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(54) Heat-recovery boiler provided with divergent duct

(57) A heat-recovery boiler provided with a divergent duct that runs from the outlet of a turbine to the inlet of a boiler; the covering wall of the divergent duct, which runs from the top of the boiler to the top of the outlet of the turbine, is inclined at an angle (α) which is greater than 45° and up to 75° with respect to the horizontal plane; the divergent duct is connected with the upper part of the outlet of the turbine by means of an arc-shaped wall portion; inside the divergent duct, in the region delimited by the arc-shaped wall, gas stream conveyance profiles are provided which are arranged in succession and in adjacent rows.

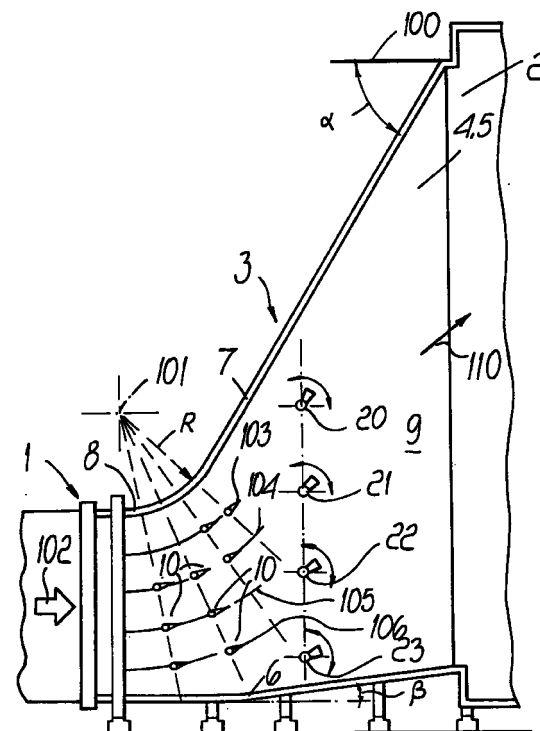


Fig. 1

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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	BAUVER W P ET AL: "Gas turbine heat recovery steam generator system performance improvement through gas flow optimization" 6TH INTERNATIONAL CONFERENCE ON GAS TURBINES IN COGENERATION AND UTILITY INDUSTRIAL AND INDEPENDENT POWER GENERATION - 1992 ASME COGEN-TURBO;HOUSTON, TX, USA SEP 1-3 1992, vol. 7, 1992, pages 303-310, XP002103649 ASME Int Gas Turbine Inst Publ IGTI;American Society of Mechanical Engineers, International Gas Turbine Institute (Publication) IGTI 1992 Publ by ASME, New York, NY, USA * page 303, paragraph 2 - page 303, paragraph 3 *	1	F22B1/18 F01D25/30 F01K23/10
A	US 5 110 560 A (PRESZ JR WALTER M ET AL) 5 May 1992 * abstract; figure 7 *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	US 5 431 009 A (BAUVER II WESLEY P) 11 July 1995 The whole document * figure 1 *	2	F22B F01D F16L
A	US 5 555 718 A (MALO MARK R ET AL) 17 September 1996 * column 2, line 66 - column 3, line 19; figure 1 *	2	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 May 1999	Examiner Busuiocescu, B
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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