By: Christopher Frerking (chris@ntknet.com)
Reg. No. 42,557

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

INTEL CORPORATION, GLOBALFOUNDRIES U.S., INC.,
MICRON TECHNOLOGY, INC., AND
SAMSUNG ELECTRONICS COMPANY, LTD.,

Petitioners

V.

DANIEL L. FLAMM,

Patent Owner

CASE IPR2017-00280¹ U.S. Patent No. RE40,264 E

PATENT OWNER'S RESPONSE UNDER 37 C.F.R. § 42.107 Claims 27-36, 51-55, 66 & 68-69

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¹ Samsung Electronics Company, Ltd. Was joined as a party to this proceeding via a Motion for Joinder in IPR2017-01750.



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IX.	Ground 4 Kikuchi and Matsumura Do Not Render Claims 27 and Obvious	
1.	Neither Kikuchi nor Matsumura teaches claim element 27[a]	
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Inter Partes Review of U.S. Patent No. RE40,264 IPR2017-00280

2.	The Petition does not specify any prior art for claim element 27 [e]	
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3.	The PTAB must make a finding of a motivation to combine when it is disputed.	
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<i>In Re Fine</i> 837 F.2d 1071 (Fed. Cir. 1988)	23
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Intelligent Bio-Systems, Inc. v. Illumina Cambridge Ltd., 821 F.3 (Fed.Cir.2016)	
Kimberly Clark Corp. v. Johnson & Johnson, 745 F.2d 1437 (Fed. Cir. 1984)	23
KSR Int'l Co. v. Teleflex, Inc., 550 U.S. 398 (2007)	15, 17
Office Patent Trial Practice Guide, 77 Fed. Reg. 48,756, 48,767 (Aug. 14, 2012)	22
<u>Statutes</u>	Page(s)
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COMES NOW Patent Owner, Daniel L. Flamm, Sc.D., the sole inventor and owner of the U.S. Patent No. RE40,264 ("the '264 patent"), through his counsel, submits this response pursuant to 37 C.F.R. § 42.107 and asks that the Patent Trial and Appeals Board confirm the patentability of independent claims 27 and 51 and all their dependent claims.

I. Introduction

This response addresses the two independent claims, 27 and 51, and their dependent claims that are the subject of the institution Order. The Board ruled that these claims would have been obvious "using Matsumura's control "recipes" in Kadomura's dry etching apparatus and method" (Decision p. 22), and by combining Kikuchi with Matsumura (*Id.* p. 34).

The obviousness issue revolves around the claim limitation, changing the temperature "within a preselected time interval," specifically:

wherein substrate temperature is changed from the selected first substrate temperature to the selected second substrate temperature, using a measured substrate temperature, within a preselected time interval for processing. . . .

(Claim 27 Ex. 1001 at 22:22-28.)

The substrate temperature control effectuates the change from the first substrate temperature to the second substrate temperature within a preselected time period (Claim 51, *Id.* 24:23-26)



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