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

DOCKET NO.: 0110198-00200US2 Filed on behalf of The Gillette Company Michael A. Diener, Reg. No. 37,122 By:

Larissa B. Park, Reg. No. 59,051

Wilmer Cutler Pickering Hale and Dorr LLP

60 State Street

Boston, MA 02109 Tel: (617) 526-6000

Email: michael.diener@wilmerhale.com

larissa.park@wilmerhale.com

# UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

## THE GILLETTE COMPANY Petitioner

V.

ZOND, INC. Patent Owner

IPR Trial No. TBD

PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 7,604,716 **CHALLENGING CLAIMS 12 AND 13** UNDER 35 U.S.C. § 312 AND 37 C.F.R. § 42.104



## **TABLE OF CONTENTS**

1.	Mandatory Notices	1
A.	Real Party-in-Interest	1
B.	Related Matters	1
C.	Counsel	1
A.	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	3
B.	Grounds for Challenge	3
IV.	Brief Description of Technology	4
A.	Plasma	4
B.	Ions and Excited Atoms	5
V.	Overview of the '716 Patent	7
A.	Summary of Alleged Invention of the '716 Patent	7
В.	Prosecution History	7
VI.	Overview of the Primary Prior Art References	8
A.	Summary of the Prior Art	8
В.	Overview of Mozgrin	9
C.	Overview of Wang	11
VII.	Claim Construction	12
A.	"weakly-ionized plasma" and "strongly-ionized plasma"	13
VIII.	Specific Grounds for Petition	14
A. M	Ground I: Claims 12 and 13 are obvious in view of the combination o ozgrin and Lantsman	
	1. Independent claim 1 is anticipated by Mozgrin	
	2. Dependent claims 12 and 13 are obvious in view of the combination Mozgrin and Lantsman	of
B.	Ground II: Claims 12 and 13 are obvious over Wang in view of Lants 33	man



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

	1.	Independent claim 1 is anticipated by Wang	33
	2.	Dependent claims 12 and 13 are obvious in view of the combination o	f
		ing and Lantsman	
IX.	Co	onclusion	46



## **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)

37 C.F.R. §42.104(b)(1)-(5)

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

35 U.S.C. § 315(c)

37 C.F.R. § 42.22

37 C.F.R. § 42.122(b)



### I. MANDATORY NOTICES

### A. Real Party-in-Interest

The Gillette Company ("Petitioner") is the real party-in-interest.

### **B.** Related Matters

Zond has asserted U.S. Patent No. 7,604,716 ("'716 Patent") (Ex. 1101) 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 is also filing additional Petitions for *Inter Partes* review in several patents related to the '716 Patent.

The below-listed claims of the '716 Patent are presently the subject of a substantially identical petition for *inter partes* review styled Intel Corporation v. Zond, Inc., which was filed March 27, 2014 and assigned Case No. IPR2014-00521. 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: Michael A. Diener (Reg. No. 37,122)

<sup>&</sup>lt;sup>1</sup> The related patents, e.g., name the same alleged inventor.



# 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.

