## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

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AMAZON.COM, INC., AMAZON DIGITAL:

SERVICES, INC., AMAZON :

FULFILLMENT SERVICES, INC., :

HULU, LLC, NETFLIX, INC., and :

GOOGLE, LLC, :

Petitioners, :

v. : CASE IPR2017-00948

UNILOC LUXEMBOURG S.A., : CASE IPR2017-01665

Respondent. :

Telephonic conference

Silver Spring, Maryland

Thursday, December 21, 2017 - 10:32 a.m.

Reported by:

Cassandra E. Ellis, RPR

Job no: 20378

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|----|---|
| 1  | Hearing before Judge David C. McKone, Judge           |
| 2  | Barbara A. Parvis, and Judge Michelle N. Wormmeester, |
| 3  | held telephonically, pursuant to agreement, before    |
| 4  | Cassandra E. Ellis, Certified Court Reporter -        |
| 5  | Washington, Certified Shorthand Reporter - Hawai'i,   |
| 6  | Registered Professional Reporter, Certified Livenote  |
| 7  | Reporter, Realtime Systems Administrator, and Notary  |
| 8  | Public of The State of Maryland.                      |
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| 1  | APPEARANCES                   |
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|    |                               |

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| 7  |             | EXHIBITS |      |        |
| 8  |             | (None.)  |      |        |
| 9  |             |          |      |        |
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| 1  | PROCEEDINGS                        |        |
| 2  | JUDGE MCKONE: We are on the        |        |
| 3  | line for the IPR2017-948 and       |        |
| 4  | IPR2017-1665 matters. I have       |        |
| 5  | Judges Parvis and Wormmeester with |        |
| 6  | me on the call, it sounds like     |        |
| 7  | there is a court reporter on the   |        |
| 8  | call, is there I understand        |        |
| 9  | there's several petitioners in the |        |
| 10 | Amazon case, I'm going to refer to |        |
| 11 | them collectively as Amazon, for   |        |
| 12 | convenience.                       |        |
| 13 | Is there anyone on the line        |        |
| 14 | for petitioner Amazon? Okay, I'll  |        |
| 15 | take that as a no. Is there        |        |
| 16 | anyone on the line for petitioner  |        |
| 17 | Google?                            |        |
| 18 | MR. RENNER: Yes, Your              |        |
| 19 | Honor, this is Karl Renner, from   |        |
| 20 | Fish and Richardson, and I'm       |        |
| 21 | joined by Adam Shartzer.           |        |
| 22 | JUDGE MCKONE: Okay. Who            |        |
|    |                                    |        |

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|----|-----------------------------------|--------|
| 1  | will be doing the speaking today  |        |
| 2  | for Google?                       |        |
| 3  | MR. RENNER: Thank you, Your       |        |
| 4  | Honor, we'll probably both        |        |
| 5  | contribute, but Mr. Shartzer will |        |
| 6  | be take the lead on that.         |        |
| 7  | JUDGE MCKONE: Okay. Is            |        |
| 8  | there anyone on the line for      |        |
| 9  | patent owner Uniloc?              |        |
| 10 | MR. MANGRUM: Yes, Your            |        |
| 11 | Honor, good morning. This is      |        |
| 12 | Brett Mangrum, lead counsel for   |        |
| 13 | Uniloc, and I'll be doing the     |        |
| 14 | speaking today.                   |        |
| 15 | JUDGE MCKONE: Okay. Is            |        |
| 16 | there anyone else on the line for |        |
| 17 | patent owner?                     |        |
| 18 | MR. HUANG: Yes, Your Honor,       |        |
| 19 | this is Jeffrey Huang, for patent |        |
| 20 | owner Uniloc.                     |        |
| 21 | JUDGE MCKONE: Okay. I will        |        |
| 22 | assume that Mr. Mangrum will be   |        |
|    |                                   |        |

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|----|------------------------------------|--------|
| 1  | doing the speaking, unless you     |        |
| 2  | introduce yourself otherwise,      |        |
| 3  | Mr. Huang.                         |        |
| 4  | If there is anyone else on         |        |
| 5  | the line and wishes to speak       |        |
| 6  | please first identify yourself and |        |
| 7  | the party you represent.           |        |
| 8  | Now, which party has               |        |
| 9  | arranged for the court reporter?   |        |
| 10 | MR. RENNER: Your Honor,            |        |
| 11 | it's Google has arranged for the   |        |
| 12 | court reporter.                    |        |
| 13 | JUDGE MCKONE: Okay.                |        |
| 14 | Please, when you get a transcript, |        |
| 15 | file it as an exhibit in the case. |        |
| 16 | MR. RENNER: Yes, Your              |        |
| 17 | Honor. Thank you.                  |        |
| 18 | JUDGE MCKONE: Okay. So the         |        |
| 19 | reason why we are having this call |        |
| 20 | is Amazon filed a petition         |        |
| 21 | challenging the challenge patent   |        |
| 22 | in the 948 case, and after we      |        |
|    |                                    |        |

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|----|------------------------------------|--------|
| 1  | after we received a preliminary    |        |
| 2  | response in that case Google filed |        |
| 3  | another petition challenging the   |        |
| 4  | same patent in the 1665 case, on   |        |
| 5  | grounds it significantly           |        |
| 6  | overlapped with the the ground     |        |
| 7  | in the 948 case.                   |        |
| 8  | Patent owner, in its               |        |
| 9  | preliminary response in the 1665   |        |
| 10 | case, has raised 35 USC Section    |        |
| 11 | 325D as a defense, and is asking   |        |
| 12 | us to to deny the petition in      |        |
| 13 | 1665 for for section 325D.         |        |
| 14 | Now, as we stated in our           |        |
| 15 | our order of last week, we do see  |        |
| 16 | merit in the 325D defense, but we  |        |
| 17 | also have to weigh that against    |        |
| 18 | the if we were to deny it then     |        |
| 19 | Google would not have an           |        |
| 20 | opportunity to to challenge        |        |
| 21 | this patent on art that we've      |        |
| 22 | already said has a likelihood of   |        |
|    |                                    |        |

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| 1  | success.                           |        |
| 2  | So our thought was a joinder       |        |
| 3  | would be a possible compromise     |        |
| 4  | position between denying Google's  |        |
| 5  | petition outright and on one       |        |
| 6  | hand, and on the other hand        |        |
| 7  | subjecting the patent owner to     |        |
| 8  | serial attacks with similar art.   |        |
| 9  | So we asked the parties to         |        |
| 10 | meet and confer and determine      |        |
| 11 | whether they could agree to        |        |
| 12 | joinder and, if so, what the terms |        |
| 13 | of that joinder might look like.   |        |
| 14 | So our understanding is that       |        |
| 15 | the parties have not been able to  |        |
| 16 | reach agreement or at least not    |        |
| 17 | not entirely. For the purposes of  |        |
| 18 | this call is for us to understand  |        |
| 19 | what the parties' disagreement is  |        |
| 20 | and determine whether we ought to  |        |
| 21 | join the case, cases, or what the  |        |
| 22 | terms would be, or whether we      |        |
|    |                                    |        |

