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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,629	11/04/2002	Roman Chistyakov	ZON-002	4225
23701 7590 10/07/2003 RAUSCHENBACH PATENT LAW GROUP, LLC P.O. BOX 387			EXAMINER	
			LEE, WILSON	
BEDFORD, MA 01730			ART UNIT	PAPER NUMBER
·			2821	· · ·
			DATE MAILED: 10/07/200	3

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

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-		Application No.	Applicant(s)
Office Action Summary		10/065,629	CHISTYAKOV, ROMAN
		Examiner	Art Unit
		Wilson Lee	2821
Period fo	The MAILING DATE of this communication	on appears on the cover sheet w	ith the correspondence address
A SHO THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT sions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply specified above, the maximum statutory e to reply within the set or extended period for reply will, by eply received by the Office later than three months after the d patent term adjustment. See 37 CFR 1.704(b). Responsive to communication(s) filed o	ION. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become Al e mailing date of this communication, even if	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
2a)	This action is FINAL . 2b)	This action is non-final.	
3) <u></u> Dispositi	Since this application is in condition for closed in accordance with the practice u on of Claims		
4)⊠	Claim(s) 1-44 is/are pending in the appli	ication.	
	4a) Of the above claim(s) is/are wi	ithdrawn from consideration.	
5)	Claim(s) is/are allowed.		
6)🖂	Claim(s) 1-24,26,31-33,35-37,41,43 and	44 is/are rejected.	
7)🖂	Claim(s) 25,27-30,34,38-40 and 42 is/are	e objected to.	
	Claim(s) are subject to restriction on Papers	and/or election requirement.	
9)[] -	The specification is objected to by the Ex	aminer.	
10)🖂 1	The drawing(s) filed on <u>04 November 200</u>	<u>)2</u> is/are: a) □ accepted or b) ○ c	bjected to by the Examiner.
	Applicant may not request that any objectio	n to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).
11) 🗌 1	The proposed drawing correction filed on	is: a) approved b)	disapproved by the Examiner.
	If approved, corrected drawings are require	d in reply to this Office action.	
12) 🗌 1	The oath or declaration is objected to by t	the Examiner.	
Pri rity u	nder 35 U.S.C. §§ 119 and 120		
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 doct	uments have been received.	
	2. Certified copies of the priority doct	uments have been received in A	Application No
* S	3. Copies of the certified copies of th application from the Internation see the attached detailed Office action for	nal Bureau (PCT Rule 17.2(a)).	
14) 🗌 A	cknowledgment is made of a claim for do	omestic priority under 35 U.S.C.	§ 119(e) (to a provisional application
) The translation of the foreign langua Acknowledgment is made of a claim for de		
Attachmen		_	
	e of References Cited (PTO-892)	4) 🚺 Interview	Summary (PTO-413) Paper No(s)

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show

every feature of the invention specified in the claims. Therefore, the second volume of

feed gas, third volume of feed gas, a means for exchanging the strongly-ionized

plasma, a gas exchange means for exchanging the weakly-ionized plasma must be

shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings

will not be held in abeyance.

Claim Rejections – 35 U.S.C. 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-21, 43 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In regard to Claims 1, 3, 10, 12 and 43, a second volume of feed gas, a third volume of feed gas, a means for exchanging the strongly-ionized plasma and a means for exchanging weakly-ionized plasma have not been disclosed in the specification to enable one skilled in the art to make or use the invention. Applicant is respectfully

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requested to point out the above limitations shown in the specification if examiner

overlooked the disclosure.

Claims 2-9 and 11-21 are vague by virtue of their dependency on claims 1 and

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Claim Rejections – 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-11, 19, 20, 22-24, 26, 31-33, 35-37, 41, 43, 44, as best

understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Koloc

(5,041,760).

In regard to Claim 1, Koloc discloses an apparatus for generating a

strongly-ionized plasma, the apparatus comprising:

- an ionization source (18 in figure 1) that generates a weakly-ionized plasma (plasma at the pre-ionization region 62 in figure 8) from a volume of feed gas (from gas source 88 in figure 9);
- a power supply (46) that applies an electrical pulse across the weakly-ionized plasma to generate the strongly-ionized plasma (See Col. 5, lines 1-37, Col. 13, lines 39-59); and
- a means (power supply 80 in figure 9 or high voltage source 16 in figure 1) for exchanging the strongly-ionized plasma with a second volume of feed gas

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(from gas source 88 in figure 9) while applying the electrical pulse (intensive pulsed electric field to produce a high stressed voltage condition. See Col. 14, lines 27-56) across the second volume of feed gas to generate an additional strongly-ionized plasma.

In regard to Claim 2, Koloc discloses that the power supply (80 or 16) applies the electrical pulse across the weakly-ionized plasma to excite atoms in the weakly-ionized plasma and to generate secondary electrons, the secondary electrons inherently ionizing the excited atoms, thereby creating the strongly-ionized plasma (See Col. 5, line 53 to Col. 6, line 6.

In regard to Claims 4 and 5, Koloc discloses the power supply inherently generates a constant power and a constant voltage since the power source must constantly generate power or voltage to the ion source in order to generate plasma.

In regard to Claim 6, Koloc discloses that the ionization source is an X-ray source, an electron beam source, or an ion beam source (See Col. 7, lines 3-11).

In regard to Claim 7, Koloc discloses that a magnet (36) that is positioned to generate a magnetic field (flux 34) proximate to the weakly-ionized plasma, the magnetic field trapping electrons in the weakly-ionized plasma.

In regard to Claim 8, Koloc discloses that the magnet comprises an electro-magnet since it receives electricity or plasma from electrode 76 and plasma gun (70) (See Figure 9).

In regard to Claim 9, Koloc discloses the magnet is movable since it is not physically connected to anything shown in figure 9.

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