

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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ADVANCED MICRO DEVICES, INC., RENESAS ELECTRONICS CORPORATION, RENASAS ELECTRONICS AMERICA, 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,  
Petitioners,

v.

ZOND, LLC,  
Patent Owner.

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Case IPR2014-01042  
Patent 7,808,184 B2

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Before KEVIN F. TURNER, DEBRA K. STEPHENS, JONI Y. CHANG, SUSAN L. C. MITCHELL, and JENNIFER M. MEYER,  
*Administrative Patent Judges.*

MITCHELL, *Administrative Patent Judge.*

DECISION  
Institution of *Inter Partes* Review  
37 C.F.R. § 42.108

## I. INTRODUCTION

Advanced Micro Devices, Inc., Renesas Electronics Corporation, Renesas Electronics America, 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, “AMD”) filed a Petition requesting an *inter partes* review of claims 1–5 and 11–15 of U.S. Patent No. 7,808,184 B2 (Ex. 1001, “the ’184 patent”). Paper 1 (“Pet.”). Zond, LLC (“Zond”), filed a Preliminary Response. Paper 7 (“Prelim. Resp.”).

We have jurisdiction under 35 U.S.C. § 314. The standard for instituting an *inter partes* review is set forth in 35 U.S.C. § 314(a), which provides:

**THRESHOLD.**—The Director may not authorize an *inter partes* review to be instituted unless the Director determines that the information presented in the petition filed under section 311 and any response filed under section 313 shows that there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.

Upon consideration of the Petition and Preliminary Response, we conclude that the information presented in the Petition demonstrates that there is a reasonable likelihood that AMD would prevail in challenging claims 1–5 and 11–15 as unpatentable under 35 U.S.C. § 103(a). Pursuant to 35 U.S.C. § 314, we hereby authorize an *inter partes* review to be instituted as to claims 1–5 and 11–15 of the ’184 patent.

*A. Related District Court Proceedings*

AMD indicates that the '184 patent was asserted against many parties in the United States District Court of Massachusetts. Pet. 1.

*B. Related Inter Partes Reviews*

The following Petitions for *inter partes* review also challenge the same claims based on the same grounds of unpatentability as those in *Intel Corp. v. Zond, LLC*, Case IPR2014-00455 and in the instant proceeding: *Taiwan Semiconductor Mfg. Co. v. Zond, LLC*, Case IPR2014-00799, Paper 1; *Fujitsu Semiconductor Ltd. v. Zond, LLC*, Case IPR2014-00855, Paper 1; and *Gillette Co. v. Zond, LLC*, Case IPR2014-00995, Paper 2.

In each of IPR2014-00455, IPR2014-00799, and IPR2014-00855, we instituted an *inter partes* review of claims 1–5 and 11–15 based on the ground that these claims are unpatentable under 35 U.S.C. § 103(a) as obvious over the combination of Wang and Kudryavtsev. IPR2014-00455 (Paper 12); IPR2014-00799 (Paper 10); IPR2014-00855 (Paper 11). In IPR2014-00455, we terminated the proceeding in light of the Written Settlement Agreement, made in connection with the termination of the proceeding in accordance with 35 U.S.C. § 317(b) and 37 C.F.R. § 42.74(b), between Intel and Zond. IPR2014-00455, Papers 14, 15; Ex. 1025.

AMD also filed a revised Motion for Joinder, seeking to join the instant proceeding with IPR2014-00799. Paper 9 (“Mot.”). In a separate decision, we grant AMD’s revised Motion for Joinder, joining the instant proceeding with IPR2014-00799, and terminating the instant proceeding.

*C. Prior Art Relied Upon*

AMD relies upon the following prior art references:

Wang                      US 6,413,382 B1                      July 2, 2002                      (Ex. 1005)

D.V. Mozgrin, et al., *High-Current Low-Pressure Quasi-Stationary Discharge in a Magnetic Field: Experimental Research*, 21 PLASMA PHYSICS REPORTS 400–409 (1995) (Ex. 1003) (“Mozgrin”).

A. A. Kudryavtsev and V.N. Skrebov, *Ionization Relaxation in a Plasma Produced by a Pulsed Inert-Gas Discharge*, 28(1) SOV. PHYS. TECH. PHYS. 30–35 (Jan. 1983) (Ex. 1004) (“Kudryavtsev”).

D.V. Mozgrin, *High-Current Low-Pressure Quasi-Stationary Discharge in a Magnetic Field: Experimental Research*, Thesis at Moscow Engineering Physics Institute (1994) (Ex. 1007) (“Mozgrin Thesis”).<sup>1</sup>

*D. Asserted Grounds of Unpatentability*

AMD asserts the following grounds of unpatentability:

<b>Claims</b>	<b>Basis</b>	<b>References</b>
1, 2, 4, 5, 11, 12, 14, and 15	§ 103(a)	Mozgrin and Kudryavtsev
1, 2, 4, 5, 11, 12, 14, and 15	§ 103(a)	Mozgrin and the Mozgrin Thesis
3 and 13	§ 103(a)	Mozgrin, Kudryavtsev, and Wang
3 and 13	§ 103(a)	Mozgrin, Mozgrin Thesis, and Wang
1–5 and 11–15	§ 103(a)	Wang and Kudryavtsev

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<sup>1</sup> The Mozgrin Thesis is a Russian-language reference. AMD provided a certified English-language translation (Ex. 1006).

## II. ANALYSIS

### A. *Claim Construction*

The parties make the same claim interpretation arguments that Taiwan Semiconductor Manufacturing Company, Ltd. and TSMC North America Corporation (collectively, “TSMC”) and Zond made in IPR2014-00799. *Compare* Pet. 13–15, *with* ’799 Pet. 13–15; *compare* Prelim. Resp. 10–16, *with* ’799 Prelim. Resp. 10–16.

We construed the claim terms identified by TSMC and Zond in IPR2014-00799. *See* ’799 Dec. 8–12. For the purposes of the instant decision, we incorporate our previous analysis and apply those claim constructions here.

### B. *Obviousness over Wang and Kudryavtsev*

In its Petition, AMD asserts the same ground of unpatentability based on Wang and Kudryavtsev, as that on which a trial was instituted in IPR2014-00799. *See* Pet. 43–60; ’799 Dec. 28. AMD’s arguments are substantively identical to the arguments made by TSMC in IPR2014-00799. *Compare* Pet. 43–60, *with* ’799 Pet. 42–58. AMD also proffers the same Declaration of Mr. Richard DeVito that TSMC submitted in support of its Petition. *Compare* Ex. 1002, *with* IPR2014-00799, Ex. 1002. Zond’s arguments in the Preliminary Response are essentially identical to those arguments that it made in IPR2014-00799. *Compare* Prelim. Resp. 46–51, *with* ’799 Prelim. Resp. 46–51.

We incorporate our previous analysis regarding the asserted ground of unpatentability based on Wang and Kudryavtsev (’799 Dec. 14–28), and

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