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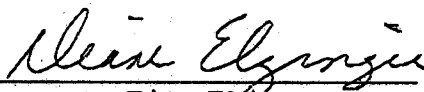
**OFFICIAL COMMUNICATION
FOR THE PERSONAL ATTENTION OF
EXAMINER L. SCHEINER**

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following Amendment Transmittal and Amendment, in re Application of Daniel L. Flamm, Serial No. 08/866,040, filed May 30, 1997, for PROCESS DEPENDING ON PLASMA DISCHARGES SUSTAINED BY INDUCTIVE COUPLING is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

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Dated: August 31, 1999


Diane Elzingre

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PA 3018723 v1


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PA 184130 v1

Filed: May 30, 1997

GROUP 1800

Group Art Unit: 1648

On August 31, 1999

For: PROCESS DEPENDING ON PLASMA DISCHARGES
SUSTAINED BY INDUCTIVE COUPLING

TOWNSEND and TOWNSEND and CREW LLP

THE ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

By: Richard T. Ogawa

Sir:

Transmitted herewith is an amendment in the above-identified application.

- Enclosed is a petition to extend time to respond.
- Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement previously submitted.
- A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.
- Postcard

If any extension of time is needed, then this response should be considered a petition therefor.
The filing fee has been calculated as shown below:

	(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN SMALL ENTITY		
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDIT. FEE	OR	RATE	ADDIT. FEE
TOTAL	* 7	MINUS	** 32	- 0	0x \$9.00 =	\$0.00	OR	x \$18.00 =	
INDEP.	* 1	MINUS	*** 6	- 0	0x \$39.00 =	\$0.00	OR	x \$78.00 =	
[] FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+ \$130.00 =		OR	+ \$260.00 =	
					TOTAL ADDIT. FEE	\$0.00	OR	TOTAL	

- * If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.
- ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
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2 extra copies of this sheet are enclosed.

TOWNSEND and TOWNSEND and CREW LLP

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By W. Elmer

PATENT

RECEIVED Attorney Docket No. 16655-000311

AUG 3 1 1999

GROUP 1800

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Daniel L. Flamm

Application No.: 08/866,040

Filed: May 30, 1997

For: PROCESS DEPENDING ON
PLASMA DISCHARGES
SUSTAINED BY INDUCTIVE
COUPLING

Examiner: Scheiner, L.

Art Unit: 1648

AMENDMENT UNDER 37 CFR §1.116

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sirs:

In response to the Final Office Action mailed June 22, 1999, please amend the above-cited application as follows.

IN THE CLAIMS:

Please amend claim 1, add claim 33, and cancel claims 7-32 as follows. For the convenience of the Examiner, all claims subject to examination are shown, even if not being amended.

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wherein said inductive coupling structure is adjusted using a wave adjustment circuit, said wave adjustment circuit adjusting the phase portion and the anti-phase portion of the capacitively coupled currents.

2. The process of claim 1 wherein the wave adjustment circuit selectively adjusts a frequency of an rf power supply.

3. The process of claim 1 wherein the high frequency field is adjusted using a variable frequency power supply.

4. The process of claim 1 wherein the wave adjustment circuit comprises a transmission line.

5. The process of claim 1 wherein said process is provided in a chamber.

6. The process of claim 5 wherein the chamber is provided for a process selected from etching, deposition, sputtering, or implantation.

~~7-32. (Cancelled)~~

⁷
~~33. (New) The process of claim 1 wherein said inductive coupling structure provides a wave multiple selected from a one-sixteenth wave, a one-eighth-wave, a quarter-wave, a half-wave, a three-quarter wave, and a full-wave.~~

REMARKS

Applicant would like to thank Examiner Scheiner for the time for reviewing the present application.

40

Claims 1-6 were rejected under 35 U.S.C. §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. In particular, the Examiner indicated that the "inductive coupling structure" terms appeared to be new matter. Applicant has carefully reviewed the present specification and would like to point out that support for the inductive coupling structure is found throughout the specification, and more particularly at page 9 lines 17-20. Further support for the inductive coupling structure can be found in the inductive applicator, which has been described in, for example, Fig. 1 and related description. The Examiner has also noted that the terms "phase portion and anti-phase portion" appeared to be new matter. These terms are described throughout the specification in relation to voltages, since electrical current is fundamentally related to voltage by an impedance. More particularly, support can be found at, for example, V_{coll} at Fig. 5B, which illustrates a phase and anti-phase relationship of a waveform. Accordingly, claims 1-6 are patentable under 35 U.S.C. §112, first paragraph.

Applicant has also amended claim 1 with the term "plasma" for clarification purposes, as suggested by the Examiner. This amendment is not intended to unduly limit such claim in any manner. Furthermore, Applicant has added claim 33 also for clarification purposes, as suggested by the Examiner. Support can be found for claim 33 throughout the specification and more particularly at page 14 lines 16-30. Accordingly, all pending claims are believed allowable in view of the cited references.

CONCLUSION

Therefore, in view of the remarks above, Applicant respectfully requests that the rejection be removed, that claims 1-6 and 33 be allowed, and the case passed to issue. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

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