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|----|------------------------------------|---------|
| 1  | should just simply consider the    |         |
| 2  | 1665 petition and make a ruling on |         |
| 3  | that.                              |         |
| 4  | So we'll start with                |         |
| 5  | with with Google. So I assume,     |         |
| 6  | during my talking here, no one     |         |
| 7  | from Amazon has has joined, is     |         |
| 8  | that correct? Okay.                |         |
| 9  | So we'll start with                |         |
| 10 | petitioner, Google, because we     |         |
| 11 | need to start with someone.        |         |
| 12 | So as a result of the meet         |         |
| 13 | and confer does any party object   |         |
| 14 | to joinder in principal or is the  |         |
| 15 | dispute rather around, I guess,    |         |
| 16 | the terms of of a possible         |         |
| 17 | joinder?                           |         |
| 18 | MR. SHARTZER: Your Honor,          |         |
| 19 | this is Adam Shartzer, for Google, |         |
| 20 | and I can certainly address that.  |         |
| 21 | JUDGE MCKONE: Go ahead.            |         |
| 22 | MR. SHARTZER: I believe the        |         |
|    |                                    |         |

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|----|------------------------------------|--------|----|
| 1  | parties do not have a              |        |    |
| 2  | disagreement, in principal, with   |        |    |
| 3  | respect to joinder. As you         |        |    |
| 4  | suggested, there is, however,      |        |    |
| 5  | disagreement with respect to what  |        |    |
| 6  | that joinder looks like and the    |        |    |
| 7  | terms of it.                       |        |    |
| 8  | It is Google's position that       |        |    |
| 9  | it has brought forth substantially |        |    |
| 10 | and meaningfully different         |        |    |
| 11 | arguments with respect to in one   |        |    |
| 12 | ground overlapping art and with    |        |    |
| 13 | respect to Google's second ground  |        |    |
| 14 | some art did overlap but also a    |        |    |
| 15 | meaningfully different reference,  |        |    |
| 16 | the Colloso (phonetic) reference,  |        |    |
| 17 | and Google would like to have the  |        |    |
| 18 | benefit of carrying its arguments  |        |    |
| 19 | forward in a proceeding on the     |        |    |
| 20 | argument that it made with respect |        |    |
| 21 | to the references in its petition. |        |    |
| 22 | Google made arguments, for         |        |    |
|    |                                    |        |    |

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|----|------------------------------------|---------|---|
| 1  | instance, with respect to source   |         |   |
| 2  | code that is in the Domello        |         |   |
| 3  | (phonetic) reference, and there is |         |   |
| 4  | an expert declaration attached to  |         |   |
| 5  | Google's petition in support       |         |   |
| 6  | explaining what a person of        |         |   |
| 7  | ordinary skill would understand    |         |   |
| 8  | from that source code.             |         |   |
| 9  | Those                              |         |   |
| 10 | JUDGE MCKONE: I think, in          |         |   |
| 11 | our order, I made it clear that    |         |   |
| 12 | we're not here to reargue the 325D |         |   |
| 13 | issues.                            |         |   |
| 14 | MR. SHARTZER: Okay.                |         |   |
| 15 | JUDGE MCKONE: So my                |         |   |
| 16 | understanding of your position is  |         |   |
| 17 | Google wants to press the          |         |   |
| 18 | arguments that it made in its      |         |   |
| 19 | in its petition that are that      |         |   |
| 20 | it contends are substantially      |         |   |
| 21 | different from those pressed in    |         |   |
| 22 | the Amazon petition, is that is    |         |   |
|    |                                    |         |   |

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|----|------------------------------------|------|----|
| 1  | that, I guess, your position in a  |      |    |
| 2  | nutshell.                          |      |    |
| 3  | MR. RENNER: Yes, Your              |      |    |
| 4  | Honor this is Mr. Renner           |      |    |
| 5  | yes, Your Honor, that's correct.   |      |    |
| 6  | And I think the only reason to go  |      |    |
| 7  | down the path that we were just    |      |    |
| 8  | talking about is to help Your      |      |    |
| 9  | Honors, if it weren't apparent, to |      |    |
| 10 | note exactly that, that these are, |      |    |
| 11 | we think, materially different     |      |    |
| 12 | presentations of the grounds. And  |      |    |
| 13 | that speaks to whether or not      |      |    |
| 14 | there's a reason to concern        |      |    |
| 15 | ourselves with trying to put them  |      |    |
| 16 | on a different schedule, same      |      |    |
| 17 | schedule, and frankly, have the    |      |    |
| 18 | arguments come along with, but     |      |    |
| 19 | we'll let that rest as as          |      |    |
| 20 | you're noting, and maybe just talk |      |    |
| 21 | about the schedule that we         |      |    |
| 22 | proposed that's that's of          |      |    |
|    |                                    |      |    |

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|----|------------------------------------|---------|
| 1  | interest to you.                   |         |
| 2  | MR. MANGRUM: I would like          |         |
| 3  | to present the patent owner's      |         |
| 4  | position.                          |         |
| 5  | JUDGE MCKONE: I'm sorry,           |         |
| 6  | who's speaking?                    |         |
| 7  | MR. RENNER: This is Brett          |         |
| 8  | Mangrum for Uniloc, patent owner.  |         |
| 9  | JUDGE MCKONE: Okay. Well,          |         |
| 10 | I will I will I will let           |         |
| 11 | I will let you speak after         |         |
| 12 | after Google's had a chance to put |         |
| 13 | forth its position.                |         |
| 14 | MR. MANGRUM: But Your Honor        |         |
| 15 | asked whether or not we agreed, in |         |
| 16 | principal, to that joinder, and I  |         |
| 17 | wanted to answer that question,    |         |
| 18 | but we can but we can wait         |         |
| 19 | until Google has presented its     |         |
| 20 | JUDGE MCKONE: Please.              |         |
| 21 | MR. RENNER: And to that            |         |
| 22 | point, Your Honor, Mr. Renner      |         |
|    |                                    |         |

