



- (51) International Patent Classification:
B29C 49/68 (2006.01) *B29B 13/02* (2006.01)
- (21) International Application Number:
PCT/IB2012/053461
- (22) International Filing Date:
6 July 2012 (06.07.2012)
- (25) Filing Language: Italian
- (26) Publication Language: English
- (30) Priority Data:
RM2011A000319 17 June 2011 (17.06.2011) IT
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: CONTAINER PREFORM HEATING PLANT

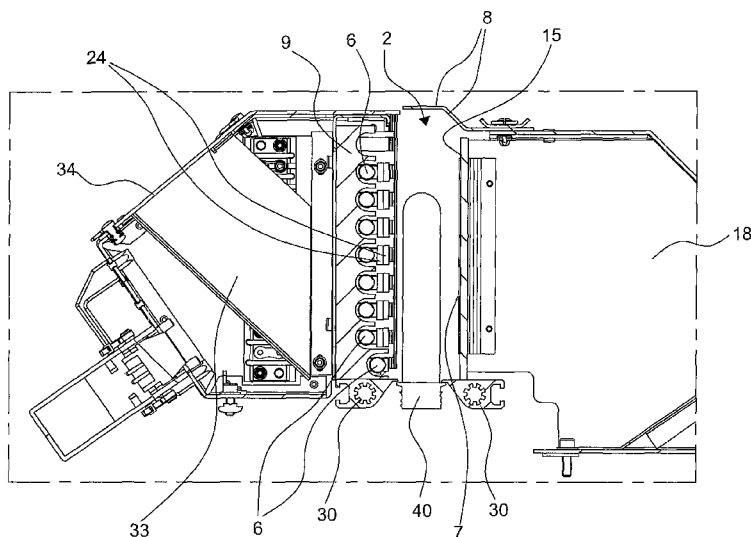


Fig. 3

(57) Abstract: A preform heating plant comprising heating modules defining two tunnels (2, 2') for the passage of the preforms, each module (T) comprising a central portion (16) with forced ventilation means (4, 5) and two lateral portions (17) with IR lamps (6); wherein the central portion and lateral portions define a length stretch of the two tunnels, each stretch being delimited on a first side by the lamps; on a second stretch by a first plate (7); on a third side by a second plate (8); said length stretch being open at the level of a fourth side for the passage of the preforms; wherein the first plates close ends (15) of the central portion and are provided with slots (14) for the passage of air from the central portion to the respective length stretches; and wherein the lamps are housed in substantially C-shaped housings (10, 10').





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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
 - *with information concerning request for restoration of the right of priority in respect of one or more priority claims (Rules 26bis.3 and 48.2(b)(vii))*

(88) Date of publication of the international search report:
7 February 2013

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2012/053461

A. CLASSIFICATION OF SUBJECT MATTER

INV. B29C49/68 B29B13/02
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)

B29C B29B

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 practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 950 283 A1 (SIDEL PARTICIPATIONS [FR]) 25 March 2011 (2011-03-25)	1,4,5
Y	page 1, line 5 - line 30 page 5, line 1 - line 5 page 6, line 1 - line 15 page 7, line 6 - line 29 page 8, line 1 - line 7 figures 1,2	2,3
Y	----- US 6 632 087 B1 (ARMELLIN ALBERTO [IT] ET AL) 14 October 2003 (2003-10-14) column 4, line 18 - column 5, line 44 figure 1	1-5
Y	----- US 2007/224307 A1 (ZOPPAS MATTEO [IT] ET AL) 27 September 2007 (2007-09-27) paragraph [0044] - paragraph [0047] figures 3,7	1-5
	----- -/-	



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 application or patent 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

17 October 2012

Date of mailing of the international search report

07/12/2012

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2012/053461

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 361 301 B1 (SCAGLOTTI RONALD L [US] ET AL) 26 March 2002 (2002-03-26) column 3, line 30 - column 4, line 2 figures 2,3 -----	1-5
Y	EP 2 216 161 A1 (KRONES AG [DE]) 11 August 2010 (2010-08-11) paragraph [0015] -----	2,3
Y	US 4 605 839 A (RASMUSSEN DAVID E [US] ET AL) 12 August 1986 (1986-08-12) column 1, line 34 - line 54 -----	2,3
A	US 2004/016749 A1 (MIYAZAWA HISASHI [JP] ET AL) 29 January 2004 (2004-01-29) the whole document -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2012/053461

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2950283	A1	25-03-2011	NONE
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2012/053461

Patent document cited in search report	Publication date	Patent family member(s)	Publication date

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2012/053461

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5

Reflectors in a heating tunnel with a gold coating

2. claims: 6-9

Shape of a housing for infrared-lamps

3. claims: 10-13

Arrangement of housings for infrared-lamps

4. claims: 14-16

Arrangement of ventilation slots in a plate

5. claim: 17

Fixing means for infrared lamps
