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, and THE GILLETTE COMPANY, Petitioners,

v.

Zond, LLC. Patent Owner of U.S. Patent No. 6,806,652 Trial No. IPR2014-01088<sup>1</sup>

PETITIONER'S DEMONSTRATIVE EXHIBITS FOR ORAL ARGUMENT

<sup>1</sup> Case IPR2014-01000 has been joined with the instant proceeding.

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# UNITED STATES PATENT AND TRADEMARK OFFICI BEFORE THE PATENT TRIAL AND APPEAL BOARD

## The '652 Patent:

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

> v. Zond LLC IPR2014-00861

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

> v. Zond LLC IPR2014-01088 and IPR2014-01089

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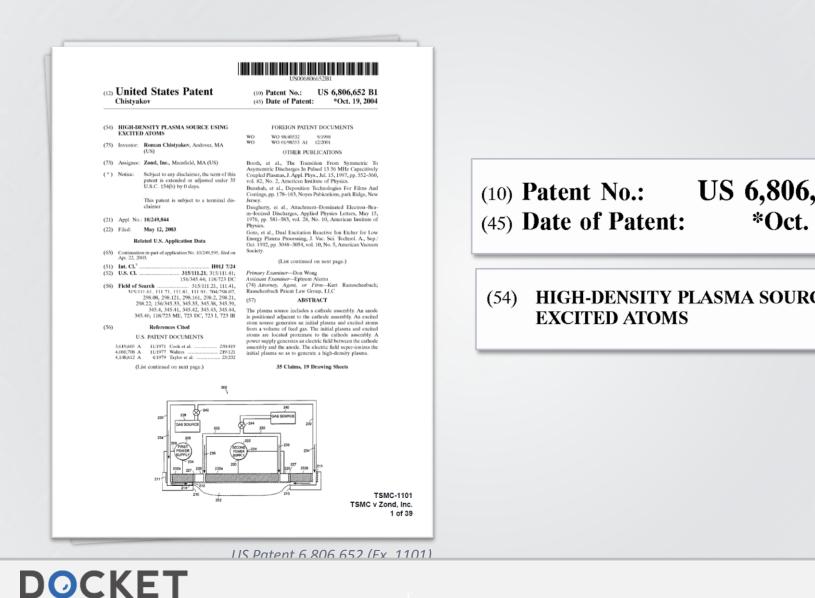
# **Overview**

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- Overview of the '652 Patent
- Grounds Instituted
- Overview of Prior Art
- Summary of Disputes with Respect to Independent Claims
- Summary of Disputes with Respect to Dependent Claims

# The '652 Patent

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# Independent Claims

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## Claim 1 "Excited Atom Source"

- 1. A high-density plasma source comprising:
- a) a cathode assembly;
- b) an anode that is positioned adjacent to the cathode assembly;
- c) an excited atom source that generates an initial plasma and excited atoms from a volume of feed gas, the initial plasma and excited atoms being proximate to the cathode assembly; and
- d) a power supply that generates an electric field between the cathode assembly and the anode, the electric field super-ionizing the initial plasma so as to generate a high-density plasma.

'652 Patent, Claim 1 (Ex. 1101)

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