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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/448,310	06/16/2009	Dorothy M. Hartman		9407

7590 05/02/2012
Dorothy M. Hartman
#W105
2200 Benjamin Franklin Parkway
Philadelphia, PA 19130-3830

EXAMINER

PATEL, PANKTI R

ART UNIT	PAPER NUMBER
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1776

MAIL DATE	DELIVERY MODE
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05/02/2012

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 12/448,310	Applicant(s) HARTMAN, DOROTHY M.	
	Examiner PANKTI PATEL	Art Unit 1776	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 16 June 2009.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) Claim(s) 1-10 is/are pending in the application.
- 5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) _____ is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) 1-10 are subject to restriction and/or election requirement.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, drawn to a method.

Group II, claim(s) 2, drawn to method.

Group III, claim(s) 3, drawn to method.

Group IV, claim(s) 4, drawn to method.

Group V, claim(s) 5, drawn to method.

Group VI, claim(s) 6, drawn to method.

Group VII, claim(s) 7, drawn to method.

Group VIII, claim(s) 8, drawn to method.

Group IX, claim(s) 9, drawn to method.

Group X, claim(s) 10, drawn to method.

2. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Each of the inventions requires a special technical feature that is not shared by other group. The method of Group I includes a step for using oxidation-reduction chemistry to scrub carbon dioxide, which is a general step not shared by

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Groups II-X. The method of Group II includes a step for using chemical formulas for identifying compounds to convert to an aerosol solution, which is a general step not shared by Groups I and III-X. The method of Group III include a step of identifying substances in a controlled environment such as a laboratory or biosphere, which is a step not shared by Groups I-II and IV-X. The method of Group IV includes a step of testing and analyzing atmospheric samples, which is a step not shared by Groups I-III and V-X. The method of Group V includes a step of using molarity to determine concentrations of substances, a step not shared by Groups I-IV and VI-X. The method of Group VI includes a step of using sprayers, crop dusters, or other special spraying planes, which is a step not shared by Groups I-V and VII-X. The method of Group VII includes a step of producing aerosols from aqueous solutions, a step not shared by Groups I-VI and VIII-X. The method of Group VIII includes a step of methodically testing results in a field or open area, which is a step not shared by Groups I-VII and IX-X. The method of Group IX includes a step of testing whether one or more bases may prove feasible, a step not shared by Groups I-VIII and X. The method of Group X includes a step of using titration to scrub large concentrations of carbon dioxide, nitric oxide, or sulfur oxide, which is a step not shared by Groups I-IX.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PANKTI PATEL whose telephone number is (571)270-1554.

The examiner can normally be reached on M-Th 9:30 am - 5 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. P./
Examiner, Art Unit 1776

/Duane Smith/
Supervisory Patent Examiner, Art Unit 1776