DOCKET NO.: 52055.2

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

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 6,805,779 CHALLENGING CLAIMS 16, 28, 41, 42, 45 AND 46 UNDER 35 U.S.C. § 312 AND 37 C.F.R. § 42.104



TABLE OF CONTENTS

1.	Man	datory Notices1 -				
	A.	Real Party-in-Interest 1 -				
	B.	Related Matters 1 -				
	C.	Counsel 2 -				
	D.	Service Information 2 -				
II.	Certi	ertification of Grounds for Standing 2 -				
III.	Overview of Challenge and Relief Requested 2 -					
	A.	Prior Art Patents and Printed Publications 3 -				
	B.	Grounds for Challenge 3 -				
IV.	Brief Description of Technology 4 -					
	A.	Plasma 4 -				
	B.	Ions, excited atoms, and metastable atoms 5 -				
V.	Overview of the '779 Patent 7 -					
	A.	Summary of Alleged Invention of the '779 Patent 7 -				
	B.	Prosecution History 10 -				
VI.	Overview of the Primary Prior Art References 12 -					
	A.	Summary of the Prior Art 12 -				
	B.	Overview of Mozgrin 12 -				
	C.	Overview of Kudryavtsev 13 -				
	D.	Overview of Iwamura 14 -				
	E.	Overview of Pinsley and Angelbeck 15 -				
VII.	Claim Construction - 16 -					
	A.	"multi-step ionization" (claims 16, 28, 41, 42, 45 and 46) 17 -				
	В.	"means for generating a magnetic field proximate to a volume of ground state atoms to substantially trap electrons proximate to the volume of ground state atoms" (claims 41 and 42) 17 -				
	C.	"means for generating a volume of metastable atoms from the volume of ground state atoms" (claims 41 and 42) 18 -				



U.S. PATENT 6,805,779 Petition for *Inter Partes* Review

	D.	"means for raising an energy of the metastable atoms so that at least a portion of the volume of metastable atoms is ionized" (claims 41 and 42)- 1			
	E.	"means for trapping electrons and ions in the volume of metastable atoms" (claim 42) 19 -			
VIII.	Specific Grounds for Petition 19 -				
	A.	Ground I: Claim 41 would have been obvious in view of Mozgrin, Kudryavtsev, and Pinsley 19 -			
		1.	Independent claim 41 20 -		
	B.		nd II: Claims 16, 28, 42, 45 and 46 would have been obvious in of Mozgrin, Kudryavtsev, Pinsley and Iwamura 32 -		
		1.	Dependent claim 42 32 -		
		2.	Independent claims 1 and 45 34 -		
		3.	Independent claim 18 39 -		
		4.	Dependent claims 16 and 28 40 -		
		5.	Independent claim 46 41 -		
	C.		nd III: Claims 16, 28, 41, 42, and 45 would have been obvious [wamura and Angelbeck 42 -		
		1.	Independent claim 41 42 -		
		2.	Independent claims 1 and 45 53 -		
		3.	Independent claim 18 57 -		
		4.	Dependent claims 16, 28 and 42 58 -		
	D.	Grou	nd IV: Claims 46 is anticipated by Iwamura 59 -		
		1.	Independent claim 46 59 -		
IV	Const	lucion	60		

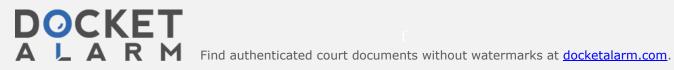


TABLE OF AUTHORITIES

	Page(s)
FEDERAL STATUTES	
35 U.S.C. § 312	Cover Page
REGULATIONS	
37 C.F.R. § 42.22	2
37 C.F.R. § 42.100	
37 C.F.R. § 42.104	Cover Page, 2, 19
CASE LAW	
In re ICON Health & Fitness Inc. 496 F 3d 1374	1379 (Fed. Cir. 2007) 16



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. 1301) 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 filed Petition Nos. IPR2014-00598, IPR2014-00686, and IPR2014-00765 for other claims of the 779 Patent; and is also filing additional Petitions for *Inter Partes* review in this and several patents with the same named inventor as 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 27, 2014 and assigned Case No. IPR2014-00820.

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).



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.

