## UNITED STATES PATENT AND TRADEMARK OFFICE

## BEFORE THE PATENT TRIAL AND APPEAL BOARD

GLOBALFOUNDRIES U.S. INC., Petitioner,

v.

GODO KAISHA IP BRIDGE 1, Patent Owner.

> Case IPR2017-00922 Patent 6,197,696

PATENT OWNER'S PRELIMINARY RESPONSE UNDER 37 C.F.R. § 42.107



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II.	Claim Construction			
	A.	"using the [first resist pattern [step g]/second resist pattern and the mask pattern [step i]/patterned fourth insulating film [step j]] as a mask" (claim 10)		
III.	Petit	ioner Fails to Show That Grill Is Prior Art10		
	A.	The '696 patent is entitled to its claimed priority date of March 26, 1998		
		<ol> <li>Step 10(h) – "removing the first resist pattern and then forming a second resist pattern on the fourth insulating film and the mask pattern, the second resist pattern having openings for forming contact holes"</li></ol>		
		2. Step 10(i) – "dry-etching the fourth insulating film using the second resist pattern and the mask pattern as a mask, thereby patterning the fourth insulating film to have the openings for forming contact holes"		
		3. Step 10(j) – "dry-etching the third insulating film using the patterned fourth insulating film as a mask, thereby patterning the third insulating film to have the openings for forming contact holes"		
		4. Step 10(1) – "dry-etching the patterned third insulating film and the first insulating film using the mask pattern and the patterned second insulating film as respective masks, thereby forming the wiring grooves and the contact holes in the patterned thid insulating film and the first insulating film, respectively"20		
	B.	Petitioner has not shown, and cannot show, that Grill is entitled to the priority date of the '628 application		
		<ul> <li>priority date of the '628 application in the Petition</li></ul>		

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		•	into the second dielectric layer, while concurrently ving said via patterned second layer of resist"29		
		(a)	Dr. Smith's reliance on a disclosure relating to etch characteristics in the Background of the '628 application is misplaced		
		(b)	Dr. Smith's opinion that concurrent etching of the photoresist layer and the dielectric layer is the only possibility is unsupported by and contradictory to the '628 application		
		(c)	Dr. Smith's opinions are not credible because they are based on problems inapplicable to the relevant embodiments		
	3.	writte	oner fails to show that the '628 patent application provides en description support for the Grill subject matter alleged aclose claim 10 of the '696 patent		
IV.	Petitioner fails to demonstrate that Grill discloses or renders obvious "using the second resist pattern and the mask pattern as a mask"				
V.	Petitioner fails to demonstrate that Grill discloses or renders obvious "dry- etching the fourth insulating film"				
VI.	Petitioner fails to demonstrate that it would have been obvious to combine Grill and Aoyama				
VII.	Petitioner fails to demonstrate that it would have been obvious to combine Grill and Wetzel				
VIII.	Petitioner fails to demonstrate that it would have been obvious to combine Grill, Aoyama and Wetzel				
IX.	Conclusion				

## IPR2017-00922 U.S. Patent No. 6,197,696

Exhibit	Description		
EX2001	N. Sclater & J. Markus, McGraw-Hill Electronics Dictionary		
	(6th ed. 1997) (excerpted)		
EX2002	R. F. Graf, Modern Dictionary of Electronics (6th ed. 1984)		
	(excerpted)		
EX2003 R. F. Graf, Modern Dictionary of Electronics (7th			
	(excerpted)		
EX2004	4 S. M. Kaplan, Wiley Electrical and Electronics Engineering		
	Dictionary (2004) (excerpted)		
EX2005	005 October 7, 2016 Preliminary Constructions, Godo Kaisha		
	Bridge 1 v. Broadcom Ltd., et al., Case. No. 2:16-cv-134		
EX2006	Hans Domininghaus, Plastics for Engineers: Materials,		
	Properties, Applications (1993) (excerpted)		
EX2007	U.S. Patent No. 6,147,009 to Grill et al.		
EX2008	Declaration of Jordan M. Rossen		

## LIST OF EXHIBITS

U.S. Patent No. 6,197,696

Pursuant to 37 C.F.R. § 42.107, <sup>1</sup> Patent Owner Godo Kaisha IP Bridge 1 ("IP Bridge," "Patent Owner") submits this Preliminary Response to the abovecaptioned Petition for Inter Partes Review of U.S. Patent No. 6,197,696 challenging independent claim 10 and its dependent claims 11-12 ("Pet.," Paper 1), which should be denied in its entirety. Petitioner GlobalFoundries U.S. Inc. ("Petitioner") has filed a Motion for Joinder (Paper 2) requesting that this proceeding be joined with IPR2016-01377 ("Second TSMC IPR"), which Patent Owner has opposed (Paper 6). In the Motion, Petitioner indicates that the Petition "includes grounds that are essentially the same as the ground instituted in the Second TSMC IPR" and that "Petitioner does not seek to alter the grounds upon which the Board has already found support in instituting the Second TSMC IPR." Paper 2 at 1; see also Pet. at 67 ("This petition includes the same grounds and exhibits against the '696 patent as asserted in ... IPR2016-01377, filed by Taiwan Semiconductor Manufacturing Company Limited ("TSMC"), which was instituted on January 18, 2017."). With the exception of this paragraph, references herein to Petitioner, citations herein to Petition page numbers, and an updated attorney declaration for this proceeding (Exhibit 2008), this Preliminary Response and the

<sup>&</sup>lt;sup>1</sup> All emphasis herein is added, and all statutory and regulatory citations are to either 35 U.S.C. or 37 C.F.R., as the context indicates, unless otherwise stated.

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