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(71) Applicant *(for all designated States except US)*: **IMMOBILE WORLDWIDE LTD.** [HU/HU]; Soroksari út 160, H-1095, Budapest (HU).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **GÁSPÁR, Andor** [HU/HU]; Szántó u. 3., H-7400 Kaposvár (HU).

(74) Agent: **KACSUK, Zsófia**; Üteg u. 11/a, H-1139 Budapest (HU).

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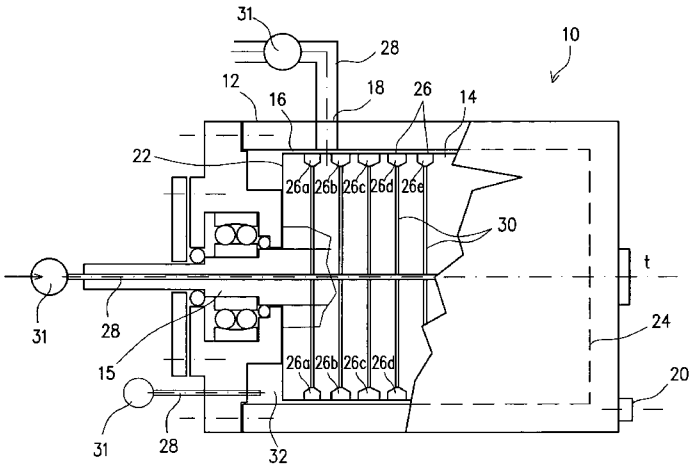


Fig. 1

(57) Abstract: The present invention relates to a heating device (10, 10') comprising a housing (12) and a rotatably mounted rotor (14) having a rotation axis (t), the housing (12) having a fluid inlet (18) and a fluid outlet (20), a clearance space (16) being provided between the rotor (14) and the housing (12) for allowing fluid communication, the surface of the rotor (14) being provided with recesses for generating cavitation, wherein the recesses are formed with varying size along a spiral path (44), in particular with periodically increasing and decreasing size. The invention further relates to fluid circulation type heating apparatus (60) having a primary circuit (62) and a secondary circuit (64), and having a heat exchanger (66) between the primary circuit (62) and the secondary circuit (64), wherein the primary circuit (62) comprises a heating device (10, 10') according to any of claims 1 to 10.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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)
F24J

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, WPI Data

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Y A	WO 2005/003641 A2 (THOMA CHRISTIAN HELMUT [GB]; PATCH ROBERT J [US]) 13 January 2005 (2005-01-13) page 4, paragraph 2-3 page 31, paragraph 2 - page 32, paragraph 1 figures	4 3

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Oliveira, Casimiro

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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