

UNITED STATES PATENT AND TRADEMARK OFFICE

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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RENESAS ELECTRONICS CORPORATION, RENESAS ELECTRONICS  
AMERICA, INC., ADVANCED MICRO DEVICES, INC.,  
GLOBALFOUNDRIES U.S., INC., GLOBALFOUNDRIES DRESDEN  
MODULE ONE LLC & CO. KG, GLOBALFOUNDRIES DRESDEN MODULE  
TWO LLC & CO. KG, TOSHIBA AMERICA ELECTRONIC COMPONENTS,  
INC., TOSHIBA AMERICA INC., TOSHIBA AMERICA INFORMATION  
SYSTEMS, INC., AND TOSHIBA CORPORATION  
Petitioner

v.

ZOND, INC.  
Patent Owner

Case No. IPR2014-01046

U.S. PATENT NO. 6,853,142

CLAIMS 21, 24, 26-28, 31, 32, 37 AND 38

Title: METHODS AND APPARATUS FOR  
GENERATING HIGH-DENSITY PLASMA

**PETITIONER'S REVISED MOTION FOR JOINDER UNDER 35 U.S.C.  
§315(c) AND 37 C.F.R. § 42.22 AND § 42.122(b)**

## INTRODUCTION

Renesas Electronics Corporation, Renesas Electronics America, Inc., Advanced Micro Devices, Inc., GLOBALFOUNDRIES U.S., Inc., GLOBALFOUNDRIES Dresden Module One LLC & Co. KG, GLOBALFOUNDRIES Dresden Module Two LLC & Co. KG, Toshiba America Electronic Components, Inc., Toshiba America Inc., Toshiba America Information Systems, Inc., and Toshiba Corporation (collectively, "Petitioner") filed the present petition for *inter partes* review, IPR2014-01046 (the "Joint IPR") and hereby move for joinder of the Joint IPR with IPR2014-00819, filed by Taiwan Semiconductor Manufacturing Company (the "TSMC IPR"). The Joint IPR is identical to the TSMC IPR in all substantive respects, includes identical exhibits, and relies upon the same expert declarant. Fujitsu Semiconductor Limited and Fujitsu Semiconductor America, Inc. (collectively "Fujitsu"), and The Gillette Company and Proctor & Gamble, Inc. (collectively, "Gillette") have filed petitions identical to the TSMC IPR and have likewise moved for joinder with the TSMC IPR. TSMC, Fujitsu and Gillette do not oppose this motion. Zond declined to take a position at this time.

## BACKGROUND AND RELATED PROCEEDINGS

The Joint IPR and TSMC IPR are among a family of *inter partes* review proceedings relating to seven patents that are being asserted by Zond, Inc.

("Zond") against numerous defendants in the District of Massachusetts: 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-11625-NMG (*Zond v. Renesas Elec. Corp.*); 1:13-cv-11634-WGY (*Zond v. Fujitsu and TSMC*); and 1:13-cv-11567-DJC (*Zond v. Gillette, Co.*).

The following table summarizes the dates on which a first complaint was served on Petitioner.

<b>Defendant Group</b>	<b>Case</b>	<b>Service Date of First Complaint</b>
AMD	<i>Zond v. AMD, Inc., et al.</i> , Case No. 1:13-cv-11577-DPW	July 2, 2013
GlobalFoundries	<i>Zond v. AMD, Inc., et al.</i> , Case No. 1:13-cv-11577-DPW	December 5, 2013
Renesas	<i>Zond v. Renesas Elec. Corp.</i> , Case No. 1:13-cv-11625-NMG	July 8, 2013
Toshiba	<i>Zond v. Toshiba Am. Elec. Comp. Inc.</i> , Case No. 1:13-cv-11581-DJC	July 3, 2013

Accordingly, all petitions for *inter partes* review that have been filed by defendants AMD, GlobalFoundries, Renesas, and Toshiba are timely as prescribed by 35 U.S.C. § 315(b).

On June 6, 2014, as clarified on July 22, 2014, in 11:13-cv-11577-DPW (*Zond v. AMD, Inc., et al.*), the Court entered an order to administratively stay the case pending conclusion of *inter partes* reviews.

