

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.  
AND GLOBALFOUNDRIES U.S. INC.,  
PETITIONER,

v.

GODO KAISHA IP BRIDGE 1,  
PATENT OWNER.

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Case IPR2016-01376, Case IPR2016-01377,  
Case IPR2016-01378, Case IPR2016-01379<sup>1</sup>  
U.S. Patent No. 6,197,696 B1

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Record of Oral Hearing  
Held: September 12, 2017

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Before JUSTIN T. ARBES, MICHAEL J. FITZPATRICK, and JENNIFER  
MEYER CHAGNON, *Administrative Patent Judges.*

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<sup>1</sup> GlobalFoundries U.S. Inc.'s motions for joinder in Cases IPR2017-00921, IPR2017-00922, IPR2017-00923, and IPR2017-00924 were granted.

Case No. IPR2016-01376, Case No. IPR2016-01377,  
Case No. IPR2016-01378, Case No. IPR2016-01379  
Patent No. 6,197,696 B1

APPEARANCES:

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ALSO PRESENT:

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HIRMU IKEGAMI

The above-entitled matter came on for hearing on Tuesday, September 12, 2017, commencing at 2:00 p.m. at the U.S. Patent and Trademark Office, 600 Dulany Street, Alexandria, Virginia in Courtroom A.



Case No. IPR2016-01376, Case No. IPR2016-01377,  
Case No. IPR2016-01378, Case No. IPR2016-01379  
Patent No. 6,197,696 B1

1 more clearly. And also please remember to speak into the  
2 microphone at the podium so that he can hear you.

3 As we're doing the presentations today, if either  
4 party believes that the other party is presenting improper  
5 arguments, I would ask that you please just raise that issue  
6 during your own presentation and not interrupt the other side  
7 during their presentation.

8 And, finally, we received the parties' objections  
9 to the demonstratives and we've noted those. We will  
10 overrule the objections. The parties can present their  
11 presentations today using the demonstratives as filed. And  
12 we just want to remind everybody that they're just visual  
13 aids to assist the presentation and they're not briefs or  
14 evidence. So we will be able to take that into account in  
15 rendering our final decision.

16 Are there any questions before we begin today?

17 MR. BAUGHMAN: Your Honor, if I may, I don't expect  
18 it will come up, but if there's an objection in the last  
19 portion of the presentations, should we save those to raise  
20 after the Petitioner's concluded or --

21 JUDGE CHAGNON: If it happens to come up, please  
22 just let us know. We can address that at that time.

23 MR. BAUGHMAN: Thank you, Your Honor.

24 JUDGE CHAGNON: All right. If there's no further  
25 questions, Petitioner, you can go ahead whenever you're  
26 ready.

Case No. IPR2016-01376, Case No. IPR2016-01377,  
Case No. IPR2016-01378, Case No. IPR2016-01379  
Patent No. 6,197,696 B1

1           Would you like to reserve any time today for  
2   rebuttal?

3           MR. YOCHES: Yes, I would like to reserve 30  
4   minutes.

5           JUDGE CHAGNON: Okay. Whenever you're ready, you  
6   can begin.

7           MR. YOCHES: The technology that we're going to  
8   talk about -- if you can turn to Slide 3 to begin with -- has  
9   two components. One, is the wiring levels, the wiring  
10   patterns or trenches, and the other are the via layers, they  
11   go between the levels, contact holes.

12           And if you turn to Slide 4, what the patent and the  
13   prior art is about is forming the vias and the trenches at  
14   the same time, that's why it's Dual Damascene. So that's --  
15   unless there's some additional questions, that's about the  
16   extent of the background I was going to go into from the  
17   technology standpoint.

18           The issues in all four IPRs are essentially the  
19   same. If we go to Slide 9, it summarizes -- there's two, one  
20   is an issue of priority and the other is the issue of  
21   motivation to combine.

22           The question of the priority, the question is  
23   whether the principal reference, Grill, is prior art which  
24   devolves into two questions; is the '696 patent -- can it  
25   antedate Grill because Grill has an earlier filing date. And  
26   if so, is Grill entitled to the benefit of its filing date

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