

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

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

v.

GODO KAISHA IP BRIDGE 1,
PATENT OWNER.

Case IPR2016-01376, Case IPR2016-01377,
Case IPR2016-01378, Case IPR2016-01379¹
U.S. Patent No. 6,197,696 B1

Record of Oral Hearing
Held: September 12, 2017

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

¹ 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:

ON BEHALF OF THE PETITIONERS:

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ALSO PRESENT:

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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.

P R O C E E D I N G S

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JUDGE CHAGNON: Good afternoon, everyone. This is the final hearing for four IPR proceedings today; IPR2016-01376, -01377, -01378, and -01379, all involving U.S. Patent 6,197,696.

Counsel, could you please go ahead and introduce yourselves and let us know who will be presenting today.

Start with Petitioner.

MR. YOCHES: Yes, Robert Yoches from Finnegan for Petitioner.

JUDGE CHAGNON: And for Patent Owner?

MR. BAUGHMAN: Your Honor, Steve Baughman and Jim Davis for Patent Owner. And with us we have representatives from IP Bridge Han Xu and Mr. Ikegami.

JUDGE CHAGNON: Thank you.

Per the trial hearing order, each party has 60 minutes of time total today to present arguments. Petitioner will present first followed by Patent Owner. And Petitioner may reserve time to rebut any issues raised during Patent Owner's presentation today.

Please also note during your presentations Judge Fitzpatrick is unable to see the screen in the room so please make sure to identify the demonstrative exhibit by slide number that you're referring to, so he's able to follow along

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.

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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