

Title (en)  
WASTE HEAT RECOVERY INSTALLATION

Title (de)  
ABWÄRMENUTZUNGSANLAGE

Title (fr)  
INSTALLATION À RÉCUPÉRATION DE CHALEUR PERDUE

Publication  
**EP 2655810 A1 20131030 (DE)**

Application  
**EP 11802938 A 20111221**

Priority  
• DE 102010056272 A 20101224  
• EP 2011073602 W 20111221

Abstract (en)  
[origin: WO2012085093A1] The invention relates to a waste heat recovery installation for a waste heat source (10), comprising an ORC (Organic-Rankine-Cycle) that is mounted downstream of said waste heat source, the waste heat source (10) being connected to the heating device of the ORC, and an expansion engine (4) coupled to a generator (5) for steam expansion in the ORC. The aim of the invention is to optimize a combined heat and power plant, a waste heat recovery installation consisting of an ORC mounted downstream of a waste heat source, with respect to design and operating behavior. According to the invention, the expansion engine (4) for steam expansion in the ORC is started up by the generator (5) which operates in the motor mode and is brought to a minimum starting rotational speed predefined in a regulation device.

IPC 8 full level  
**F01K 13/02** (2006.01); **F01K 23/06** (2006.01); **F01K 23/10** (2006.01); **F01K 25/10** (2006.01)

CPC (source: EP US)  
**F01K 13/02** (2013.01 - EP US); **F01K 23/065** (2013.01 - EP US); **F01K 23/101** (2013.01 - EP US); **F01K 23/12** (2013.01 - US); **F01K 25/08** (2013.01 - US); **F01K 25/10** (2013.01 - EP US); **Y02P 80/15** (2015.11 - EP US)

Citation (search report)  
See references of WO 2012085093A1

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 2012085093 A1 20120628**; CN 103270254 A 20130828; CN 103270254 B 20150923; DE 102010056272 A1 20120628; EP 2655810 A1 20131030; RU 2013134395 A 20150127; RU 2589985 C2 20160710; US 2014013750 A1 20140116

DOCDB simple family (application)  
**EP 2011073602 W 20111221**; CN 201180062100 A 20111221; DE 102010056272 A 20101224; EP 11802938 A 20111221; RU 2013134395 A 20111221; US 201113997587 A 20111221