

Title (en)  
COGENERATION APPARATUS FOR HEAT AND ELECTRIC POWER PRODUCTION

Title (de)  
KOGENERATIONSVORRICHTUNG ZUR ERZEUGUNG VON WÄRME UND ELEKTRISCHER ENERGIE

Title (fr)  
APPAREIL DE COGÉNÉRATION UTILISÉ POUR PRODUIRE DE LA CHALEUR ET DE L'ÉNERGIE ÉLECTRIQUE

Publication  
**EP 2337938 A2 20110629 (EN)**

Application  
**EP 09708361 A 20090205**

Priority  
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• IT BO20080079 A 20080206

Abstract (en)  
[origin: WO2009098580A2] The cogeneration apparatus for producing heat and electric power comprises a boiler (1), fit to generate heat inside a boiler furnace or combustion chamber (11). Inside the boiler furnace (11) there is provided the hot section (21) of a Stirling cycle engine (20), fit to be heated and kept at a high operating temperature by the heat generated inside the same boiler furnace (11). A corresponding Stirling engine cold section (25) is provided outside the main body (2) of boiler (1). The cold section (25) is thermally insulated by the hot section (21), and it is kept in a thermodynamic fluid communication relationship with this latter by means of a pipe (35). The hot section (21) and cold section (25) are moreover mechanically connected one each other, and they are also mechanically connected to an electric generator (50), fit to convert a part of the mechanic power produced by the Stirling engine into electric power.

IPC 8 full level  
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CPC (source: EP US)  
**F02G 1/043** (2013.01 - EP); **F02G 3/02** (2013.01 - EP); **F24D 18/00** (2022.01 - EP US); **F02G 2244/08** (2013.01 - EP);  
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Citation (search report)  
See references of WO 2009098580A2

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