Currently, the family of *inter partes* review proceedings relating to the seven Zond patents (the “Zond IPRs”) consists of the following proceedings initiated by TSMC and later by only the GlobalFoundries entities or jointly by AMD, GlobalFoundries, Renesas, and Toshiba:

Patent	TSMC IPRs		Joint IPRs		GlobalFoundries IPRs		Claims
	TSMC Ref	TSMC Filed	Joint Ref	Joint Filed	GF Ref	GF Filed	Claims Challenged
6,805,779	n/a	n/a	n/a	n/a	IPR2014-01073	06/30/14	1-4, 10-15, 17, 18, 24-27 and 29
	n/a	n/a	n/a	n/a	IPR2014-01076	06/30/14	5, 6, 8, 19, 22, 23, and 43
	IPR2014-00828	05/28/14	n/a	n/a	n/a	n/a	30-40
	n/a	n/a	IPR2014-01070	06/30/14	n/a	n/a	30-37, 39, 40
	IPR2014-00829	05/28/14	IPR2014-01072	06/30/14	n/a	n/a	16, 28, 41, 42, 45 and 46
	IPR2014-00917	06/09/14	IPR2014-01074	06/30/14	n/a	n/a	7, 9, 20, 21, 38, and 44
6,806,652	n/a	n/a	n/a	n/a	IPR2014-01089	07/01/14	35
	n/a	n/a	n/a	n/a	IPR2014-01088	07/01/14	1-17
	IPR2014-00861	05/30/14	IPR2014-01066	06/30/14	n/a	n/a	18-34
6,853,142	n/a	n/a	n/a	n/a	IPR2014-01098	07/01/14	40, 41
	IPR2014-00818	05/27/14	IPR2014-01075	06/30/14	n/a	n/a	1, 3-10, 12, 15, 17-20, 42
	IPR2014-00821	05/27/14	IPR2014-01057	06/27/14	n/a	n/a	2, 11, 13, 14, 16
	IPR2014-00819	05/27/14	IPR2014-01046	06/27/14	n/a	n/a	21, 24, 26-28, 31, 32, 37, 38
	IPR2014-00827	05/28/14	IPR2014-01063	06/30/14	n/a	n/a	22, 23, 25, 29, 30, 33-36, 39, 43

Petitioner's Revised Motion for Joinder (IPR2014-01046)

7,147,759	n/a	n/a	n/a	n/a	IPR2014-01086	06/30/14	1, 4, 10-12, 17, 18, 44
	n/a	n/a	n/a	n/a	IPR2014-01087	06/30/14	2, 3, 5-9, 13-16, 19, 41-43, 45
	n/a	n/a	n/a	n/a	IPR2014-01083	06/30/14	40
	IPR2014-00781	05/19/14	IPR2014-01047	06/27/14	n/a	n/a	20, 21, 34-36, 38, 39, 47, 49
	IPR2014-00782	05/19/14	IPR2014-01059	06/27/14	n/a	n/a	22-33, 37, 46, 48, 50
7,604,716	n/a	n/a	n/a	n/a	IPR2014-01099	07/01/14	1-11 and 33
	n/a	n/a	n/a	n/a	IPR2014-01100	07/01/14	12 and 13
	IPR2014-00807	05/23/14	IPR2014-01065	06/30/14	n/a	n/a	14-18 and 25-32
	IPR2014-00808	05/23/14	IPR2014-01067	06/30/14	n/a	n/a	19-24
7,808,184	IPR2014-00799	05/22/14	IPR2014-01042	06/27/14	n/a	n/a	1-5, 11-15
	IPR2014-00803	05/22/14	IPR2014-01061	06/30/14	n/a	n/a	6-10, 16-20
7,811,421	IPR2014-00800	05/22/14	IPR2014-01037	06/30/14	n/a	n/a	1, 2, 8, 10-13, 15-17, 22-25, 27-30, 33, 34, 38, 39, 42, 43, 46-48
	IPR2014-00802	05/22/14	IPR2014-01071	06/30/14	n/a	n/a	9, 14, 21, 26, 35, 37
	IPR2014-00805	05/23/14	IPR2014-01069	06/30/14	n/a	n/a	3-7, 18-20, 31, 32, 36, 40, 41, 44, 45

Similar to the above petitions, Fujitsu, and/or Gillette also filed petitions that address the same patent claims as the Joint IPR and the TSMC IPR. For the Joint IPR, Fujitsu's corresponding petition is IPR2014-00867; Gillette's corresponding petition is IPR2014-01014 .

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