

Title (en)
HEAT RECOVERY STEAM GENERATOR AND THERMAL STEAM GENERATION PLANT

Title (de)
WÄRMERÜCKGEWINNUNGSDAMPFERZEUGER UND DAMPFKRAFTWERK

Title (fr)
GÉNÉRATEUR DE VAPEUR À RÉCUPÉRATION DE CHALEUR ET CENTRALE THERMIQUE À VAPEUR

Publication
EP 4083502 A1 20221102 (EN)

Application
EP 22170899 A 20220429

Priority
IT 202100010919 A 20210429

Abstract (en)
A recovery steam generator (4) comprises: a flue-gases flowing chamber (11) extending along a longitudinal axis (A) and provided with an inlet (16) and an outlet (17); a steam circuit (14) supplied with water and extending at least partially within the flue-gases flowing chamber (11) so as to exploit the heat of the flue-gases to generate steam; the steam circuit (14) comprising: a superheating section (20) comprising at least two superheating banks (22; 27) arranged in series with each other; a plurality of connecting pipes (25, 29) configured to connect the at least two superheating banks (22; 27) in series with each other; at least a plurality of first injection pipes (30; 31) configured to inject a first heat transfer fluid into each of the connecting pipes (25; 25, 29); a control device (34) configured to regulate the flow rate of the first heat transfer fluid supplied via the first injection pipes (30; 31).

IPC 8 full level
F22G 1/02 (2006.01); **F01K 23/10** (2006.01); **F22G 5/12** (2006.01); **F22G 5/14** (2006.01); **F22G 7/12** (2006.01)

CPC (source: EP)
F01K 23/10 (2013.01); **F22G 1/02** (2013.01); **F22G 5/12** (2013.01); **F22G 7/12** (2013.01); **F22G 5/123** (2013.01); **F22G 5/14** (2013.01)

Citation (applicant)

- WO 2008152205 A1 20081218 - AAF CONSULT OY [FI], et al
- US 2016273406 A1 20160922 - OLIA HAMID [CH], et al
- US 2008236139 A1 20081002 - ONAKA IKUO [JP], et al
- US 2011203274 A1 20110825 - BERGER FRED [DE]
- US 2014096535 A1 20140410 - ESAKKI LAKSHMANAN [IN], et al

Citation (search report)

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- [X] US 2016273406 A1 20160922 - OLIA HAMID [CH], et al
- [X] US 2008236139 A1 20081002 - ONAKA IKUO [JP], et al
- [X] US 2011203274 A1 20110825 - BERGER FRED [DE]
- [X] US 2014096535 A1 20140410 - ESAKKI LAKSHMANAN [IN], et al
- [A] US 2008302102 A1 20081211 - CHENG XU [US], et al

Designated contracting state (EPC)
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Designated extension state (EPC)
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Designated validation state (EPC)
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