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(54) **Radiator, particularly for heating systems or the like, with high thermal performance and very quiet operation**

(57) A radiator (1a), particularly for heating systems or the like, with high thermal performance and very quiet operation, comprising a radiator body (2a) in which there is a chamber (3a) which is separated hermetically from the outside environment, the chamber (3a) being filled partially with a liquid (4a) which gathers on the bottom of the chamber and being in partial vacuum at ambient temperature, the radiator (1a) being provided with means (5a) for heating the liquid (4a) which are separated with a liquid-tight seal from the liquid by a heat exchange surface (6a), the heat exchange surface (6a) emerging at least partially from the free surface of the liquid (4a) contained in the chamber (3a), a capillary structure (7a) being provided which lies at least between the free surface of the liquid (4a) and the heat exchange surface (6a) and being adapted to convey the liquid (4a) onto the heat exchange surface (6a).

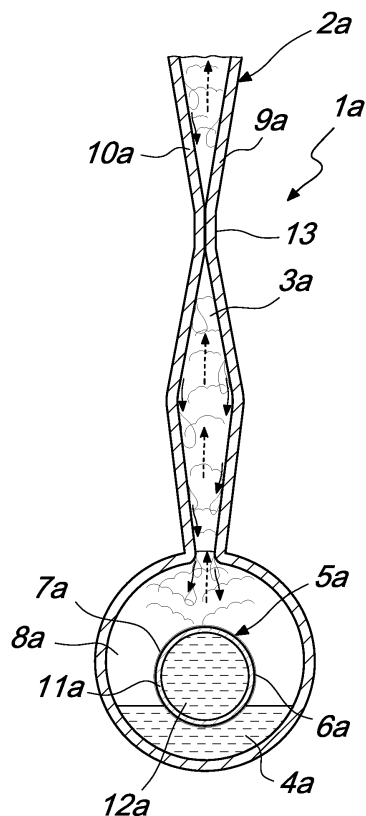


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 08 15 8106

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	* page 2, line 81 - line 130; figures 1-3 *	10-13, 15,17-18	F28D15/04 F24H3/00
Y	----- EP 1 696 181 A1 (HEATING COMPANY BVBA [BE]) 30 August 2006 (2006-08-30) * paragraphs [0026], [0030], [0031]; figure 1 *	10-11	
Y	----- US 2006/196641 A1 (HONG CHU-WAN [CN] ET AL) 7 September 2006 (2006-09-07) * paragraph [0016]; figure 3 *	15	
Y	----- WO 2006/098535 A1 (CTI LTD [CN]; BAE MIN HYUN [KR]; CHAN CHI TAU [CA]) 21 September 2006 (2006-09-21) * paragraphs [0022] - [0036], [0045]; figures 2,3 *	17-18	
X	----- US 1 750 907 A (SKOLD JOHN F) 18 March 1930 (1930-03-18)	1,6-9	TECHNICAL FIELDS SEARCHED (IPC)
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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 2 March 2010	Examiner Beltzung, Francis
<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
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 15 8106

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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