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|----|------------------------------------|------|----|
| 1  | again, our intentions in answering |      |    |
| 2  | that was only to suggest that both |      |    |
| 3  | parties came to one another with   |      |    |
| 4  | an expression of of what           |      |    |
| 5  | joinder might look like.           |      |    |
| 6  | And so our our take from           |      |    |
| 7  | that is that each party is willing |      |    |
| 8  | or at least amenable to            |      |    |
| 9  | considering joinder, it was really |      |    |
| 10 | the "what does it look like" is    |      |    |
| 11 | where we really had a hard time to |      |    |
| 12 | coming to terms with one another.  |      |    |
| 13 | So if we conveyed otherwise        |      |    |
| 14 | that's all our intention was       |      |    |
| 15 | there.                             |      |    |
| 16 | JUDGE MCKONE: Okay.                |      |    |
| 17 | MR. RENNER: But as to the          |      |    |
| 18 | schedule we proposed, and how      |      |    |
| 19 | joinder would look, if you're      |      |    |
| 20 | amenable to, we're happy to take   |      |    |
| 21 | you through that.                  |      |    |
| 22 | JUDGE MCKONE: Yes.                 |      |    |
|    |                                    |      |    |

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|----|------------------------------------|---------|
| 1  | MR. SHARTZER: This is Adam         |         |
| 2  | Shartzer, for Google. The          |         |
| 3  | schedule that we had proposed to   |         |
| 4  | Uniloc was one essentially where   |         |
| 5  | there would be a slight delay in   |         |
| 6  | the current proceeding between     |         |
| 7  | Uniloc and Amazon. We would then   |         |
| 8  | give Uniloc an opportunity to      |         |
| 9  | respond to the differences in the  |         |
| 10 | arguments made by Google. And      |         |
| 11 | then what would happen is,         |         |
| 12 | essentially, the schedule would    |         |
| 13 | pick back up with what we propose  |         |
| 14 | is the time about a five-week      |         |
| 15 | delay in the current deadlines.    |         |
| 16 | And when I say picked back         |         |
| 17 | up, once Uniloc files a response   |         |
| 18 | to Google's petition then Amazon   |         |
| 19 | and Google would simultaneously    |         |
| 20 | file a reply brief, about five     |         |
| 21 | weeks later, that would allow      |         |
| 22 | Amazon and Google to coordinate on |         |
|    |                                    |         |

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|----|------------------------------------|---------|
| 1  | a joint deposition, on a single    |         |
| 2  | day, so we're not taxing the       |         |
| 3  | Uniloc's declarants any more than  |         |
| 4  | would otherwise occur in a single  |         |
| 5  | joined proceeding.                 |         |
| 6  | And then, from there,              |         |
| 7  | essentially a five-week delay      |         |
| 8  | would roll through the rest of the |         |
| 9  | deadlines in the schedule, moving  |         |
| 10 | the hearing from early May to      |         |
| 11 | early June.                        |         |
| 12 | And then, from there, the          |         |
| 13 | board either would have            |         |
| 14 | approximately nine weeks to draft  |         |
| 15 | a final written decision or in the |         |
| 16 | joinder situation, as we've seen   |         |
| 17 | common, the board could take       |         |
| 18 | advantage of the the the           |         |
| 19 | additional time it could grant     |         |
| 20 | itself to issue a final written    |         |
| 21 | decision in a joinder situation.   |         |
| 22 | So that would                      |         |
|    |                                    |         |

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|----|------------------------------------|---------|
| 1  | JUDGE MCKONE: You are              |         |
| 2  | anticipating extending our         |         |
| 3  | schedule beyond the final written  |         |
| 4  | decision deadline in 948?          |         |
| 5  | MR. SHARTZER: It was a             |         |
| 6  | possibility. There was             |         |
| 7  | essentially we move the hearing    |         |
| 8  | about a month, which would         |         |
| 9  | certainly compress the amount of   |         |
| 10 | time that the board had to issue a |         |
| 11 | final written decision, and to the |         |
| 12 | extent the board needed more time  |         |
| 13 | than nine weeks that would         |         |
| 14 | certainly be an option of the      |         |
| 15 | board to to extend the schedule    |         |
| 16 | if, you know, at the board's       |         |
| 17 | discretion.                        |         |
| 18 | JUDGE MCKONE: Now, was             |         |
| 19 | was Amazon or the Amazon           |         |
| 20 | petitioners part of the meet and   |         |
| 21 | confer process?                    |         |
| 22 | MR. SHARTZER: Yes, Your            |         |
|    |                                    |         |

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|----|------------------------------------|---------|
| 1  | Honor, they were.                  |         |
| 2  | JUDGE MCKONE: Did they,            |         |
| 3  | since they're apparently not on    |         |
| 4  | the line today, were they did      |         |
| 5  | they agree or disagree with        |         |
| 6  | extending the final written        |         |
| 7  | decision deadline in the 948 case? |         |
| 8  | MR. SHARTZER: Your Honor,          |         |
| 9  | they were neutral. They were not   |         |
| 10 | going to take a position. But      |         |
| 11 | they appeared to be fine with a    |         |
| 12 | schedule that included additional  |         |
| 13 | time just for the board to issue a |         |
| 14 | single final written decision that |         |
| 15 | could handle both cases moving     |         |
| 16 | forward.                           |         |
| 17 | JUDGE MCKONE: Okay. So to          |         |
| 18 | summarize your Google's            |         |
| 19 | position, if there was a joinder   |         |
| 20 | you would you would prefer         |         |
| 21 | joinder that allowed you to        |         |
| 22 | present press your additional      |         |
|    |                                    |         |

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|----|------------------------------------|---------|
| 1  | arguments presented in the 1665    |         |
| 2  | case that were not presented in    |         |
| 3  | the 948 case, and you would        |         |
| 4  | propose approximately a five-week  |         |
| 5  | delay in the deadlines in order to |         |
| 6  | allow for those issues to get      |         |
| 7  | vetted, and that might result in   |         |
| 8  | an extension of the final written  |         |
| 9  | decision deadline in 948; is that  |         |
| 10 | accurate?                          |         |
| 11 | MR. SHARTZER: Yes, Your            |         |
| 12 | Honor, that's accurate. There      |         |
| 13 | again, there is case law support   |         |
| 14 | for that in the Enzymotec          |         |
| 15 | proceeding, it's IPR2014-00556,    |         |
| 16 | paper 19, in that particular       |         |
| 17 | decision a board determined to     |         |
| 18 | join a second filed petition and   |         |
| 19 | allowed additional arguments to be |         |
| 20 | brought into that proceeding,      |         |
| 21 | detecting that there was neither   |         |
| 22 | language in section 311 or 315C    |         |
|    |                                    |         |

