Filed on behalf of The Petitioners

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

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

Petitioners,

V.

Zond, Inc.
Patent Owner of U.S. Patent No. 6,896,773
Trial No. IPR2014-00580¹

PETITIONERS' DEMONSTRATIVE EXHIBITS FOR ORAL ARGUMENT

¹ Case IPR2014-01479 has been joined with the instant proceeding.



UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

The '773 Patent:

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

٧.

Zond, LLC.

IPR2014-580 (joined with IPR2014-1479) and IPR2014-726 (joined with IPR2014-1481)



Overview

- Overview of the '773 Patent
- Grounds Instituted by the Board
- Overview of Prior Art
- Issues Raised by Patent Owner
- Conclusion



The '773 Patent

(23) Assignce: Zend, Iac., Mansfield, MA (US) (24) Notice: Subject to any dischimer, the term of this palent is created or adjusted under 35 U.S.C. 154(b) by 0 days. This palent is subject to a terminal dischimer. This palent is subject to a terminal dischimer. This palent is subject to a terminal dischimer. (25) Appl. Not. 16065,739 (26) Filed: Nov. 14, 2002 Filed: Nov. 14, 2002 Filed: Nov. 14, 2002 The prior Publication Data US 2004094411 Al May 20, 2004 (27) Int. Ct. Care 204498-01, 2044296-	(12) United States Patent Chistyakov			(10) Patent No.: US 6,896,773 B2 (45) Date of Patent: "May 24, 2005	
(25) laventor (US) (US) (17) Assignee: Zond, Inc., Mansfield, MA (US) (17) Notice: Subject to any disclaimer, the term of this patient is excluded or adjusted under 35 U.S.C. 154(b) by 0 days. This patient is subject to a terminal disclaimer. This patient is subject to a terminal disclaimer. (27) Appl. Not. 16965, 739 (28) Filed: Nov. 14, 2002 (29) Filed: Nov. 14, 2002 (20) Filed: Nov. 14, 2002 (20) Filed: Nov. 14, 2002 (20) Filed: Nov. 14, 2002 (21) Int. Cl. 2004 (19.2.1.2. 2004 (19.2.1.3. 2004 (29.2.1.3. 2004 (29.2.1.3. 2004 (29.2.1.3. 2004 (29.2.1.3. 2004 (29.2.3. 20.2.	(54)	HIGH DEPO	ISITION RATE SPUTTERING		
(73) Assignce: Zend, Inc., Mansfield, MA (US) (74) Notice: Subject to any dischainer, the term of this patient is extended or adjusted under 35 US. C. 154(bb) by 0 days. This patient is subject to a terminal dischainer. (75) Appl. Not. 16905;739 (76) Prior Publication Data (77) US. C. 154(bb) by 0 days. This patient is subject to a terminal dischainer. (77) Appl. Not. 16905;739 (78) Filed: Nov. 14, 2002 Fried Nov. 14, 2002 (79) Filed: Nov.	(75)			6,413,383 B1 7/2002 Chiang et al 204/192.13 6,436,251 B2 8/2002 Gorubaia et al 204/298.12	
Subject to any disclaime, the term of this potent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. This patent is subject to a terminal disclaimer. This patent is subject to a terminal disclaimer	(73)	Assignce: Z	ond, Inc., Mansfield, MA (US)		
(21) Apt. No.: 14, 2002 (65) Prior Publication Data US 20040084411 At May 20, 2004 (51) Int. CL ² (52) US, CL 204178212, 2041792.13, 204298.03, 204280.08, 204208.04, 204208.19, 204208.08, 208.	(*)	U.	tent is extended or adjusted under 35 S.C. 154(b) by 0 days. is patent is subject to a terminal dis-	DE: 3210351 AI 9/1983 EF 0.788 139 AI 8/1997 GB 133990 1211973 JP 57194254 111/982 WO WO 9844652 9/1998	
