1 2 3 4 5 6 7 8 9	IRELL & MANELLA LLP Michael R. Fleming (Reg. No. 67,92 Samuel K. Lu (Reg. No. 40,707) 1800 Avenue of the Stars, Suite 900 Los Angeles, California 90067-4270 Telephone: (310) 277-1010 Facsimile: (310) 203-7199 Attorneys for Petitioner LAM Research Corp. UNITED STATES F BEFORE THE PAT	33)) 6 PATENT A FENT TRI	AND TRADEMARK OFFICE AL AND APPEAL BOARD
10			
11	LAM RESEARCH CORP.)	U.S. Patent No. 6.017.221
12	Petitioner,))) Issued: January 5, 2000) Named Inventor: Daniel L. Flamm
13	V.))	Title: Process Depending On Plasma Discharges Sustained By Inductive
14	Daniel L. Flamm,) Coupling	
15	Patent Owner.		
16	·)	
17)	
18)	
19	DECLARATION OF MIYOKO TSUBAMOTO		
20			
21			
22			
23			
24			
25			
26			
27			
28	44925 1		
DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u> .			

I, Miyoko Tsubamoto, declare as follows:

I am employed as a communications specialist and senior designer print/web
 at the Electrical Engineering and Computer Sciences ("EECS") department of the
 University of California at Berkeley ("UCB"). If called upon as a witness, I could
 competently testify to the truth of each statement herein.

6 2. Attached as Exhibit A hereto is is a true and correct copy of the following7 article:

- Michael A. Lieberman and Richard A. Gottscho, *Design of High-Density Plasma Sources for Materials Processing*, UNIVERSITY OF CALIFORNIA,
 BERKELEY TECHNICAL REPORT NO. UCB/ERL M93/3 (JANUARY 11, 1993).
- 3. The technical report in Exhibit A exists in the UCB EECS database of
 technical reports and is publicly available through UCB library services.

4. The article's catalog number, M93/3, indicates that the article was published
and made publicly available by UCB library services as a technical report in 1993.

15 5. The date of January 11, 1993 shown on the cover of the report shows the
16 date of the article that was made publicly available in 1993.

Executed August 10, 2015, at Berkeley, California.

18 I declare under penalty of perjury under the laws of the United States of America19 that the foregoing is true and correct to the best of my knowledge.

21 22 23 24 25

26

27

28

17

20

1

Miyoko Tsubamoto Senior Designer Print/Web 231 Cory Hall University of California, Berkeley Berkeley, CA 94720 (510) 643-6685 miyoko@berkeley.edu

Find authenticated court documents without watermarks at docketalarm.com.



Find authenticated court documents without watermarks at docketalarm.com.

Α

DESIGN OF HIGH DENSITY PLASMA SOURCES FOR MATERIALS PROCESSING

by

Michael A. Lieberman and Richard A. Gottscho

Memorandum No. UCB/ERL M93/3

11 January 1993

ELECTRONICS RESEARCH LABORATORY

College of Engineering University of California, Berkeley 94720

DOCKET

DESIGN OF HIGH DENSITY PLASMA SOURCES FOR MATERIALS PROCESSING

Michael A. Lieberman Department of Electrical Engineering and Computer Sciences University of California Berkeley, CA 94720

and

Richard A. Gottscho AT&T Bell Laboratories Murray Hill, NJ 07974

ABSTRACT

In this review article, we focus on recent advances in plasma source technology for materials processing applications. The motivation behind new source development is discussed along with the limitations of conventional radio frequency diode systems. Then the fundamental principles underlying electron heating in electron cyclotron resonance, helicon wave, inductively coupled, helical resonator, and surface wave plasmas are discussed with some attention to design issues. The transport of ions to device wafers and its influence on etching anisotrophy is discussed for all sources. Similarly, we examine the benefits of using high density sources for minimizing plasma process induced damage and discuss in particular, the effects of plasma uniformity on charging damage.

DOCKE

Find authenticated court documents without watermarks at docketalarm.com.

DOCKET



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