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|----|------------------------------------|---------|
| 1  | that required the board to limit   |         |
| 2  | the second petitioner to just the  |         |
| 3  | issues of the first petition.      |         |
| 4  | JUDGE MCKONE: Okay.                |         |
| 5  | Anything else, then, Google,       |         |
| 6  | before I turn to the patent owner? |         |
| 7  | MR. RENNER: One last, this         |         |
| 8  | is Mr. Renner again, just one last |         |
| 9  | note, I think you maybe picked up  |         |
| 10 | on this, I want to make sure it's  |         |
| 11 | clear, in joinder situations we've |         |
| 12 | seen articulated is that the       |         |
| 13 | one-year bar is not applicable.    |         |
| 14 | So that if the nine weeks          |         |
| 15 | weren't sufficient we don't        |         |
| 16 | believe that the proposal that     |         |
| 17 | we're making requires the board to |         |
| 18 | go into its six-month period that  |         |
| 19 | is also allowable, it's not        |         |
| 20 | it's not really an invasion of     |         |
| 21 | that period, it's just simply the  |         |
| 22 | joinder cases are outside of the   |         |
|    |                                    |         |

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|----|------------------------------------|---------|
| 1  | typical schedule that's imposed on |         |
| 2  | the board is is the and yet        |         |
| 3  | if nine weeks were sufficient then |         |
| 4  | maybe the one year could still be  |         |
| 5  | observed, in any event.            |         |
| 6  | JUDGE MCKONE: Okay.                |         |
| 7  | MR. RENNER: Thank you, Your        |         |
| 8  | Honor.                             |         |
| 9  | JUDGE MCKONE: Would you            |         |
| 10 | envision a change in the hearing   |         |
| 11 | date, then, in the 948 case?       |         |
| 12 | MR. RENNER: We do, as              |         |
| 13 | Mr. Shartzer has pointed out, we   |         |
| 14 | think the five weeks that we're    |         |
| 15 | talking about, that allows for     |         |
| 16 | patent owner to respond to the     |         |
| 17 | issues that are newly raised here, |         |
| 18 | and then get our schedule          |         |
| 19 | consistent with with each of       |         |
| 20 | the proceedings thereafter.        |         |
| 21 | We think rather than               |         |
| 22 | compressing later parts of the     |         |
|    |                                    |         |

|    |                                    | Page 23 |
|----|------------------------------------|---------|
| 1  | schedule that five weeks would, if |         |
| 2  | it could carry through, it would   |         |
| 3  | just shift the oral argument by    |         |
| 4  | the same five weeks.               |         |
| 5  | If there were opportunities        |         |
| 6  | to compress later on we would be   |         |
| 7  | open to considering them, of       |         |
| 8  | course, but we thought the         |         |
| 9  | simplest would be to carry that    |         |
| 10 | through.                           |         |
| 11 | MR. SHARTZER: And to be            |         |
| 12 | clear this is Adam Shartzer for    |         |
| 13 | Google, again the schedule that    |         |
| 14 | we proposed to Uniloc would move   |         |
| 15 | the hearing from May 8th, to June  |         |
| 16 | 6th, 2018, of course, that's       |         |
| 17 | obviously subject to the board's   |         |
| 18 | availability, which we didn't have |         |
| 19 | the benefit of when we posed the   |         |
| 20 | schedule, but we are proposing     |         |
| 21 | what is a somewhat limited amount  |         |
| 22 | of delay in order to sync the      |         |
|    |                                    |         |

|    |                                    | Page 24 |
|----|------------------------------------|---------|
| 1  | schedules.                         |         |
| 2  | JUDGE MCKONE: All right.           |         |
| 3  | Patent owner, what is you've       |         |
| 4  | been waiting patiently, here, what |         |
| 5  | is your position?                  |         |
| 6  | MR. RENNER: Yes, good              |         |
| 7  | morning, Your Honor. Again, thank  |         |
| 8  | you for the opportunity to be      |         |
| 9  | heard today.                       |         |
| 10 | I wanted to just clarify one       |         |
| 11 | point from one of the original     |         |
| 12 | questions, and that is, Uniloc     |         |
| 13 | does not necessarily concede       |         |
| 14 | joinder is appropriate, here.      |         |
| 15 | However, in the interest of        |         |
| 16 | compromise we were prepared and    |         |
| 17 | did discuss the possibility of     |         |
| 18 | joinder under certain terms, and   |         |
| 19 | offered a terms of joinder to the  |         |
| 20 | opposing counsel during the meet   |         |
| 21 | and confer.                        |         |
| 22 | However, we just point out         |         |
|    |                                    |         |

|    |                                    | Page 25 |
|----|------------------------------------|---------|
| 1  | that in this instance the as       |         |
| 2  | the board noted in its order the   |         |
| 3  | deadline is passed for joinder.    |         |
| 4  | So we're not necessarily conceding |         |
| 5  | joinder is correct. However        |         |
| 6  | JUDGE MCKONE: Well, the            |         |
| 7  | deadline is for petitioner to      |         |
| 8  | request joinder.                   |         |
| 9  | MR. RENNER: Exactly. But           |         |
| 10 | in view of the board's             |         |
| 11 | instructions I think we met and    |         |
| 12 | conferred and provided a proposal. |         |
| 13 | I would like to discuss the terms  |         |
| 14 | of that proposal.                  |         |
| 15 | So petitioner's offered a          |         |
| 16 | case today, they did not offer a   |         |
| 17 | case during the meet and confer,   |         |
| 18 | so this is the first time that     |         |
| 19 | they brought up any case law that  |         |
| 20 | allegedly supports their position. |         |
| 21 | However, for our meet and          |         |
| 22 | confer we did cite to them, and    |         |
|    |                                    |         |

|    |                                    | Page 26 |
|----|------------------------------------|---------|
| 1  | collectively, the group, pulled up |         |
| 2  | a case and read from it during the |         |
| 3  | meet and confer that supports      |         |
| 4  | patent owner's position.           |         |
| 5  | So our position is this: To        |         |
| 6  | the extent joinder is allowed      |         |
| 7  | petitioner should take a limited   |         |
| 8  | understudy role. The understudy    |         |
| 9  | role is a term I'm sure the board  |         |
| 10 | is familiar with, it's been        |         |
| 11 | applied in other cases.            |         |
| 12 | Now, there's actually a case       |         |
| 13 | with surprisingly similar facts,   |         |
| 14 | it is, and this is the case that   |         |
| 15 | we brought up as the group during  |         |
| 16 | the call, it's case IPR2016-00089, |         |
| 17 | it's Innopharma Licensing versus   |         |
| 18 | Senju Pharmaceutical, and in that  |         |
| 19 | case here's just some facts, there |         |
| 20 | was a follow-on petition that      |         |
| 21 | essentially had the same ground as |         |
| 22 | the original petition, but then    |         |
|    |                                    |         |

