

Title (en)
POWER PLANT WITH HEAT RESERVOIR

Title (de)
KRAFTWERK MIT WÄRMESPEICHER

Title (fr)
CENTRALE ÉLECTRIQUE À RÉSERVOIR THERMIQUE

Publication
EP 3469190 B1 20200226 (DE)

Application
EP 17735045 A 20170626

Priority
• DE 102016214447 A 20160804
• EP 2017065645 W 20170626

Abstract (en)
[origin: WO2018024409A1] The invention relates to a power plant (1) having a steam circuit (2) which can be supplied, in the region of a heat recovery steam generator (3), with thermal energy for producing steam, the steam circuit (2) comprising, in the region of the heat recovery steam generator (3), a high pressure part (11), a medium pressure part (12) and a low pressure part (13). In addition, a heat reservoir (20) which has a phase change material (21) and which is not situated in the region of the heat recovery steam generator (3) is included, wherein, in order to supply the heat reservoir (20) with thermally processed water, a supply line (25) which leads out from the high pressure part (11) or the medium pressure part (12) is included and a discharge line (26) which leads into the medium pressure part (12), the low pressure part (13) or a steam turbine (4) is included for discharging thermally processed water from the heat reservoir (20).

IPC 8 full level
F01K 3/00 (2006.01); **F01K 3/06** (2006.01); **F01K 13/02** (2006.01); **F01K 23/10** (2006.01)

CPC (source: EP KR US)
F01K 3/004 (2013.01 - EP KR US); **F01K 3/06** (2013.01 - EP KR US); **F01K 3/14** (2013.01 - US); **F01K 13/003** (2013.01 - KR); **F01K 13/02** (2013.01 - KR); **F01K 23/10** (2013.01 - EP US); **F01K 23/106** (2013.01 - EP KR US); **F01K 13/02** (2013.01 - EP US)

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)
WO 2018024409 A1 20180208; CN 109563746 A 20190402; CN 109563746 B 20220426; DE 102016214447 A1 20180208; DE 102016214447 B4 20201224; EP 3469190 A1 20190417; EP 3469190 B1 20200226; ES 2787031 T3 20201014; JP 2019527791 A 20191003; JP 6803966 B2 20201223; KR 102165184 B1 20201013; KR 20190034602 A 20190402; US 10794226 B2 20201006; US 2019301306 A1 20191003

DOCDB simple family (application)
EP 2017065645 W 20170626; CN 201780048690 A 20170626; DE 102016214447 A 20160804; EP 17735045 A 20170626; ES 17735045 T 20170626; JP 2019504857 A 20170626; KR 20197005748 A 20170626; US 201716315736 A 20170626