

Title (en)
DEVICE FOR GENERATING POWER

Title (de)
VORRICHTUNG ZUR ENERGIEERZEUGUNG

Title (fr)
DISPOSITIF DE PRODUCTION D'ÉNERGIE

Publication
EP 2217793 B1 20180321 (DE)

Application
EP 08844382 A 20081031

Priority
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Abstract (en)
[origin: WO2009056341A2] The invention relates to a device for generating power according to the ORC principle, comprising at least two, especially three working medium circuits (10, 20, 30), each of which encompasses at least one condenser (42), an evaporator (11, 21, 31), and a partial preheater (12, 13, 22, 23, 33) and which are coupled by means of a common heating medium circuit (50) such that all of a heating medium flow is fed to the evaporators (11, 21, 31) and part of said heating medium flow is fed to the preheaters (12, 13, 22, 23, 33). The invention is characterized in that a first working medium circuit (10) has at least one additional preheater (15) which is coupled to the heating medium circuit (50) in such a way that all of the heating medium flow is fed to the additional preheater (15).

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CPC (source: EP)
F01K 23/02 (2013.01); **F01K 25/10** (2013.01)

Citation (examination)
DIPIPO R: "CHAPTER 17: HEBER BINARY PLANTS IMPERIAL VALLEY, CALIFORNIA, CALIFORNIA, USA", GEOTHERMAL POWER PLANTS:PRINCIPLES, APPLICATIONS AND CASE STUDIES,, vol. 4, no. 4, 1 January 1996 (1996-01-01), pages I - XII, XP003035288, ISBN: 978-1-85617-474-9

Citation (opposition)
Opponent : Turboden S.p.A.
• JP S61132710 A 19860620 - TOSHIBA CORP
• US 5860279 A 19990119 - BRONICKI LUCIEN Y [IL], et al
• GB 2162583 A 19860205 - ORMAT TURBINES
• US 5531073 A 19960702 - BRONICKI LUCIEN Y [IL], et al
• US 2006026961 A1 20060209 - BRONICKI LUCIEN Y [IL]
• "Geothermal power plants - principles, applications and case studies", 2005, article RONALD DIPIPO: "Chapter 17", pages: 370 - 380, XP055542187
• ROBERT SONES ET AL.: "Binary Geothermal Power Plant Development at the Heber, California Geothermal Resource Area", GEOTHERMAL RESOURCES COUNCIL TRANSACTIONS, vol. 23, 17 October 1999 (1999-10-17), XP055542202
• 400KW GEOTHERMAL POWER PLANT AT CHENA HOT SPRINGS: "Chena Power Geothermal Power Plant", CHENA POWER COMPANY, 4 February 2007 (2007-02-04), pages 1 - 38, XP055542869
• MEHMET KANOGLU: "Exergy analysis of a dual-level binary geothermal power plant", DEPARTMENT OF MECHANICAL ENGINEERING, vol. 31, 2002, pages 709 - 724, XP055542878
• URI KAPLAN: "Organic Rankine Cycle Configurations", ORMAT TECHNOLOGIES , PROCEEDINGS EUROPEAN GEOTHERMAL CONGRESS 2007 UNTERHACHING, 30 May 2007 (2007-05-30), Germany, pages 1 - 5, XP055542881
• ULLI DRESCHER ET AL.: "Vergleich des Organic Rankine Cycle und des Kalina Cycle fuer geothermische Stromerzeugung", GEOTHERMISCHE FACHTAGUNG 2006, 15 November 2006 (2006-11-15), pages 40 - 53, XP055542886
• W. NOWAK ET AL.: "Assessment of the effectiveness of operation of geothermal power plant aided by CHP unit and supplying evaporators connected serially", BORSUKIEWICZ-GOZDUR, November 2006 (2006-11-01), pages 336 - 345, XP055542891

Cited by
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