

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD  
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FLUIDMASTER, INC.

Petitioner,

v.

DANCO, INC.

Patent Owner.  
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Case No. IPR2024-00633

U.S. Patent No. 9,139,993 B1

Case No. IPR2024-00634

U.S. Patent No. 9,103,105 B1

Case No. IPR2024-00635

U.S. Patent No. 10,934,698 B1  
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Deposition of Kimberly K. Cameron, PH.D.

Conducted Remotely

Wednesday, April 23, 2025

9:05 a.m. Mountain Time

Reported by: Matthew Goldstein, RMR, CRR

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DIGITAL EVIDENCE GROUP

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1           Deposition of Kimberly K. Cameron, Ph.D.,  
2   conducted remotely:

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9           Pursuant to Notice, before Matthew Goldstein,  
10   RMR, CRR, Notary Public in and for the State of  
11   Maryland.

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## A P P E A R A N C E S

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ON BEHALF OF THE PETITIONER:

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ON BEHALF OF THE PATENT OWNER:

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ALSO PRESENT:

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DANIEL HOLMSTOCK - VIDEOGRAPHER

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22

## 1 C O N T E N T S

2 EXAMINATION OF KIMBERLY K. CAMERON, PH.D. PAGE

3 By MR. FINCH 8

4

## 5 E X H I B I T S

6 (Attached)

7 EXHIBIT PAGE

Exhibit Paper 30 Petitioner's Reply to 90

8 Patent Owner's Response to

Petition, Previously Marked

9 Exhibit Chapter 600 MPEP Chapter 600 Parts, 123

Form, and Content of

10 Application

Exhibit 1001 United States Patent No. 34

11 9,139,993 B1, Previously Marked

12 Exhibit 1004 Declaration of Dr. Kimberly 107

13 Cameron, IPR2024-00633,

14 Previously Marked

15 Exhibit 1016 Certified Translation of 66

16 Registered Utility Model

17 Publication No. CN2447417Y,

18 Previously Marked

19 Exhibit 1021 United States Patent 3,086,546, 74

20 Previously Marked

21 Exhibit 1022 United States Patent No. 50

22 5,862,538, Previously Marked

1 (Continued)

2 E X H I B I T S

3 Exhibit 1036 Supplemental Declaration of 29  
4 Kimberly K. Cameron, Ph.D.,  
5 IPR2024-00633, Previously  
6 Marked

7  
8 Exhibit 1036 Supplemental Declaration of 32  
9 Kimberly K. Cameron, Ph.D.,  
10 IPR2024-000634, Previously  
11 Marked

12  
13 Exhibit 1036 Supplemental Declaration of 32  
14 Kimberly K. Cameron, Ph.D.,  
15 IPR2024-00635, Previously  
16 Marked

17  
18 Exhibit 2007 Annotations to Petitioner s 151  
19 EX1016, Previously Marked

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1 THE VIDEOGRAPHER: We are now on the  
2 record.

3 This is video No. 1 in the  
4 video-recorded deposition of Dr. Kimberly K.  
5 Cameron, taken in the matter of Fluidmaster, Inc.,  
6 petitioner, v. Danco, Inc., patent owner, with the  
7 following IPRs and patent numbers: IPR 2024-00633  
8 for U.S. Patent No. 9,139,993; and IPR 2024-00634  
9 for U.S. Patent No. 9,103,105; and, finally,  
10 IPR 2024-00635 for U.S. Patent No. 10,934,698.

11 This deposition is being conducted by  
12 Zoom video remote conferencing on April 23rd,  
13 2025.

14 The time on the video screen is  
15 9:05 a.m. Mountain Time Zone.

16 My name is Daniel Holmstock. I am the  
17 legal videographer and digital exhibit technician  
18 from Digital Evidence Group.

19 The court reporter today is Mr. Matthew  
20 Goldstein, also in association with Digital  
21 Evidence Group.

22 All parties have stipulated to the

1 witness being sworn in remotely.

2 Counsel, will you please state your  
3 appearances and whom you represent, followed by  
4 the court reporter administering the oath.

5 MR. FINCH: Yes. My name is Thomas  
6 Finch. I'm employed at Perilla Knox &  
7 Hildebrandt, LLP, on behalf of patent owner,  
8 Danco, Inc.

9 Also with me is Eric Maurer,  
10 M-A-U-R-E-R, also of PKH.

11 MS. ACHARYA: And this is Ranjini  
12 Acharya of Pillsbury Winthrop Shaw Pittman, on  
13 behalf of petitioner, Fluidmaster, Inc.

