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NOTICE OF ALLOWANCE AND FEE(S) DUE

23701

7590

06/11/2009

RAUSCHENBACH PATENT LAW GROUP, LLC P.O. BOX 387 BEDFORD, MA 01730 EXAMINER

MCDONALD, RODNEY GLENN

ART UNIT PAPER NUMBER

1795

DATE MAILED: 06/11/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/897,257	07/22/2004	Roman Chistyakov	ZON-002CN	1462

TITLE OF INVENTION: METHODS AND APPARATUS FOR GENERATING HIGH-DENSITY PLASMA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	09/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

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23701 RAUSCHENB P.O. BOX 387 BEDFORD, MA	7590 06/11 BACH PATENT L A 01730	C I he	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	YENTOR ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.
10/897,257 TITLE OF INVENTION	07/22/2004 I: METHODS AND APF	ARATUS FOR GENER	Roman Chistyakov ATING HIGH-DENSITY	PLASMA		ZON-002CN	1462
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nonprovisional	YES	\$755	\$300	\$0		\$1055	09/11/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MCDONALD, R	ODNEY GLENN	1795	204-192120	J			
	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach	nge of Correspondence	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a	a single firm (having as a member a new or agent) and the names of up to ent attorneys or agents. If no name is			
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	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no long	-			
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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.





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RAUSCHENBA	CH PATENT LAW	MCDONALD, RODNEY GLENN			
P.O. BOX 387				PAPER NUMBER	
BEDFORD, MA 0	1730		1795		
			DATE MAILED: 06/11/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 748 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 748 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.



	Application No.	Applicant(s)			
	10/897,257	CHISTYAKOV, ROMAN			
Notice of Allowability	Examiner	Art Unit			
	Rodney G. McDonald	1795			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. 🔀 This communication is responsive to <u>After Final Amendment</u>	<u>nt filed 5-21-09</u> .				
2. 🔀 The allowed claim(s) is/are <u>45-77</u> .					
3. 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 the: 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)). * Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of 					
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e			
/Rodney G. McDonald/ Primary Examiner, Art Unit 1795					



Application/Control Number: 10/897,257 Page 2

Art Unit: 1795

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 45-57 are allowable over the prior art of record because the prior art of record does not teach an ionization source that generates a weakly-ionized plasma from a feed gas contained in a chamber, the weakly-ionized plasma substantially eliminating the probability of developing an electrical breakdown condition in the chamber; and a power supply that supplies power to the weakly-ionized plasma though an electrical pulse that is applied across the weakly-ionized plasma, the electrical pulse having at least one of a magnitude and a rise-time that is sufficient to transform the weakly-ionized plasma to a strongly-ionized plasma without developing an electrical breakdown condition in the chamber.

Claims 58-69 are allowable over the prior art of record because the prior art of record does not teach ionizing a feed gas in a chamber to form a weakly-ionized plasma that substantially eliminates the probability of developing an electrical breakdown condition in the chamber; and supplying an electrical pulse across the weakly-ionized plasma that excites atoms in the weakly-ionized plasma, thereby generating a strongly-ionized plasma without developing an electrical breakdown condition in the chamber.

Claims 70-77 are allowable over the prior art of record because the prior art of record does not teach an ionization source that generates a weakly-ionized plasma proximate to the cathode, the weakly-ionized plasma substantially eliminating the probability of developing an electrical breakdown condition between the anode and the cathode; and a power supply that is electrically coupled to the anode and to the



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