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 IPR2017-00921 Patent 6,197,696

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



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| II. | Clair | n Con | struction4 | | | | |
| | Α. | "using the [first resist pattern [step f]/second resist pattern and the mask pattern [step h]/patterned third insulating film [step i]] as a mask" (claim 13) | | | | | |
| III. | Petitioner Fails to Show That Grill Is Prior Art10 | | | | | | |
| | Α. | The '696 patent is entitled to its claimed priority date of March 26, 1998 | | | | | |
| | | 1. | Step 13(g) – "removing the first resist pattern and then forming a second resist pattern on the third insulating film and the mask pattern, the second resist pattern having openings for forming contact holes" | | | | |
| | | 2. | Step 13(h) – "dry-etching the third insulating film using the second resist pattern and the mask pattern as a mask, thereby patterning the third insulating film to have the openings for forming contact holes" | | | | |
| | | 3. | Step 13(i) – "dry-etching the second insulating film using the patterned third insulating film as a mask, thereby patterning the second insulating film to have the openings for forming contact holes" | | | | |
| | В. | Petitioner has not shown, and cannot show, that Grill is entitled to the priority date of the '628 application20 | | | | | |
| | | 1. | Petitioner never attempts to argue that Grill is entitled to the priority date of the '628 application in the Petition20 | | | | |
| | | 2. | The '628 application does not provide written description support for the claims of Grill because it does not disclose "transferring the via pattern in the patterned first hard mask layer into the second dielectric layer, while concurrently removing said via patterned second layer of resist" | | | | |
| | | | (a) Dr. Smith's reliance on a disclosure relating to etch characteristics in the Background of the '628 application is misplaced | | | | |



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| | | | P | age |
|-----|------------|-------|---|-----|
| | | (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 | .31 |
| | | (c) | Dr. Smith's opinions are not credible because they are based on problems inapplicable to the relevant embodiments | .33 |
| | 3. | writt | ioner fails to show that the '628 patent application providen description support for the Grill subject matter alleged sclose claim 13 of the '696 patent | d |
| IV. | | | demonstrate that Grill discloses or renders obvious "using pattern and the mask pattern as a mask" | _ |
| V. | | | demonstrate that Grill discloses or renders obvious "dry-nsulating film" | |
| VI. | | | demonstrate that it would have been obvious to combine | |
| VII | Conclusion | | | 53 |



LIST OF EXHIBITS

| 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 ed. 1999) |
| | (excerpted) |
| EX2004 | S. M. Kaplan, Wiley Electrical and Electronics Engineering |
| | Dictionary (2004) (excerpted) |
| EX2005 | October 7, 2016 Preliminary Constructions, Godo Kaisha IP |
| | Bridge 1 v. Broadcom Ltd., et al., Case. No. 2:16-cv-134 |
| EX2006 | Declaration of Jordan M. Rossen |



Pursuant to 37 C.F.R. § 42.107, 1 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 13 and its dependent claim 15 ("Pet.," Paper 2), which should be denied in its entirety. Petitioner GlobalFoundries U.S. Inc. ("Petitioner") has filed a Motion for Joinder (Paper 3) requesting that this proceeding be joined with IPR2016-01376 ("First TSMC IPR"), which Patent Owner has opposed (Paper 7). In the Motion, Petitioner indicates that the Petition "includes grounds that are essentially the same as the ground instituted in the First TSMC IPR" and that "Petitioner does not seek to alter the grounds upon which the Board has already found support in instituting the First TSMC IPR." Paper 3 at 1; see also Pet. at 60 ("This petition includes the same grounds and exhibits against the '696 patent as asserted in ... IPR2016-01376, 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 2006), this Preliminary Response and the exhibits



¹ 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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