

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

Case IPR2014-01098¹
Patent 6,853,142

ZOND LLC'S PATENT OWNER RESPONSE

¹Case IPR2014-01016 has been joined with the instant proceeding.

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 b. Kudryavtsev – A. A. Kudryavtsev and V.N. Skerbov, Ionization relaxation in a plasma produced by a pulsed inert-gas discharge, Sov. Phys. Tech. Phys. 28(1), pp. 30-35, January 1983 (Ex. 1404). 26

 c. Wang – U.S. Patent No. 6,413,382 (Exhibit 1405)..... 28

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1. The cited references do not teach “diffusing the strongly-ionized plasma with additional feed gas to allow additional power to be absorbed by the strongly-ionized plasma,” as recited in independent claim 40.43

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Exhibit List

Exhibit No.	Description
Ex. 2004	U.S. Patent 6,398,929 to Chiang
Ex. 2005	Declaration of Dr. Hartsough, Patent Owner's expert.
Ex. 2006	Sinha, Naresh, K., Control Systems, Holt, Rinehart and Winston, 1986.
Ex. 2007	Eronini Umez-Eronini, System Dynamics and Control, Brooks Cole Publishing Co., CA, 1999, pp. 10-13.
Ex. 2008	Excerpts from Weyrick, Fundamentals of Automatic Control, McGraw-Hill Book Company, 1975.
Ex. 2009	Excerpts from Kua, Automatic Control, Prentice Hall Inc., 1987.
Ex. 2010	Transcript of deposition of Dr. Kortshagen, Petitioners' expert, for the '759 Patent
Ex. 2011	Transcript of deposition of Dr. Kortshagen, Petitioners' expert, for the '142 Patent

I. INTRODUCTION

The Petitioners' arguments hinge on fanciful misreadings of the prior art by their proffered expert, Dr. Uwe Kortshagen. As will be shown below, neither Wang nor Lantsman teaches supplying "feed gas to the strongly-ionized plasma, the feed gas diffusing the strongly-ionized plasma, thereby allowing additional power from the pulsed power supply to be absorbed by the strongly ionized plasma" as required by independent claim 40 of the '142 patent. Once the Board recognizes that Dr. Kortshagen essentially invented some of the alleged "teachings" in Wang and Lantsman to suit the Petitioners' objectives, the Board should agree to confirm the challenged claims.

The '142 patent discloses and illustrates in FIG. 2C feed gas entering a chamber in a gap 220 between a cathode 204 and an anode 216 in the vicinity of the strongly ionized plasma so that it can diffuse the plasma, thereby allowing additional power from the pulsed power supply to be absorbed by the strongly ionized plasma.²

Wang, in contrast, does not teach feed gas diffusing the strongly-ionized plasma to thereby allow additional power from the pulsed power supply to be absorbed by the strongly ionized plasma. Indeed, Petitioners' own expert, Dr.

² Exhibit 1401, '142 patent, FIG. 2C, col. 9, ll. 48-57.

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