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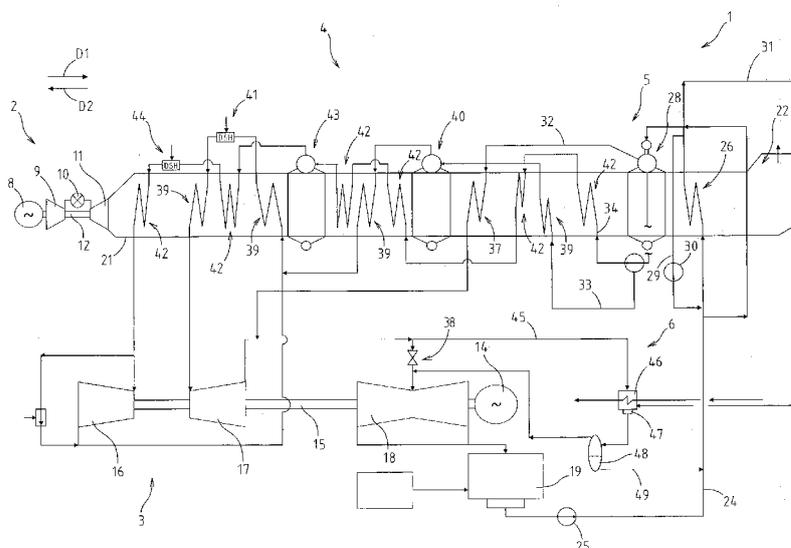
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5 January 2012

(54) **Title:** COMBINED-CYCLE PLANT FOR THE PRODUCTION OF ELECTRIC AND THERMAL ENERGY AND METHOD FOR OPERATING SAID PLANT



(57) **Abstract:** A combined-cycle plant for the production of electric and thermal energy is provided with: a gas turbine unit (2); a steam turbine unit (3) comprising a low-pressure steam turbine (18); a boiler (4); and a district-heating unit (6), which is provided with a heat exchanger (46) for transferring heat to a district-heating fluid and with a flash tank vessel (48). The heat exchanger (46) is provided with a condensate collecting vessel (46) and the flash tank vessel (47) is designed to receive condensate from the condensate collecting vessel (46), generate steam and supply the generated steam to a first point upstream of the inlet of the low-pressure steam turbine (18).

WO 2011/080576 A3

# INTERNATIONAL SEARCH REPORT

International application No PCT/IB2010/003360
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**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. F01K17/02 F01K21/04 F01K23/10  
 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 F01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 100 356 A (WIMPEY M E & C GEORGE LTD) 22 December 1982 (1982-12-22) page 2, line 112 - page 3, line 28 -----	1,8
A	EP 0 602 795 A2 (FOSTER WHEELER ENERGY CORP [US]) 22 June 1994 (1994-06-22) column 4, line 55 - column 5, line 46 -----	1,8
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A	US 4 402 183 A (DIMITROFF VLADIMIR T [US] ET AL) 6 September 1983 (1983-09-06) column 3, line 7 - line 38 -----	1,8

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

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- "E" earlier document but published on or after the international filing date
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- "&" document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No <b>PCT/IB2010/003360</b>
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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