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1 P R O C E E D I N G S

2 Whereupon,

3 KIMBERLY CAMERON, PH.D.,

4 being first duly sworn or affirmed to testify to

5 the truth, the whole truth, and nothing but the

6 truth, was examined and testified as follows:

7 EXAMINATION BY COUNSEL FOR THE PATENT OWNER

8 BY MR. FINCH:

9 Q. Good morning, Dr. Cameron. Can you  
10 please state your full name for the record?

11 A. Kimberly Katherine Cameron.

12 Q. Thank you, Dr. Cameron.

13 And I know this is our second deposition  
14 in these proceedings. But, once again, I'm going  
15 to be asking you some questions on behalf of  
16 Danco, and your testimony is going to apply to  
17 each of the IPR '633, '634, and '635 proceedings.

18 Do you understand that?

19 A. Yes, I do.

20 Q. Okay. And just to make sure we're on  
21 the same page with some terminology, if I say "the  
22 '993 patent," do you understand that I'm referring

1 to U.S. Patent No. 9,139,993?

2 A. That's correct.

3 Q. And if I say "the '105 patent," you  
4 understand that I'm referring to U.S. Patent  
5 No. 9,103,105?

6 A. Yes.

7 Q. And if I say "the '698 patent," you  
8 understand that I'm referring to U.S. Patent  
9 No. 10,934,698?

10 A. Yes.

11 Q. And throughout the deposition today, I  
12 might use the term "challenged patents" today to  
13 refer to each of those three patents collectively.

14 Does that make sense to you?

15 A. Yes.

16 Q. Now, I know you've been deposed before,  
17 but just for the record, I'd like to go over a  
18 couple of guidelines that will help make things  
19 run a little smoothly today.

20 First, you understand that your  
21 testimony today is under oath?

22 A. I do.

1           Q.    And what is your understanding of what  
2   it means to testify under oath?

3           A.    It means that I'm required to tell the  
4   truth, and if I don't, there could be like penalty  
5   of perjury. I don't know if that's the exact  
6   definition, but roughly.

7           Q.    And is there any reason that you can't  
8   give full, accurate, and truthful testimony today?

9           A.    No.

10          Q.    Okay. And this is a remote deposition  
11   via web conference, but we still have a court  
12   reporter present, who is taking down all of the  
13   words that you and I say. So I'm going to ask  
14   that you please do your best to respond to any  
15   questions verbally rather than nodding your head  
16   or shaking your head.

17                   Is that fair?

18          A.    Yes.

19          Q.    And I will also do my best not to talk  
20   over you while you're answering a question to make  
21   things easier for the court reporter, and I just  
22   ask that you do the same thing.

1 Is that fair?

2 A. Yes.

3 Q. Okay. If you don't understand a  
4 question today, please let me know, and I will do  
5 my best to rephrase it. But if you answer a  
6 question, I'm going to assume that you understood  
7 the question.

8 And if you need a break today or if  
9 anyone else needs a break, please let me know.  
10 And I'm just going to ask that we finish the  
11 question or series of questions that we're on, and  
12 then we'll take our break.

13 Do you have any questions for me before  
14 we get started, Dr. Cameron?

15 A. No.

16 Q. Okay. Where are you located for today's  
17 deposition?

18 A. I'm in Westminster, Colorado.

19 Q. Okay. And what building are you in at  
20 the moment? Where are you actually located?

21 A. 4423 West 68th Avenue.

22 Q. Okay. Is that an office, or is that

1 your home?

2 A. Home.

3 Q. Okay. And do you have any physical  
4 materials in the room with you related to this  
5 case?

6 A. I have a file cabinet that may have a  
7 printout of patents, I'm not sure, but I don't  
8 have them, like, out or anything.

9 Q. Okay. That's a closed file cabinet?

10 A. Correct.

11 Q. Okay. Do you have any notes with you,  
12 written notes or paper, anything of that sort?

13 A. No. Again, there are -- I do have a  
14 file cabinet in here that's closed, but aside from  
15 that, I don't have anything else.

16 Q. Okay. And do you have your phone out  
17 during this deposition?

18 A. I have a phone in the room, but it's  
19 off.

20 Q. Okay. And other than the Zoom  
21 conference that we have running right now, are  
22 there any other programs running on your computer

1 at the moment?

2 A. Yeah, I have some, like, Internet  
3 Explorer folders open. I guess I don't know if  
4 you consider that a program.

5 Q. If they're not relevant to this  
6 proceeding, would you mind closing those folders?

7 A. Sure, I can do that. Hold on.

8 Actually, I have an Excel file open,  
9 too. So I'm closing that, as well.

10 Q. Thank you.

11 Was that Excel file related to this  
12 case?

13 A. No.

14 So now that I'm looking, I have a few  
15 other unrelated things. So I'm just going to  
16 close everything. Just give me a moment.