|    |                                    | Page 27 |
|----|------------------------------------|---------|
| 1  | they added additional grounds, and |         |
| 2  | the board had not yet reviewed on  |         |
| 3  | those additional grounds. So the   |         |
| 4  | same question came up, should we   |         |
| 5  | join those proceedings and what    |         |
| 6  | should be the parameters of        |         |
| 7  | joinder.                           |         |
| 8  | And in that case, in the           |         |
| 9  | answer to facilitating joinder,    |         |
| 10 | what was decided is that the       |         |
| 11 | follow-on petitioners would take   |         |
| 12 | an understudy role and that the    |         |
| 13 | joinder they would be joined to    |         |
| 14 | the original petition under the    |         |
| 15 | same grounds instituted in the     |         |
| 16 | original petition petition,        |         |
| 17 | and the new grounds would          |         |
| 18 | would would not be considered      |         |
| 19 | by the board.                      |         |
| 20 | And there was reasons for          |         |
| 21 | that, I mean, there's some policy  |         |
| 22 | concerns, and the board's already  |         |
|    |                                    |         |

|    |                                    | Page 28 |
|----|------------------------------------|---------|
| 1  | noted that in its order, here in   |         |
| 2  | this instance, and in the prior    |         |
| 3  | instance, the petitioners have     |         |
| 4  | Google has taken has the           |         |
| 5  | benefit of patent owner's response |         |
| 6  | to the original petition. And      |         |
| 7  | since we've retooled and revamped  |         |
| 8  | their petition based on our        |         |
| 9  | response, so it's kind of like a   |         |
| 10 | second follow-on that's an         |         |
| 11 | extension of that briefing,        |         |
| 12 | almost.                            |         |
| 13 | And then we one of the             |         |
| 14 | problems we have with the proposal |         |
| 15 | of opposing counsel is that it's   |         |
| 16 | really not a request for joinder,  |         |
| 17 | it's almost, in a sense, a reverse |         |
| 18 | joinder, where the follow-on       |         |
| 19 | petition controls the schedule and |         |
| 20 | the follow-on petitioners          |         |
| 21 | articulate and argue based on      |         |
| 22 | grounds that have not even been    |         |
|    |                                    |         |

|    |                                    | Page 29 |
|----|------------------------------------|---------|
| 1  | instituted by the board.           |         |
| 2  | And I want to we had a             |         |
| 3  | call earlier in this matter, with  |         |
| 4  | the board, when we discussed how   |         |
| 5  | to proceed in in the instance      |         |
| 6  | of a contingent notice to amend,   |         |
| 7  | which the board likely recalls.    |         |
| 8  | And there it was decided that we   |         |
| 9  | were instructed that we would      |         |
| 10 | proceed. So I'm talking about the  |         |
| 11 | original case, we would proceed in |         |
| 12 | the original case according to the |         |
| 13 | original scheduling order.         |         |
| 14 | So pursuant to those               |         |
| 15 | instructions patent owner filed    |         |
| 16 | its contingent motion to amend,    |         |
| 17 | and its formal response in the     |         |
| 18 | original trial, so I'm talking     |         |
| 19 | about the 948 on timeliness. We    |         |
| 20 | timely filed pursuant to that      |         |
| 21 | deadline.                          |         |
| 22 | Under this proposed revised        |         |
|    |                                    |         |

|    |                                    | Page 30 |
|----|------------------------------------|---------|
| 1  | schedule the response, to that     |         |
| 2  | motion to amend, the opposition    |         |
| 3  | would effectively be given an      |         |
| 4  | additional five weeks. So not      |         |
| 5  | only is it a reverse joinder       |         |
| 6  | scenario it's also a scenario      |         |
| 7  | where patent owner met their       |         |
| 8  | deadline and then and when we      |         |
| 9  | tried to just buy the fact that    |         |
| 10 | there will be additional five      |         |
| 11 | weeks for the in the original      |         |
| 12 | case for the petitioners to then   |         |
| 13 | respond.                           |         |
| 14 | And so the the delaying            |         |
| 15 | the schedule, and having a reverse |         |
| 16 | joinder where the follow-on        |         |
| 17 | petitioners essentially control,   |         |
| 18 | not take an understudy role but    |         |
| 19 | take the lead role, and introduce  |         |
| 20 | new arguments that haven't even    |         |
| 21 | been instituted, we think, is just |         |
| 22 | inconsistent with the case we      |         |
|    |                                    |         |

|    |                                    | Page 31 |
|----|------------------------------------|---------|
| 1  | cited and highly prejudicial to    |         |
| 2  | the patent owner.                  |         |
| 3  | JUDGE MCKONE: Okay. Now,           |         |
| 4  | as between us instituting on the   |         |
| 5  | new the 1665 petition, and         |         |
| 6  | setting the separate schedule for  |         |
| 7  | that case, and joinder of 1665 to  |         |
| 8  | the 948 case, with the new issues, |         |
| 9  | and setting a combined schedule    |         |
| 10 | there, which would be, I guess,    |         |
| 11 | patent owner's preference, and to  |         |
| 12 | make clear, we haven't made any    |         |
| 13 | decisions on the merits of the     |         |
| 14 | 1665 petition yet.                 |         |
| 15 | MR. MANGRUM: Understood,           |         |
| 16 | and I appreciate the question      |         |
| 17 | allowing us to respond to that, we |         |
| 18 | would prefer to keep, to the       |         |
| 19 | extent the trial's even instituted |         |
| 20 | on the new grounds, to keep them   |         |
| 21 | separate. We believe they're       |         |
| 22 | separate issues. And it's in       |         |
|    |                                    |         |

|    |                                    | Page 32 |
|----|------------------------------------|---------|
| 1  | interest to my client to proceed   |         |
| 2  | in the original case as            |         |
| 3  | expeditiously as possible.         |         |
| 4  | JUDGE MCKONE: So you would         |         |
| 5  | prefer, if we decide we ought to   |         |
| 6  | go forward on the 1665 case, you   |         |
| 7  | would prefer that to just proceed  |         |
| 8  | on its own separate schedule?      |         |
| 9  | MR. MANGRUM: That is               |         |
| 10 | correct.                           |         |
| 11 | JUDGE MCKONE: Okay.                |         |
| 12 | Does does Google have anything     |         |
| 13 | else? Actually, before Google,     |         |
| 14 | patent owner, do you have anything |         |
| 15 | else to say on the issue?          |         |
| 16 | MR. MANGRUM: No, Your              |         |
| 17 | Honor.                             |         |
| 18 | JUDGE MCKONE: Okay. Google         |         |
| 19 | do you have any response?          |         |
| 20 | MR. RENNER: Your Honor,            |         |
| 21 | just to Uniloc's final point,      |         |
| 22 | there, to your question regarding  |         |
|    |                                    |         |

