### UNITED STATES PATENT AND TRADEMARK OFFICE

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### BEFORE THE PATENT TRIAL AND APPEAL BOARD

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GLOBALFOUNDRIES U.S., INC., GLOBALFOUNDRIES DRESDEN MODULE ONE LLC & CO. KG, GLOBALFOUNDRIES DRESDEN MODULE TWO LLC & CO. KG, and THE GILLETTE COMPANY, Petitioners,

v.

Zond, LLC. U.S. Patent No. 7,147,759<sup>1</sup> IPR Case No. IPR2014-01087

#### PETITIONER'S DEMONSTRATIVE EXHIBITS FOR ORAL ARGUMENT

<sup>&</sup>lt;sup>1</sup> Case No. IPR2014-00984 has been joined with this proceeding.



# UNITED STATES PATENT AND TRADEMARK OFFICE

# BEFORE THE PATENT TRIAL AND APPEAL BOARD

# The '759 Patent:

GlobalFoundries U.S. Inc., GlobalFoundries Dresden Module One LLC & Co. K GlobalFoundries Dresden Module Two LLC & Co. KG, The Gillette Company, Fu Semiconductor Limited, Fujitsu Semiconductor America, Inc., Advanced Micro Devic Renesas Electronics Corporation, Renesas Electronics America, Inc. Toshiba America E Components, Inc., Toshiba America Inc., Toshiba America Information Systems, Inc., an Corporation

v. Zond, LLC

IPR2014-00781 and IPR2014-00782

GlobalFoundries U.S. Inc., GlobalFoundries Dresden Module One LLC & Co. GlobalFoundries Dresden Module Two LLC & Co. KG, and The Gillette Comv. Zond, LLC

IPR2014-01083, IPR2014-01086 and IPR2014-01087



# **Overview**

- Overview of '759 Patent
- Grounds Instituted
- Overview of Prior Art
- Summary of Disputes with Respect to Independent Claims
  - Claim Constructions
  - Response to Patent Owner's Arguments
- Summary of Disputes and Responses Related to Dependent



# The '759 Patent



#### (12) United States Patent

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 DE U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-claimer.

| U.S. PALENT DOZ. OMENTS | Instat so | In

(10) Patent No.: US 7,147,759 B2 (45) Date of Patent: \*Dec. 12, 2006

FOREIGN PATENT DOCUMENTS

DE 3210351 AI 9/1983 (Continued) OTHER PUBLICATIONS

This potent is subject to a terminal dischimer.

C1) Appl. No.: 10/085,277

C2) Filed: Sep. 30, 2002

(5) Prior Publication Data
US 2004/0960813 A1 Apr. 1, 2004

(5) Int. C1.
C2IC IASS

C200.C010

C30: US. C1.
204/192.11, 204/192.13,
204/298.05; 204/298.05; 204/298.14

204/298.14

C300.C011

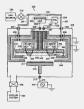
C30: US. C1.
204/192.12, 204/192.13

C304/298.05; 204/298.05; 204/298.05

See application file for complete search thistory.

See application

50 Claims, 18 Drawing Sheets



US 7,147,7 (10) Patent No.:

(45) **Date of Patent:** \*Dec. 1

HIGH-POWER PULSED MAG (54)**SPUTTERING** 



# The '759 Patent

**Anode** (238)

Cathode Assembly (216)

**Pulsed Power Supply** (234)

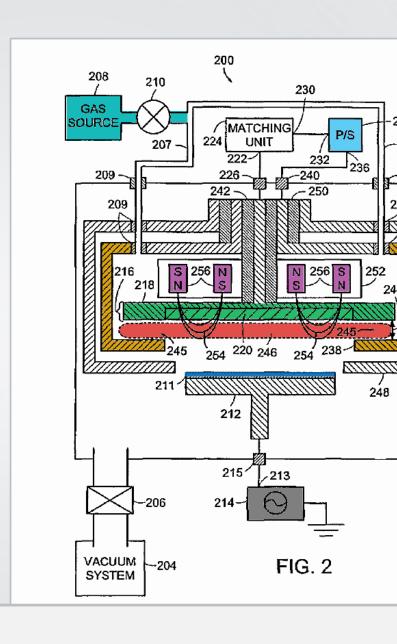
Magnets (256)

**Plasma** (246)

Feed Gas Source (208)

Substrate (211)

**Bias Power Supply (214)** 





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