

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 February 2007 (15.02.2007)

PCT

(10) International Publication Number
WO 2007/018441 A3

(51) International Patent Classification:

F22B 1/22 (2006.01) *F22B 27/08* (2006.01)
F22B 21/26 (2006.01)

(21) International Application Number:

PCT/PL2006/000056

(22) International Filing Date: 7 August 2006 (07.08.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

P376594 11 August 2005 (11.08.2005) PL

(71) Applicant and

(72) Inventor: JANÓW, Gwidon [PL/PL]; ul. Folwark 28,
PL-34-300 Zywiec (PL).

(74) Agent: RYGIEL, Andrzej; Kancelaria Rzecznika Paten-
towego, ul. Bohaterów Warszawy 26 Lok. F, PL-43-300
Bielsko-Biala (PL).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,
LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC,
SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

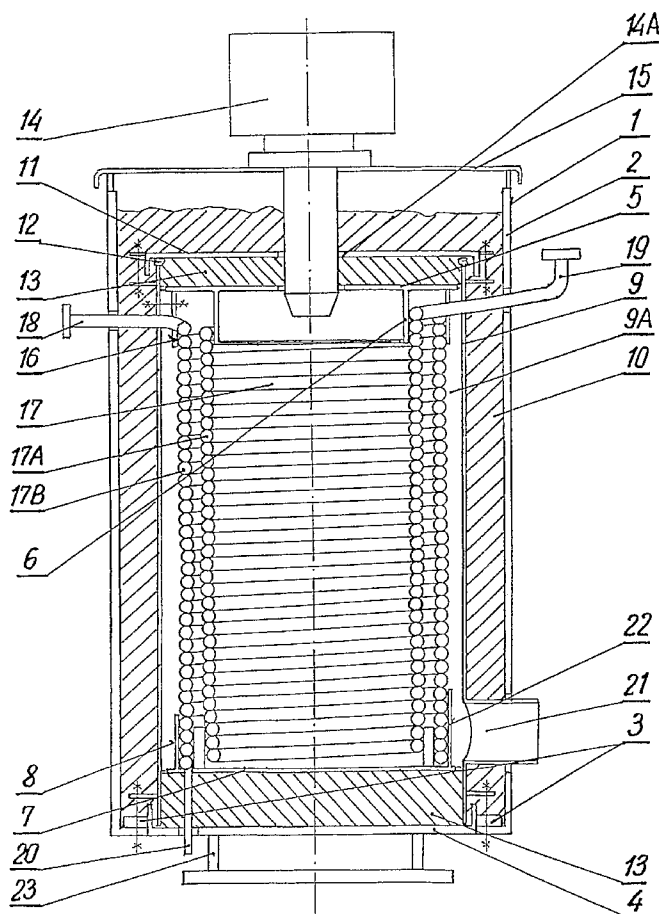
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: STEAM GENERATOR



(57) Abstract: The object of the invention is a steam generator intended for quick steam generation. The steam generator consists of an external jacket (1), fixed to a frame (2), attached to a lower cover (4) with connectors (3). Inside the external jacket (1) there is a cylindrical casing (9) of a combustion chamber (9A) limited by upper reversible cover (5) with a flange (6), lower reversible cover (7) with a flange (8) and by the cylindrical casing (9) of the combustion chamber (9A), which is wrapped into insulation (10) and closed with an upper cover (11) and the lower cover (4). The upper reversible cover (5) with the flange (6) is freely set in slings (16) of a coil pipe (17) that are screwed to the casing of the combustion chamber (9) in a separable way. The flange (6) is slid to the inside of the internal coil (17A) of the coil pipe (17). Sealing in the form of cord (12) is placed between the flange (6) and the internal coil (17A).



(88) Date of publication of the international search report:

21 June 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No
PCT/PL2006/000056

A. CLASSIFICATION OF SUBJECT MATTER
INV. F22B1/22 F22B21/26 F22B27/08

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)
F22B

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, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 856 475 A (NICOLAS SAINDERICHIN, ALAIN DE LAMBILLY) 14 June 1940 (1940-06-14) page 1, line 55 - page 3, line 89; figure 1	1
A	DE 34 06 485 A1 (AHLGRIMM HERBERT) 29 August 1985 (1985-08-29) page 8, last paragraph - page 16, last paragraph; figure 1	1
A	FR 2 191 080 A1 (WANSON CONSTR MAT THERM [BE]) 1 February 1974 (1974-02-01) the whole document	1
A	US 3 065 741 A (GEORGE GERARD) 27 November 1962 (1962-11-27) the whole document	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

26 April 2007

Date of mailing of the international search report

07/05/2007

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Zerf, Georges

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/PL2006/000056

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 856475	A	14-06-1940	NONE
DE 3406485	A1	29-08-1985	NONE
FR 2191080	A1	01-02-1974	CH 573576 A5 15-03-1976 DE 2330503 A1 03-01-1974 ES 416152 A1 01-03-1976 IT 989100 B 20-05-1975
US 3065741	A	27-11-1962	NONE