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1525 Howe Street, Racine, WI 53403 (US).(81) Designated States (unless otherwise indicated, for every
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AO, AT, AU, AZ, BA, BB, BG, BH, BN, 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,
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MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
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SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM,
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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,
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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
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[Continued on next page]

(54) Title: CANDLE DISPENSER

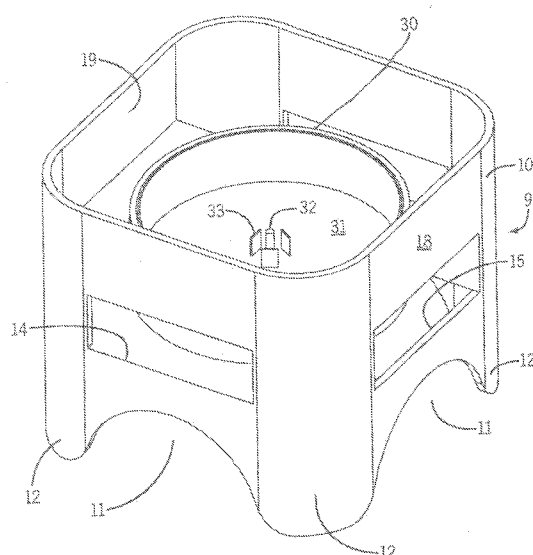


FIG. 1

(57) Abstract: Devices dispense air treatment chemicals in response to heat generated by a candle. Heat transfer elements carry flame heat to an impregnated substrate that is positioned mostly or entirely below the candle. The air treatment chemical vapors are kept away from prolonged direct exposure to flame heat, thereby reducing heat degradation of the active. The candle automatically adjusts heat transfer rates to correct for decreasing amounts of active on the substrate as the substrate nears being used up.



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INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER

INV. A61L9/03

ADD. C11C5/00 A01M1/20

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)

A61L A01M C11C

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	WO 01/59047 A1 (RAY ROBERT H [US]) 16 August 2001 (2001-08-16)	1
Y	claims 1, 2, 3, 9; figure 1 -----	2-5,7-9
X	GB 2 059 434 A (AVON PROD INC) 23 April 1981 (1981-04-23)	1
Y	page 2, lines 19-23; figure 2 -----	2-5,7-9
Y	US 2006/057524 A1 (JAMESON ELIZABETH J [US] ET AL) 16 March 2006 (2006-03-16)	2-5,7-9
A	paragraphs [0028], [0027]; claim 1; figures 4, 6, 7 -----	6
Y	US 2007/292812 A1 (FURNER PAUL E [US] ET AL) 20 December 2007 (2007-12-20)	2-5,7-9
A	figures 1, 2 -----	6
	-/--	



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

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"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

1 October 2014

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2007/012036 A1 (JOHNSON & SON INC S C	2-5,7-9
	[US]; KUBICEK CHRIS A [US]; NELSON CORY J	
	[US]) 25 January 2007 (2007-01-25)	
A	claim 1; figures 1, 6	6

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/041924

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.:

1-9

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: 1-9

Candle comprising a substrate bearing a chemical compound,
the substrate being positioned in part under the candle

2. claims: 10-14

Candle comprising a substrate bearing a chemical compound
and a heat transfer structure having an axially extending
fin element adjacent to the wick and a radially extending
element placed below the candle, the substrate being
positioned adjacent to the radially extending element

3. claim: 15

Candle comprising a substrate bearing a chemical compound
and a heat transfer structure mounted to the candle wax

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2014/041924

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