Filed on behalf of The Gillette Company

By: David L. Cavanaugh, Reg. No. 36,476

Yung-Hoon Ha, Reg. No. 56,368

Wilmer Cutler Pickering Hale and Dorr LLP

1875 Pennsylvania Ave., NW

Washington, DC 20006

Tel: (202) 663-6000

Email: David.Cavanaugh@wilmerhale.com

Yung-Hoon.Ha@wilmerhale.com

UNITEL	) STATES	PATENT	AND	TRADE	MARK	OFFICE

## BEFORE THE PATENT TRIAL AND APPEAL BOARD

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The Gillette Company, Fujitsu Semiconductor Limited, and Fujitsu Semiconductor America, Inc.
Petitioners,

V.

Zond, LLC. Patent Owner of U.S. Patent No. 6,896,775

Trial No. IPR2014-006041

### PETITIONERS' DEMONSTRATIVE EXHIBITS FOR ORAL ARGUMENT

<sup>&</sup>lt;sup>1</sup> Case IPR2014-01482 has been joined with the instant proceeding.



# UNITED STATES PATENT AND TRADEMARK OFFICE

# BEFORE THE PATENT TRIAL AND APPEAL BOARD

The '775 Patent:

The Gillette Company, Fujitsu Semiconductor Limited, and Fujitsu Semiconductor America, Inc.

>

Zond, LLC.

IPR2014-578 (joined with IPR2014-01494) and

IPR2014-604 (joined with IPR2014-01482)

May 26, 2015



# verview

Overview of the '775 Patent

The Instituted Combinations

Issues Raised by Patent Owner

Conclusion



# he '775 Patent



# (22) United States Patent

US 6,896,775 B2 : May 24, 2005

(10) Patent No.: (45) Date of Patent:

US 5.803,92, 1/1900, Deummond et al. (withdrawn)
Encyclepted of U. Lee Therpeature Datum, p. 119, vol. 3,
Encycloped of U. Lee Therpeature Datum, p. 129, vol. 3,
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Chiyayaka, High-Power Phistod Magneton Sput-tering, U.S. Appl. No.: 10065,277, Fieler Sup. 90, 2002.
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Booth, et al., The Transition From Symmetric To Asymmetr for Distances in Parise L356 MHz, Capacity Coupled Plannas, J. Appl. Phys., Jul. 15, 1997, pp. 552-560, vol. 82
(2), American Institute of Physics. WO 98/40532 9/1998 WO 01/98553 AI 12/2001 Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 386 days. HIGH-POWER PULSED MAGNETICALLY ENHANCED PLASMA PROCESSING (75) Inventor: Roman Chistyakov, Andover, MA (US) (73) Assignce: Zond, Inc., Mansheld, MA (US)

99

OTHER PUBLICATIONS

Prior Publication Data Oct. 29, 2002 (21) Appl. No.: 10/065,551 (22) Filed: Oct. 29, 200

(8)

(\*) Notice:

...... C23C 14/34; C23F 1/00 US 2004/0082187 A1 Apr. 29, 2004 (51) Int. Cl.<sup>7</sup> (52) U.S. Ct.

Prinary Ezaminer—Rodney G. McDonald (74) Attorney, Agent, or Firm—Kurt Rauschenbach; Rauschenbach Patent Law Group, LLC

(Continued)

ABSTRACT

CO. 204.298.31, 204.192.32, 204.298.31, 204.298.31, 204.298.31, 204.298.31, 206.298.31, 206.32, 208.31, 206.32, 208.32 (58) Field of Search

References Cited

(36)

U.S. PATENT DOCUMENTS

to the anote. An ionization source generates a weekly-cincide place and proximate to the ealthout. A magnet is positioned to generate a magnetic field proximate to the weekly-circide (places). The magnetic field substantially traps determent in the weekly-reduced placem proximate to the calibro. A prover suphy-proxime, and except field is a gap between the anode and the calibrie. The electric field is a

Magnetically enhanced plasma processing methods and appearing are described. A magnetically enhanced plasma processing apparatus according to the present invention includes an anote and a cathode that is positioned adjacent

generates excited atoms in the vostkip-tonized plasms and generates secondary electrons from the enriched. The sec-ondary electrons from the enriched. The sec-ondary electrons from the enriched reads, thereby creating a strongly-ciolated plasms. A vottage supely applies a base vottage to a subsection that the postability of presents to the eatherd their causes tooks in the partiality of itsets to impact a surface of the subsection is a nature that causes excluding.

FOREIGN PATENT DOCUMENTS 0428 161 A2 5/1991

37 Claims, 18 Drawing Sheets

the surface of the substrate.



GILLETTE 1001

HIGH-POWER PULSED MAGNETICALLY ENHANCED PLASMA PROCESSING (54)

US 6,896,775 B2

May 24, 2005

(45) Date of Patent:

(10) Patent No.:

US Patent 6,896,775, IPR2014-578, Ex. 1001

# he 7775 Patent

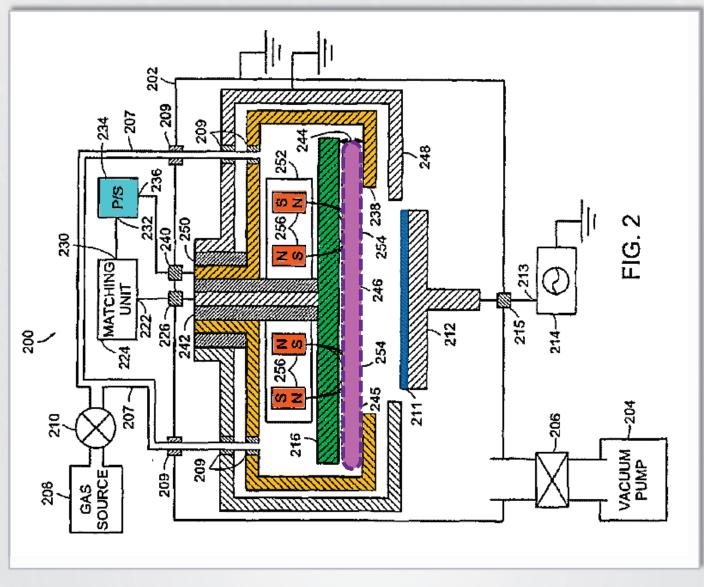
elates to "magnetically nhanced plasma rocessing apparatus"

gnetic field applied using manent magnets (256)

ctrical pulse applied across ode (238) and cathode 6) through pulsed power oply (234)

sma generated in ted region (245/246)

s provided to strate (211)



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