|    |                                    | Page 33 |
|----|------------------------------------|---------|
| 1  | proceeding under a separate        |         |
| 2  | schedule or a joined schedule, you |         |
| 3  | know, certainly we we              |         |
| 4  | approached the issue of joinder    |         |
| 5  | with Uniloc because the board      |         |
| 6  | requested us to do that.           |         |
| 7  | If it's Uniloc's preference        |         |
| 8  | to proceed separately, you know,   |         |
| 9  | certainly, you know, it sounds     |         |
| 10 | like that is their preference, and |         |
| 11 | there is precedent for that, the   |         |
| 12 | 3Shape case, which actually came   |         |
| 13 | after the Innopharma case, so the  |         |
| 14 | 3Shape is IPR2016-00481, in legal  |         |
| 15 | paper number 12, 3Shape was a      |         |
| 16 | was a third petitioner in line,    |         |
| 17 | that shared a 102 ground with all  |         |
| 18 | three petitions that had been      |         |
| 19 | filed.                             |         |
| 20 | There the patent owner had         |         |
| 21 | argued that 325D should apply, but |         |
| 22 | the board rejected that argument,  |         |
|    |                                    |         |

|    |                                   | Page 34 |
|----|-----------------------------------|---------|
| 1  | and and it moved forward on       |         |
| 2  | the the difference the            |         |
| 3  | the overlapping grounds and the   |         |
| 4  | different grounds, essentially    |         |
| 5  | allowing the parties to proceed   |         |
| 6  | separately and not detecting any  |         |
| 7  | type of 325D issues.              |         |
| 8  | And so I just wanted to           |         |
| 9  | supplement the record, at least   |         |
| 10 | with that case, and say that      |         |
| 11 | certainly if the board's inclined |         |
| 12 | to institute and move forward     |         |
| 13 | separately on Google's petition   |         |
| 14 | that is something that Google is  |         |
| 15 | amenable to, and for which there  |         |
| 16 | is support.                       |         |
| 17 | MR. MANGRUM: And, Your            |         |
| 18 | Honor, this is Brett Mangrum, for |         |
| 19 | patent owner, I just wanted to    |         |
| 20 | clarify an earlier answer, if I   |         |
| 21 | understood the question. So there |         |
| 22 | is essentially there's multiple   |         |
|    |                                   |         |

|    |                                   | Page 35 |
|----|-----------------------------------|---------|
| 1  | options, here.                    |         |
| 2  | The patent owner's                |         |
| 3  | preference is actually joinder,   |         |
| 4  | for the reasons articulated       |         |
| 5  | earlier, but joinder under the    |         |
| 6  | limited understudy role. We       |         |
| 7  | believe that serves everyone's    |         |
| 8  | interests. And and and            |         |
| 9  | applying the same understudy role |         |
| 10 | conditions set forth in the       |         |
| 11 | 2016-89 case, that's our          |         |
| 12 | preference.                       |         |
| 13 | But if if the question            |         |
| 14 | is, essentially, what I'm told is |         |
| 15 | a reverse joinder that Google's   |         |
| 16 | proposing or or proceed           |         |
| 17 | independently in the different    |         |
| 18 | matter, that the reverse joinder  |         |
| 19 | we feel is just highly            |         |
| 20 | prejudicial.                      |         |
| 21 | So if that's the question         |         |
| 22 | then we believe the proceedings   |         |
|    |                                   |         |

|    |                                    | Page 36 |
|----|------------------------------------|---------|
| 1  | should be kept and in the event    |         |
| 2  | that the board decides to          |         |
| 3  | institute, if that's the question  |         |
| 4  | we believe it should be            |         |
| 5  | independent or separate.           |         |
| 6  | JUDGE MCKONE: To summarize,        |         |
| 7  | it's patent owner's position that  |         |
| 8  | if we should consider if we go     |         |
| 9  | forward with Google's new issues   |         |
| 10 | you prefer that it go forward in a |         |
| 11 | separate case on a separate        |         |
| 12 | schedule?                          |         |
| 13 | MR. MANGRUM: That's                |         |
| 14 | correct.                           |         |
| 15 | JUDGE MCKONE: Okay.                |         |
| 16 | MR. MANGRUM: And in the            |         |
| 17 | event the board is inclined to     |         |
| 18 | consider a joinder under the same  |         |
| 19 | parameters as the Innopharma,      |         |
| 20 | where there is joinder, but        |         |
| 21 | there's no new issues, there would |         |
| 22 | be essentially joinder on the      |         |
|    |                                    |         |

|    |                                    | Page 37 |
|----|------------------------------------|---------|
| 1  | original petitions, the 948        |         |
| 2  | petition, that would actually be   |         |
| 3  | our preference. We believe it      |         |
| 4  | serves all interests.              |         |
| 5  | MR. RENNER: Your Honor,            |         |
| 6  | counsel for Google, if you have    |         |
| 7  | if we may say another word?        |         |
| 8  | JUDGE MCKONE: Okay.                |         |
| 9  | MR. RENNER: Sir, this is           |         |
| 10 | Mr. Renner again, and two          |         |
| 11 | comments, one is that of all of    |         |
| 12 | the options prior to, that is the  |         |
| 13 | option that we actually least      |         |
| 14 | prefer, a ride-along joinder. In   |         |
| 15 | the case that's been cited, the    |         |
| 16 | Innopharma case, we think is       |         |
| 17 | distinct. We think that the        |         |
| 18 | understudy role that was described |         |
| 19 | in that case is wholly             |         |
| 20 | inappropriate here.                |         |
| 21 | In that case the record            |         |
| 22 | reflects that even the petitioner  |         |
|    |                                    |         |

|    |                                   | Page 3 | 38 |
|----|-----------------------------------|--------|----|
| 1  | that was second filing classified |        |    |
| 2  | the grounds they were presenting  |        |    |
| 3  | as essentially the same as those  |        |    |
| 4  | grounds that had earlier been     |        |    |
| 5  | provided. In our case, as you     |        |    |
| 6  | heard Mr. Shartzer began our talk |        |    |
| 7  | today, we think that the          |        |    |
| 8  | presentation and the application  |        |    |
| 9  | of the art is quite different in  |        |    |
| 10 | our petition as it relates to the |        |    |
| 11 | first filed petition.             |        |    |
| 12 | So we think the Innopharma        |        |    |
| 13 | case is very specific on that     |        |    |
| 14 | point and submits material        |        |    |
| 15 | distinction.                      |        |    |
| 16 | And then as to the other two      |        |    |
| 17 | grounds or two approaches we just |        |    |
| 18 | want to see this done as          |        |    |
| 19 | efficiently and effectively as    |        |    |
| 20 | possible.                         |        |    |
| 21 | So we're amenable to Your         |        |    |
| 22 | Honor's whatever discretion would |        |    |
|    |                                   |        |    |

