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COMPONENTS, INC., TOSHIBA AMERICA INC., TOSHIBA
AMERICA INFORMATION SYSTEMS, INC.,
TOSHIBA CORPORATION, and
THE GILLETTE COMPANY,
Petitioners,

V.

Zond, LLC.
Patent Owner of U.S. Patent No. 6,805,779
Trial No. IPR2014-00917<sup>1</sup>

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

<sup>&</sup>lt;sup>1</sup> Cases IPR2014-00918, IPR2014-01025, and IPR2014-01074 have been joined with the instant proceeding.



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# BEFORE THE PATENT TRIAL AND APPEAL BOARD

# The '779 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 Inc., Toshiba America Information Systems, Inc. Toshiba Corporation

v. Zond, LLC IPR2014-00828, IPR2014-00829, and IPR2014-00917

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

IPR2014-01073 and IPR2014-01076



# **Overview**

- Overview of '779 Patent
- Grounds Instituted
- Overview of Prior Art
- Summary of Disputes and Responses Related to Independent
- Summary of Disputes and Responses Related to Dependent



# The '779 Patent

## USO(6805779R2

### (12) United States Patent

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(10) Patent No.: US 6,805,779 B2 (45) Date of Patent: Oct. 19, 2004

(23) Assignce: Zond, Inc., Mansfield, MA (US)

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

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(22) Filed: Man. 21, 2003

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(26) Prior Publication Data US 2004, 1997

(27) Int. Cl. 2004, 2004

(28) Int. Cl. 2004, 2004

(29) List Cl. 2004, 2004

(20) List Cl. 2004, 2004

(21) Int. Cl. 2004, 2004

(22) List Cl. 2004, 2004, 2004

(23) Int. Cl. 2004, 2004

(24) Prior Publication Data US 2004, 2004

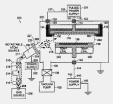
(25) US, Cl. 2004, 2004

(26) List Cl. 2004, 2004

(27) Int. Cl. 2004, 2004

(28) Filed of Search 315(1118, 111.91, 304(208, 37), 2004, 2008, 2

Primary Examiner—Tuyet T. Vo (74) Attorney, Agent, or Firm—Kurt Rauschenbach; Rauschenbach Patent Law Group, LLC



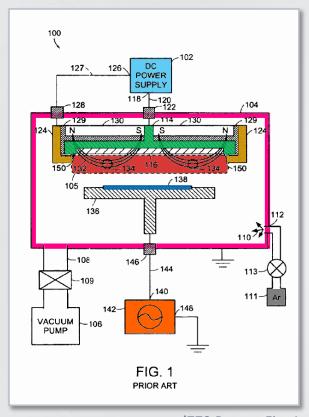
(10) Patent No.: US 6,805,7 Oct. 1

(45) Date of Patent:

(54) PLASMA GENERATION USING M **IONIZATION** 



# '779 Patent and Admitted Prior Art



'779 Patent, Fig. 1

**Plasma Chamber** 

**Anode** 

**Cathode Assembly** 

**Power Supply** 

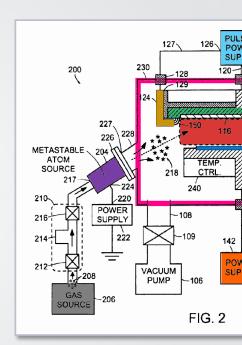
Metastable Atom
Source

Plasma

**Substrate** 

Feed Gas Source

**Bias Power Supply** 





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