US 5404724 A 19950411 - SILVESTRI JR GEORGE J [US]
- [X] US 5533337 A 19960709 - KUSAYAMA YOSIO [JP]
- [A] DE 19507167 C1 19960502 - SIEMENS AG [DE]

Cited by
EP2444596A3; WO2018010878A1

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2362073 A1 20110831; CN 102770625 A 20121107; CN 102770625 B 20151202; DE 102010009130 A1 20110825; EP 2539550 A1 20130102; WO 2011104223 A1 20110901

DOCDB simple family (application)
EP 10164091 A 20100527; CN 201180010808 A 20110222; DE 102010009130 A 20100223; EP 11706801 A 20110222; EP 2011052583 W 20110222