|    |                                    | Page 39 |
|----|------------------------------------|---------|
| 1  | have, but we're amenable to either |         |
| 2  | approach that is a separately      |         |
| 3  | conducted proceeding, where the    |         |
| 4  | material differences can be        |         |
| 5  | vetted, we think most efficiently, |         |
| 6  | again, in this forum, since the    |         |
| 7  | board is taking this up as opposed |         |
| 8  | to a later different forum.        |         |
| 9  | But alternatively, if we           |         |
| 10 | could have a schedule that is      |         |
| 11 | consolidated in the way that we've |         |
| 12 | described we think that's a fair   |         |
| 13 | way to efficiently move forward    |         |
| 14 | here, as well.                     |         |
| 15 | JUDGE MCKONE: Okay.                |         |
| 16 | MR. MANGRUM: Your Honor,           |         |
| 17 | this is Brett Mangrum.             |         |
| 18 | JUDGE MCKONE: Hold on, I'll        |         |
| 19 | give you another chance in a       |         |
| 20 | moment.                            |         |
| 21 | So for Google, as between          |         |
| 22 | joinder and an understudy role     |         |
|    |                                    |         |

|    |                                    | D = ~ = = | 40  |
|----|------------------------------------|-----------|-----|
| 1  | with no now issues and outright    | Page      | 4 U |
|    | with no new issues, and outright   |           |     |
| 2  | denial of Google's petition,       |           |     |
| 3  | Google, do you have a preference   |           |     |
| 4  | as between those two?              |           |     |
| 5  | MR. RENNER: Sorry, I I             |           |     |
| 6  | think I was expecting the question |           |     |
| 7  | to be a little different. Can you  |           |     |
| 8  | repeat it just to make sure I'm    |           |     |
| 9  | getting it right?                  |           |     |
| 10 | JUDGE MCKONE: As between           |           |     |
| 11 | joinder with the 984 case, under   |           |     |
| 12 | the terms of the 948 case, as an   |           |     |
| 13 | understudy, in the understudy      |           |     |
| 14 | role, as between that and outright |           |     |
| 15 | denial of Google's petition under  |           |     |
| 16 | 325D, does Google have a           |           |     |
| 17 | preference?                        |           |     |
| 18 | MR. SHARTZER: Well, Your           |           |     |
| 19 | Honor, it's it is not something    |           |     |
| 20 | that we have discussed with Google |           |     |
| 21 | and our client, there is precedent |           |     |
| 22 | in the 3Shape case for moving      |           |     |
|    |                                    |           |     |

|    |                                    | Page 41 |
|----|------------------------------------|---------|
| 1  | forward on substantial grounds in  |         |
| 2  | a separate proceeding.             |         |
| 3  | JUDGE MCKONE: We understand        |         |
| 4  | that, and that's one of the things |         |
| 5  | we will be considering, but one of |         |
| 6  | our other options is to deny the   |         |
| 7  | 1616 1665 petition under           |         |
| 8  | section 325D.                      |         |
| 9  | If we reach the conclusion         |         |
| 10 | that that that that ought to       |         |
| 11 | be that that's the correct         |         |
| 12 | result, would you oppose joinder   |         |
| 13 | to the 948 in an understudy role   |         |
| 14 | in order to protect Google in the  |         |
| 15 | event that Amazon settles?         |         |
| 16 | MR. RENNER: Your Honor,            |         |
| 17 | we're not in a position to be able |         |
| 18 | to accept a joinder under those    |         |
| 19 | particular terms. And we do have,  |         |
| 20 | you know our second ground in      |         |
| 21 | our petition is certainly          |         |
| 22 | different from anything that has   |         |
|    |                                    |         |

| ·  |                                   | Page | 42 |
|----|-----------------------------------|------|----|
| 1  | been instituted in the current    |      |    |
| 2  | proceeding, and with Amazon, and  |      |    |
| 3  | at minimum we would think that    |      |    |
| 4  | that grounds ought to be heard    |      |    |
| 5  | certainly as a matter of, you     |      |    |
| 6  | know, fairness and certainly for  |      |    |
| 7  | completeness of the record.       |      |    |
| 8  | MR. SHARTZER: And Your            |      |    |
| 9  | Honor, you seem to be in command  |      |    |
| 10 | of this, I'll say it just to make |      |    |
| 11 | sure it's on the table, we do     |      |    |
| 12 | think, as a matter of policy,     |      |    |
| 13 | these proceedings being ones that |      |    |
| 14 | are affected to relieve district  |      |    |
| 15 | courts that otherwise could be    |      |    |
| 16 | held more efficiently here, we    |      |    |
| 17 | have some concerns over over      |      |    |
| 18 | that kind of approach, however,   |      |    |
| 19 | because it seems like that might  |      |    |
| 20 | create the most inefficiency.     |      |    |
| 21 | JUDGE MCKONE: Okay. Sounds        |      |    |
| 22 | like a moment ago patent owner    |      |    |
|    |                                   |      |    |

|    |                                    | Page 43 | 3 |
|----|------------------------------------|---------|---|
| 1  | wanted to say one more thing.      |         |   |
| 2  | MR. MANGRUM: Yes, Your             |         |   |
| 3  | Honor, and thank you for the       |         |   |
| 4  | opportunity.                       |         |   |
| 5  | I wanted to correct the            |         |   |
| 6  | record of something, in attempting |         |   |
| 7  | to distinguish Innopharma          |         |   |
| 8  | Licensing versus Senju             |         |   |
| 9  | Pharmaceutical case IPR2016-0089,  |         |   |
| 10 | paper number 13, the counsel for   |         |   |
| 11 | petitioner seems to suggest that   |         |   |
| 12 | there were no additional grounds   |         |   |
| 13 | authorized or or considered in     |         |   |
| 14 | the follow-on petition, and that's |         |   |
| 15 | just not correct.                  |         |   |
| 16 | I'm reading from paper             |         |   |
| 17 | number 13, the board said, and I   |         |   |
| 18 | quote, Innopharma's petition       |         |   |
| 19 | includes additional grounds not    |         |   |
| 20 | authorized in the inter partes     |         |   |
| 21 | review instituted in the loop in   |         |   |
| 22 | IPR.                               |         |   |
|    |                                    |         |   |

