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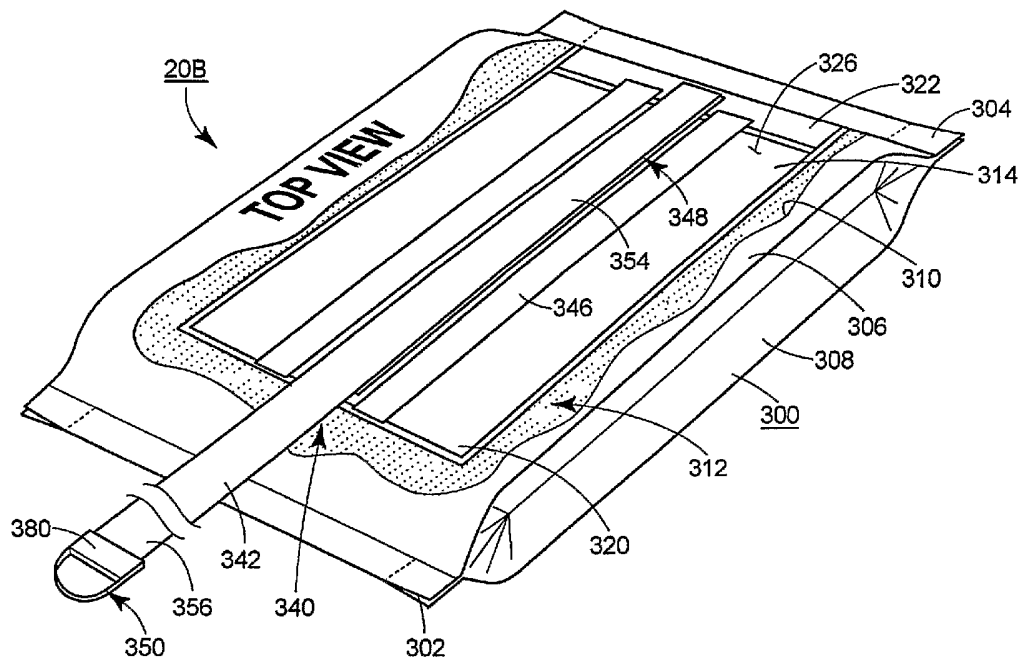
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[Continued on next page]

(54) Title: HEATER PRODUCT, SYSTEM AND COMPOSITION



(57) Abstract: A heater product may have a first cavity in which a first part of a heater composition is disposed, a second cavity in which a second part of a heater composition is disposed, and a barrier between the first cavity and the second cavity, such that when the barrier is removed, the first and second parts combine to provide an exothermic reaction. A pull strip may be used to remove the barrier, and at least one reinforcing strip may be used to guide the pull strip. The first part may include calcium oxide and the second part may include water, an reaction-initiation delayer and water-release limiter.

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/014691

A. CLASSIFICATION OF SUBJECT MATTER
INV. C09K5/18 F24J1/00

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)
C09K 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, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 94/11682 A (GREWAL, SURINDER, PAL) 26 May 1994 (1994-05-26) claims; figures	1-11
Y	US 3 871 357 A (GROSSO ET AL) 18 March 1975 (1975-03-18) the whole document	1-11
Y	US 4 142 508 A (WATSON ET AL) 6 March 1979 (1979-03-06) column 7, line 22 - column 9, line 65 claims 1,2,5-7	1-11
Y	US 3 903 011 A (DONNELLY ET AL) 2 September 1975 (1975-09-02) column 4, line 6 - line 9 column 5, line 9 - column 6, line 3 claims; figures	1-11
	-/-	

☒ 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)

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"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

24 August 2005

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INTERNATIONAL SEARCH REPORT

International application No.
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Box 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 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 fee, this Authority did not invite payment of any additional fee.
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.:

1-11-----

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ 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: 1-11

heater product comprising a first and a second cavity with a specific first and second part of a heater composition disposed within and a removable barrier between these cavities.

2. claims: 12-21

heater product comprising an outer pouch and an inner pouch within the outer pouch cavity, a pull strip and a reinforcing strip; a first and second part of an unspecified heater composition disposed within the outer pouch cavity and the inner cavity.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/014691

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 4 057 047 A (GOSSETT ET AL) 8 November 1977 (1977-11-08) claims; figures -----	1-11
A	US 4 559 921 A (BENMUSSA ET AL) 24 December 1985 (1985-12-24) column 3, line 35 - column 4, line 20 -----	1
Y	US 4 917 119 A (POTTER ET AL) 17 April 1990 (1990-04-17) column 7, line 4 - line 68 claims 12,13,15,18; example 1 -----	1-11
A	US 1 892 389 A (EVANS RALPH L) 27 December 1932 (1932-12-27) the whole document -----	1
A	US 6 248 257 B1 (BELL WILLIAM L ET AL) 19 June 2001 (2001-06-19) example 4 -----	1
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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