(22) Filed: Nov. 14, 2002 Prior Publication Data US 2004/094411 At May 20, 2004 Int. CL? C 2004/094411 At May 20, 2004 Su U.S. C.L 2004/295.12, 2004/295.08; 204/296.08; 2	(21)	Annl. No : 16	045.730	OTHER PUBLICATIONS	
(65) Prior Publication Data (US 2004009441) A1 May 20, 2004 (US 2004009441) A1 May 20, 2004 (US CL. 2044192.12, 2044192.13, 2044298.08, 2044298.08, 2044298.14, 2044298.10, 2044298.08, 2044298.14, 2044298.10,					
Continued Cont				Cathode Material, Soviet Technical Physics Letters, Jul.	
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U.S. PATENT DOCUMENTS 4.588,490 A 51990 Chome et al. 204,298 5.586,390 A 51992 Chome et al. 35111.81 5.286,390 A 21994 Shorphonal 21992 Konhishi et al. 35111.81 5.286,390 A 21994 Shorphonal 21995 Shorphonal 21995 Shorphonal 21995 Shorphonal 21995 Shorphonal 21996 Shorphonal 21	(52)	52) U.S. Cl. 204/192.12, 204/192.13, 204/298.03; 204/298.04; 204/298.04; 204/298.07; 204/298.19 58) Field of Search 204/192.12, 192.13, 204/298.03, 298.06, 228.07, 298.07, 298.08, 298.06		Prinary Enanher—Rothey G. McDonald (74) Austrey, Agent, or Firm—Kurt Rauschenhach, Rauschenhack Pitent Law Group, LLC (57) ABSTRACT	
4588,490 A 51999 Cheene et al. 204298 5005,400 A 51991 Cheene et al. 204288 5080,001 A 1992 Robinshi et al. 3551181 5280,300 A 21994 Rocyshovski 204284.8 5.718,413 A 21998 Dominored et al. 204284.18 5.718,413 A 21998 Dominored et al. 204284.11 5.718,413 A 21998 Dominored et al. 204284.11 6.087,344 A 52000 Robinshi et et al. 204284.11 6.087,344 A 52000 Robinshi et et al. 204284.11 6.087,344 A 52000 Robinshi et et al. 204284.11 6.087,345 A 22000 Robinshi et al. 204284.11 6.087,345 A 22000 Robinshi et al. 204284.11 6.087,345 B 52000 Robinshi et al. 204284.11 6.087,345 B 52000 Robinshi et al. 204284.11 6.097,424 B 62000 Robinshi et al	(56)			cathode assembly that is positioned adjacent to the anode-	
10 8 4 2 502 504		5,015,499 A 5,063,061 A 5,286,360 A 5,718,813 A 5,728,278 A 5,738,418 A 6,057,244 A 6,057,244 A 6,238,537 Bi 6,296,742 Bi	51991 Once 42738 1992 Konkinki et al. 315111.81 21993 Suczyphowski 21998 Dammond et al. 204(28408 21998 Dammond et al. 204(2841) 1998 Benboroch et al. 204(2841) 52000 Bamman et al. 488705 52000 Kohyayaki et al. 204(98) 52000 Kohyayaki et al. 204(98)	ionization source gonerance a weakly-ionized phems proxi- mate to the anode and the cathode assembly. A power supply produces an electric field between the anode and the cathode assembly that creates a strongly-ionized plasma from the weakly-ionized plasma. The strongly-ionized plasma includes a first plurality of ions that impact the sputtering larget to generate sufficient thermal energy in the sputtering larget to cause a sputtering yield of the sputtering larget to be non-linearly school to a temperature of the sputtering larget.	
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(10) Patent No.: US 6,896, (45) Date of Patent: *May 2

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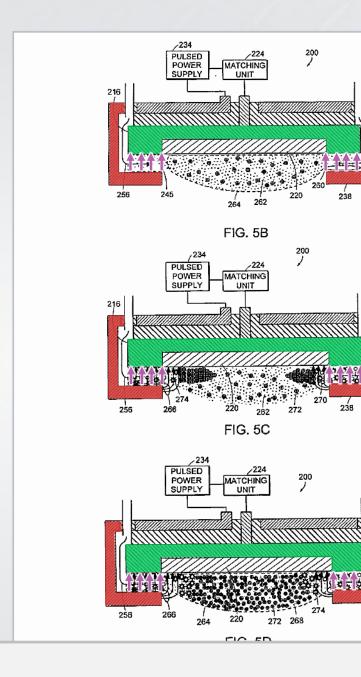
The '773 Patent

Relates to a "sputtering source"

Feed gas (256) provided between cathode assembly (216) and anode (238)

Pulsed power supply (234) generates weakly-ionized plasma (262)

Pulsed power supply (234) applies voltage pulse between cathode assembly (216) and anode (238) generates strongly-ionized plasma (268)





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