|    |                                    | Page 44 |
|----|------------------------------------|---------|
| 1  | So and I I apologize,              |         |
| 2  | I'm done with the page, because I  |         |
| 3  | had screen scraped this, but       |         |
| 4  | that's from paper 13, it's very    |         |
| 5  | clear in that matter that there    |         |
| 6  | were new grounds. And so the       |         |
| 7  | point of distinction is really     |         |
| 8  | illusory.                          |         |
| 9  | And the second point I want        |         |
| 10 | to make is in good faith Uniloc    |         |
| 11 | did its research before the meet   |         |
| 12 | and confer, and provided this case |         |
| 13 | to opposing counsel during the     |         |
| 14 | meet and confer, and then gave     |         |
| 15 | opposing counsel the opportunity   |         |
| 16 | to pull it up during the meet and  |         |
| 17 | confer and read it and consider    |         |
| 18 | it.                                |         |
| 19 | Here, opposing counsel's           |         |
| 20 | lied behind the law, and for the   |         |
| 21 | first time during the call         |         |
| 22 | introduced cases without providing |         |
|    |                                    |         |

|    |                                    | Page | 45 |
|----|------------------------------------|------|----|
| 1  | any notice to patent owner that it |      |    |
| 2  | was going to even present these    |      |    |
| 3  | cases or arguments with respect to |      |    |
| 4  | this case. And it's kind of a      |      |    |
| 5  | prejudicial strategy to, you know, |      |    |
| 6  | for the first time, during a call, |      |    |
| 7  | introducing case law.              |      |    |
| 8  | To the extent the board's          |      |    |
| 9  | going to even consider that Uniloc |      |    |
| 10 | would appreciate the opportunity   |      |    |
| 11 | to maybe even have a briefing or   |      |    |
| 12 | discussion of that further. It's   |      |    |
| 13 | just it we we                      |      |    |
| 14 | MR. RENNER: Your Honor,            |      |    |
| 15 | we're not asking for any           |      |    |
| 16 | additional briefing here.          |      |    |
| 17 | MR. MANGRUM: Okay. I just          |      |    |
| 18 | want to at least make the record   |      |    |
| 19 | clear of the circumstances of how  |      |    |
| 20 | Uniloc is prepared to discuss case |      |    |
| 21 | law in our meet and confer and we  |      |    |
| 22 | had no cases cited to us during    |      |    |
|    |                                    |      |    |

|    |                                    | Page | 46 |
|----|------------------------------------|------|----|
| 1  | the meet and confer by opposing    |      |    |
| 2  | counsel.                           |      |    |
| 3  | MR. RENNER: Your Honor, on         |      |    |
| 4  | that note, if I may, I'd just like |      |    |
| 5  | to make sure you're apprised of    |      |    |
| 6  | what the petitioner said about its |      |    |
| 7  | grounds.                           |      |    |
| 8  | JUDGE MCKONE: I I don't            |      |    |
| 9  | need to go over the back and forth |      |    |
| 10 | of your meet and confer. I think   |      |    |
| 11 | the parties have put forth what    |      |    |
| 12 | their what their positions are     |      |    |
| 13 | on this point.                     |      |    |
| 14 | MR. RENNER: Thank you.             |      |    |
| 15 | And and I just cite to page        |      |    |
| 16 | three, paper one in the same case, |      |    |
| 17 | in lead up to Your Honor's review. |      |    |
| 18 | I'm happy to comment on it but I   |      |    |
| 19 | will leave it at that.             |      |    |
| 20 | JUDGE MCKONE: Okay. So             |      |    |
| 21 | we're not going to give a decision |      |    |
| 22 | today. At this point we're going   |      |    |
|    |                                    |      |    |

|    |                                  | Page 47 |
|----|----------------------------------|---------|
| 1  | to fully consider the 1665       |         |
| 2  | petition and consider whether or |         |
| 3  | not the 325D argument raised by  |         |
| 4  | patent owner has merit.          |         |
| 5  | And we'll also consider the      |         |
| 6  | party's argument today for and   |         |
| 7  | against joinder if if we reach   |         |
| 8  | the point where we think we need |         |
| 9  | to consider that. And it's been  |         |
| 10 | helpful today to hear what your  |         |
| 11 | positions are.                   |         |
| 12 | And Google, do you have any      |         |
| 13 | other anything else to say on    |         |
| 14 | these issues?                    |         |
| 15 | MR. RENNER: No, thank you,       |         |
| 16 | Your Honor. I appreciate the     |         |
| 17 | time.                            |         |
| 18 | JUDGE MCKONE: Okay. Patent       |         |
| 19 | owner, do you have anything else |         |
| 20 | to say on these issues?          |         |
| 21 | MR. MANGRUM: No, Your            |         |
| 22 | Honor. Again, thank you for the  |         |
|    |                                  |         |

| 1 opportunity to be here.            |  |
|--------------------------------------|--|
|                                      |  |
| 2 JUDGE MCKONE: Okay. We'll          |  |
| 3 issue decisions on these issues in |  |
| 4 due course, as soon as we can,     |  |
| 5 and and with that, this call is    |  |
| 6 adjourned. Thank you very much.    |  |
| 7 (Whereupon, the hearing was        |  |
| 8 adjourned at 11:07 a.m.)           |  |
| 9                                    |  |
| 10                                   |  |
| 11                                   |  |
| 12                                   |  |
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| 22                                   |  |
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| 1  | CERTIFICATE OF SHORTHAND REPORTER - NOTARY PUBLIC      |
| 2  | I, Cassandra E. Ellis, Registered Professional         |
| 3  | Reporter and Notary Public, the officer before whom    |
| 4  | the foregoing proceedings were taken, do hereby        |
| 5  | certify that the foregoing transcript is a true and    |
| 6  | correct record of the proceedings; that said           |
| 7  | proceedings were taken by me stenographically and      |
| 8  | thereafter reduced to typewriting under my             |
| 9  | supervision; and that I am neither counsel for,        |
| 10 | related to, nor employed by any of the parties to this |
| 11 | case and have no interest, financial or otherwise, in  |
| 12 | its outcome.   |
| 13 | IN WITNESS WHEREOF, I have hereunto set my hand        |
| 14 | and affixed my signature this 22nd day of December     |
| 15 | 2017.  |
| 16 | My commission expires:                                 |
| 17 | December 14, 2022                                      |
| 18 |  |
| 19 |  |
| 20 | CASSANDRA E. ELLIS, CSR-HI, CCR-WA, CLR, RPR           |
| 21 | REALTIME SYSTEMS ADMINISTRATOR                         |
| 22 | NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA      |
|    |  |

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