

DOCKET NO.: 34789.98

Filed on behalf of: Fujitsu Semiconductor Limited and Fujitsu Semiconductor
America, Inc.

By: David M. O'Dell, Reg. No. 42,044
David L. McCombs, Reg. No. 32,271

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

FUJITSU SEMICONDUCTOR LIMITED AND
FUJITSU SEMICONDUCTOR AMERICA, INC..
Petitioner

v.

ZOND INC.
Patent Owner

Case No. _____

**PETITION FOR *INTER PARTES* REVIEW OF
U.S. PATENT NO. 6,805,779
CHALLENGING CLAIMS 7, 9, 20, 21, 38, AND 44
UNDER 35 U.S.C. § 312 AND 37 C.F.R. § 42.104**

TABLE OF CONTENTS

I.	Mandatory Notices.....	- 1 -
A.	Real Party-in-Interest	- 1 -
B.	Related Matters.....	- 1 -
C.	Counsel	- 1 -
D.	Service Information	- 2 -
II.	Certification of Grounds for Standing	- 2 -
III.	Overview of Challenge and Relief Requested	- 2 -
A.	Prior Art Patents and Printed Publications	- 2 -
B.	Grounds for Challenge	- 3 -
IV.	Brief Description of Technology	- 4 -
A.	Plasma.....	- 4 -
B.	Ions, excited atoms, and metastable atoms	- 4 -
V.	Overview of the ‘779 Patent	- 6 -
A.	Summary of Alleged Invention of the ‘779 Patent	- 6 -
B.	Prosecution History.....	- 9 -
VI.	Overview of the Primary Prior Art References	- 11 -
A.	Summary of the Prior Art	- 11 -
B.	Overview of Mozgrin.....	- 11 -
C.	Overview of Kudryavtsev	- 12 -
D.	Overview of Iwamura	- 13 -
E.	Overview of Pinsley and Angelbeck	- 14 -
VII.	Claim Construction.....	- 15 -
A.	“multi-step ionization”	- 15 -
VIII.	Specific Grounds for Petition	- 16 -
A.	Ground I: Claims 9, 21 and 44 would have been obvious in view of Mozgrin, Kudryavtsev, Pinsley and Gruber.....	- 16 -
1.	Independent claim 1	- 16 -
2.	Independent claim 18	- 30 -

3.	Dependent claims 9 and 21.....	- 32 -
4.	Independent claim 44.....	- 34 -
B.	Ground II: Claims 7 and 20 would have been obvious in view of Mozgrin, Kudryavtsev, Pinsley, and Wells.....	- 36 -
C.	Ground III: Claim 9, 21 and 44 would have been obvious over Iwamura, Angelbeck and Gruber.....	- 38 -
1.	Independent claim 1.....	- 38 -
2.	Independent claim 18.....	- 49 -
3.	Dependent claims 9 and 21.....	- 51 -
4.	Independent claim 44.....	- 53 -
D.	Ground IV: Claims 7 and 20 would have been obvious in view of the combination of Iwamura, Angelbeck, and Wells.....	- 55 -
E.	Ground V: Claim 38 would have been obvious in view of Mozgrin, Kudryavtsev, Pinsley, and Iwamura.....	- 57 -
F.	Ground VI: Claim 38 would have been obvious in view of the Iwamura and Angelbeck.....	- 59 -
IX.	Conclusion.....	- 60 -

TABLE OF AUTHORITIES

	Pages
FEDERAL STATUTES	
35 U.S.C. § 312.....	Cover Page
REGULATIONS	
37 C.F.R. § 42.22.....	2
37 C.F.R. § 42.100.....	14, 15
37 C.F.R. § 42.104.....	Cover page, 2, 16
CASE LAW	
<i>In re ICON Health & Fitness, Inc.</i> , 496 F.3d 1374, 1379 (Fed. Cir. 2007).....	15

I. MANDATORY NOTICES

A. Real Party-in-Interest

Fujitsu Semiconductor Limited and Fujitsu Semiconductor America, Inc. are the real parties-in-interest (“Petitioner”).

B. Related Matters

Zond has asserted U.S. Patent No. 6,805,779 (“779 Patent”) (Ex. 1401) against numerous parties in the District of Massachusetts, 1:13-cv-11570-RGS (*Zond v. Intel*); 1:13-cv-11577-DPW (*Zond v. AMD, Inc., et al*); 1:13-cv-11581-DJC (*Zond v. Toshiba Am. Elec. Comp. Inc.*); 1:13-cv-11591-RGS (*Zond v. SK Hynix, Inc.*); 1:13-cv-11625-NMG (*Zond v. Renesas Elec. Corp.*) ; 1:13-cv-11634-WGY (*Zond v. Fujitsu, et al.*); and 1:13-cv-11567-DJC (*Zond v. Gillette, Co.*). Petitioner has also filed IPR 2014-00598 and IPR 2014-00686 for other claims of the ‘779 Patent.

The below-listed claims of the ‘142 Patent are presently the subject of a substantially identical petition for *inter partes* review styled *Intel Corporation v. Zond, Inc.*, which was filed May 16, 2014 and assigned Case No. IPR2014-00765. Petitioner will seek joinder with that *inter partes* review under 35 U.S.C. § 315(c), 37 C.F.R. §§ 42.22 and 42.122(b).

C. Counsel

Lead Counsel: David M. O’Dell (Registration No. 42,044)

Backup Counsel: David L. McCombs (Registration No. 32,271)

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.