UNITED STATES PATENT AND TRADEMARK OFFICE

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

FUJITSU SEMICONDUCTOR LIMITED, FUJITSU SEMICONDUCTOR AMERICA, INC., 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., TOSHIBA CORPORATION, and THE GILLETTE COMPANY, Petitioners,

v.

Zond, LLC. U.S. Patent No. 6,853,142 IPR Case No. IPR2014-00819<sup>1</sup>

### PETITIONER'S DEMONSTRATIVE EXHIBITS FOR ORAL ARGUMENT

<sup>1</sup> Case Nos. IPR2014-00867, IPR2014-01014, and IPR2014-01046 have been joined with this proceeding.

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## UNITED STATES PATENT AND TRADEMARK OFFICE

# BEFORE THE PATENT TRIAL AND APPEAL BOARD

# The '142 Patent:

GlobalFoundries U.S. Inc., GlobalFoundries Dresden Module One LLC & Co. KC GlobalFoundries Dresden Module Two LLC & Co. KG, The Gillette Company, Fuj Semiconductor Limited, Fujitsu Semiconductor America, Inc., Advanced Micro Devices, Inc Electronics Corporation, Renesas Electronics America, Inc., Toshiba America Electronic Co Inc., Toshiba America Inc., Toshiba America Information Systems, Inc., and Toshiba Corp

> v. Zond LLC

IPR2014-00818, IPR2014-00819, IPR2014-00821, and IPR2014-0082

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

v. Zond LLC IPR2014-01098

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# Overview

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- Overview of the '142 Patent
- Grounds Instituted
- Overview of Prior Art
- Summary of Disputes and Responses Related to Independent Claims
- Summary of Disputes and Responses Related to Dependent Claims

# The '142 Patent

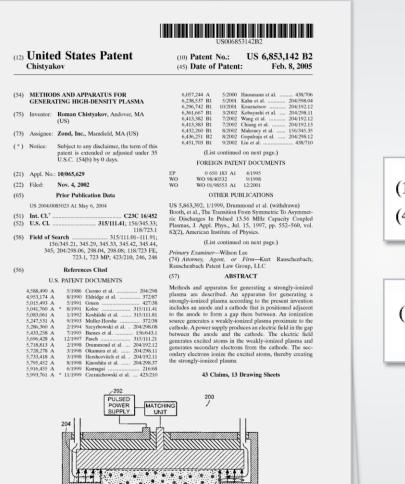
222

234 232

226

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### (10) Patent No.: US 6,853,1 (45) Date of Patent: Feb.

#### (54) METHODS AND APPARATUS FO GENERATING HIGH-DENSITY P

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# The '142 Patent – Fig. 2A

Cathode (204)

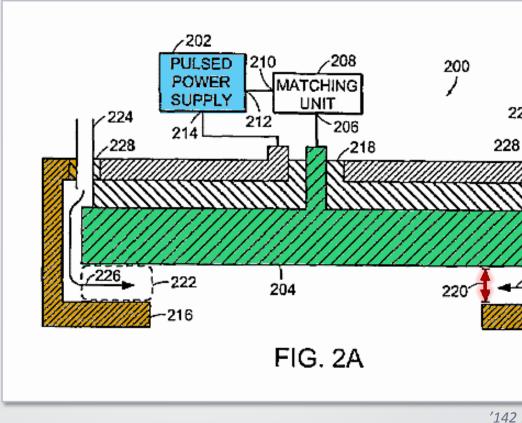
**Anode** (216)

**Gap** (220)

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Pulsed power supply (202)

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