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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/854,213	09/12/2007	Robert J. Ledoux	PSD-00102	4458
25181 FOLEY HOAG	7590 01/26/200 LLP	EXAMINER		
PATENT GRO	UP, WORLD TRADE	THOMAS, COURTNEY D		
155 SEAPORT BOSTON, MA			ART UNIT	PAPER NUMBER
			2882	
		MAIL DATE	DELIVERY MODE	
			01/26/2009	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.	Applicant(s)	Applicant(s)			
			11/854,213	LEDOUX ET AL.	LEDOUX ET AL.			
		Ī	Examiner	Art Unit				
			Courtney Thomas	2882				
Period fo	The MAILING DATE of this commui r Reply	nication appea	ars on the cover sheet	t with the correspondence a	ddress			
WHIC - Exten after: - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE IN sions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum is e to reply within the set or extended period for reply eply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(munication. tatutory period will y will, by statute, ca	E OF THIS COMMU a). In no event, however, may apply and will expire SIX (6) Notes the application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this a ABANDONED (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) file	ed on 17 Sep	tember 2007					
•	•		ction is non-final.					
—	Since this application is in condition	<i>′</i> —		atters, prosecution as to th	ne merits is			
-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) <u>1-11</u> is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) 5 is/are allowed.							
·	☑ Claim(s) <u>1-4 and 6-11</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restri	ction and/or e	election requirement.					
Applicati	on Papers							
9)□ -	The specification is objected to by th	ne Examiner						
•	•		e: a) 🛛 accepted or b	o)☐ objected to by the Exa	aminer			
-	10)☑ The drawing(s) filed on <u>12 September 2007</u> 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).							
					CER 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
	_	for foreign n	riority under 35 H.S.C	: 8 119(a)-(d) or (f)				
·	2) 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:							
α <i>)</i> L	- <i>'</i> - <i>'</i> -	documents h	nave heen received					
	2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage							
		•		en received in this Nationa	ii Stage			
* 0	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)							
	e of References Cited (PTO-892)			w Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application								
	· No(s)/Mail Date <u>12/31/07</u> .		6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-4 and 6-11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. In particular, method claims 1, 6 and 8 are directed to processes that are neither **a**) tied to another statutory class (such as a particular apparatus) or **b**) transform underlying subject matter (such as an article or materials) to a different sate or thing. Since neither of these conditions are met by the aforementioned claims, Examiner concludes that the methods are not patent eligible processes under 101 and are treated as directed to non-statutory subject matter (see also MPEP 2106 IV-B). Additionally, independent claims 1, 6 and 8 recite a step of "generating a signal ..." Examiner is of the opinion that the generation of a transitory feature such as a signal, does not satisfy a statutory category and therefore renders claims 1, 6 and 8 both indefinite and non-statutory (see MPEP 2106 IV-B). Claims 2-4, 7 and 9-11 are similarly rejected due to their dependency on claims 1, 6 and 8.

Allowable Subject Matter

2. Claim 5 is allowed.

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3. The following is a statement of reasons for the indication of allowable

subject matter:

4. **As per claim 5**, the examiner found no reference in the prior art that

disclosed or made obvious a system for analyzing material in a voxel of a target

comprising: a processor configured to determine, using an energy spectrum, an

average atomic number in a voxel and is further configured to determine a

mass in the target voxel using incident flux, average atomic number, energy

spectrum and predetermined values of a scattering kernel and all limitations

recited in independent claim 5.

Conclusion

Any inquiry concerning this communication or earlier communications

from the examiner should be directed to Courtney Thomas whose telephone

number is (571) 272-2496. The examiner can normally be reached on M - F (9

am - 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Ed Glick can be reached on (571) 272 2490. 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.

/Courtney Thomas/

Courtney Thomas Primary Examiner Art Unit 2882