Docket No. 1642930-0005 IPR1 Filed on behalf of GLOBALFOUNDRIES U.S., Inc., GLOBALFOUNDRIES Dresden Module One LLC & CO. KG, GLOBALFOUNDRIES Dresden Module Two LLC & CO. KG By: David M. Tennant, Reg. No. 48,362

By: David M. Tennant, Reg. No. 48,362 White & Case LLP 701 Thirteenth Street, NW Washington, DC 20005 Tel: (202) 626-3684 Email: dtennant@whitecase.com

DOCKET

#### UNITED STATES PATENT AND TRADEMARK OFFICE

#### **BEFORE THE PATENT TRIAL AND APPEAL BOARD**

GLOBALFOUNDRIES U.S., INC., GLOBALFOUNDRIES DRESDEN MODULE ONE LLC & CO. KG, GLOBALFOUNDRIES DRESDEN MODULE TWO LLC & CO. KG Petitioner

v.

ZOND, INC. Patent Owner

Case No.

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 7,604,716 CHALLENGING CLAIMS 1-11 AND 33 UNDER 35 U.S.C. § 312 AND 37 C.F.R. § 42.104

#### U.S. PATENT 7,604,716 Petition for *Inter Partes* Review

## **TABLE OF CONTENTS**

I. Mandatory Notices 1 -			
A. Real Party-in-Interest1 -			
B. Related Matters1 -			
C. Counsel 1 -			
D. Service Information 1 -			
II. Certification of Grounds for Standing2 -			
III. Overview of Challenge and Relief Requested2 -			
A. Prior Art Patents and Printed Publications 2 -			
B. Grounds for Challenge 3 -			
IV. Brief Description of Technology 4 -			
A. Plasma4 -			
B. Ions and Excited Atoms 5 -			
V. Overview of the '716 Patent 6 -			
A. Summary of Alleged Invention of the '716 Patent			
B. Prosecution History 7 -			
VI. Overview of the Primary Prior Art References 8 -			
A. Summary of the Prior Art8 -			
B. Overview of Mozgrin 8 -			
C. Overview of Wang 10 -			
VII. Claim Construction 11 -			
A. "weakly-ionized plasma" and "strongly-ionized plasma" 12 -			
B. "means for ionizing a feed gas" (claim 33) 13 -			
C. "means for supplying an electrical pulse" (claim 33) 14 -			
VIII. Specific Grounds for Petition 15 -			
A. Ground I: Claims 1-5, 8-11 and 33 are anticipated by Mozgrin 15 -			
1. Independent claim 33 is anticipated by Mozgrin 15 -			
2. Independent claim 1 is anticipated by Mozgrin 27 -			
3. Dependent claims 2-5 and 8-11 are anticipated by Mozgrin 30 -			

#### U.S. PATENT 7,604,716 Petition for *Inter Partes* Review

В		Ground II: Claims 6 and 7 are obvious in view of the combination of
M	lozą	grin and the Mozgrin Thesis 36 -
С		Ground III: Claims 1-11 and 33 are anticipated by Wang 39 -
	1.	Independent claim 33 is anticipated by Wang 40 -
	2.	Independent claim 1 is anticipated by Wang 49 -
	3.	Dependent claims 2-11 are anticipated by Wang 51 -
IX.	С	onclusion 60 -

#### **TABLE OF AUTHORITIES**

In re ICON Health & Fitness, Inc., 496 F.3d 1374, 1379 (Fed. Cir. 2007).

37 C.F.R. §42.22(a)(1)

37 C.F.R. § 42.100(b)

37 C.F.R. §42.104(a)

Δ

37 C.F.R. §42.104(b)(1)-(5)

77 Fed. Reg. 48764 (Aug. 14, 2012).

#### I. MANDATORY NOTICES

#### A. Real Party-in-Interest

GLOBALFOUNDRIES U.S., Inc., GLOBALFOUNDRIES Dresden Module One LLC & Co. KG, GLOBALFOUNDRIES Dresden Module Two LLC & Co. KG (collectively, "Petitioner") are the real parties-in-interest.

#### **B.** Related Matters

Zond has asserted U.S. Patent No. 7,604,716 ("'716 Patent") (Ex. 1001)

against numerous parties in the District of Massachusetts. *See* List of Related Litigations (Ex. 1023). Petitioner is also filing additional Petitions for *Inter Partes* review in several patents that name the same alleged inventor. The below-listed claims of the '716 Patent are presently the subject of two substantially identical petitions for *inter partes* review with Case Nos. IPR2014-00520 and IPR2014-00972. Petitioner plans to seek joinder with IPR2014-00520.

#### C. Counsel

Lead Counsel: David M. Tennant (Reg. No. 48,362)

Backup Counsel: Dohm Chankong (Reg. No. 70,524)

#### **D.** Service Information

Pursuant to 37 C.F.R. § 42.8(b)(4), papers concerning this matter should be served on the following. Petitioner consents to electronic service.

David M. Tennant (Reg. No. 48,362)

E-mail: dtennant@whitecase.com

# DOCKET A L A R M



# 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.