17 Q. Thank you.

18 A. Okay.

19 Q. Okay. And you were previously deposed  
20 in these IPRs; is that correct?

21 A. Yes.

22 Q. Since that deposition, have you been

1     deposed or offered live testimony in any other  
2     legal proceedings?

3           A.     Can you remind me when that was?

4           Q.     Let's go with November of last year?

5           A.     I was in trial in November of last year,  
6     also. I think it might have actually been like  
7     right around the same time. And then have I done  
8     any after that?

9                   I feel like I must have, but I'm not  
10    remembering any specifically right now.

11          Q.     Understood.

12                 Maybe a little bit broader of a  
13    question, since November of last year, have you  
14    been involved in any other legal proceedings  
15    related to plumbing or plumbing parts?

16          A.     No.

17          Q.     Have you done any other work on behalf  
18    of Fluidmaster since November of last year?

19          A.     Well, I -- yeah. Yes.

20          Q.     Let me rephrase my question.

21                 Other than your work on these three IPR  
22    proceedings, have you done any other work on

1      behalf of Fluidmaster since November of last year?

2           A.    No.

3           Q.    And have you ever had any testimony or  
4      expert reports excluded by a judge or another  
5      party?

6           A.    No.

7           Q.    I know we talked about your background  
8      in depth at the last deposition. Have there been  
9      any changes to your resume or significant changes  
10     to your experience since November of last year?

11          A.    Honestly, I've done some things since  
12     then. I don't -- I'm not sure if I would  
13     characterize it as significant. I'm doing similar  
14     things that I've done before, I guess.

15          Q.    Okay. When you say similar things that  
16     you've done before, are you referring to expert  
17     testimony or in a more product design role or  
18     both?

19          A.    I've done both.

20          Q.    Okay. Do you have any experience  
21     between November of last year and now related to  
22     plumbing parts?

1           A.    I don't remember specifically, but I may  
2    have.

3           Q.    Okay.  When you say you may have, what  
4    is it that you're thinking of?

5           A.    Like doing failure analysis of some  
6    parts, I may have done that in that time frame.

7           Q.    And when you say "failure analysis,"  
8    what does that mean?

9           A.    Like there was some, like, issue with a  
10   product, and you're looking to see basically why  
11   or what happened.

12          Q.    And what types of plumbing parts have  
13   you done failure analysis on?

14          A.    I've done on valves, on piping,  
15   basically on all different kinds of components.

16          Q.    And since November of last year, have  
17   you done any failure analysis on any  
18   plumbing-related parts?

19          A.    I don't remember specifically, but I may  
20   have helped review something like that.

21          Q.    When you say "helped review," what do  
22   you mean?

1           A.    I don't remember doing -- I don't  
2   remember that being a huge focus of mine in the  
3   last, like, four months or five months, but I also  
4   kind of helped review kind of more junior people's  
5   work and things like that. So it's possible that  
6   I was helping with that kind of -- you know, like  
7   not a huge focus of my time, but that may have  
8   been included in the last five months.

9           Q.    In your personal or professional life,  
10   have you ever installed or adjusted a toilet fill  
11   valve?

12          A.    What do you mean by that exactly?

13          Q.    So what is your understanding of what a  
14   toilet fill valve is?

15          A.    So a toilet fill valve is the component  
16   in the kind of toilet system that comes after,  
17   like, water comes in the inlet.

18          Q.    Okay. And have you ever installed a  
19   toilet fill valve into a toilet?

20          A.    I don't think I was an initial  
21   installer, but I'm not positive about that.

22          Q.    Okay. Have you ever adjusted or

1 repaired or modified a toilet fill valve in a  
2 toilet?

3 A. Yes.

4 Q. Okay. What are the circumstances of  
5 that?

6 A. I guess I've done it on my own toilet,  
7 and then I've also, in the course of my work, do  
8 analysis -- failure analysis of plumbing systems,  
9 and within that I've done that on toilets.

10 Q. Okay. With respect to your own toilet,  
11 did you ever adjust the rate at which water flows  
12 through the fill valve?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: I don't remember  
15 specifically.

16 BY MR. FINCH:

17 Q. Do you have any general memory of  
18 adjusting the rate at which water flows through  
19 the fill valve?

20 MS. ACHARYA: Objection; form.

21 THE WITNESS: I don't have a clear  
22 memory. Usually if I'm working on it, something

1 is not -- you know, something went wrong with the  
2 toilet, and I just fix it.

3 BY MR. FINCH:

4 Q. So you don't know whether or not you've  
5 ever adjusted the rate at which water flows  
6 through a fill valve?

7 MS. ACHARYA: Objection; form.

8 THE WITNESS: I don't have a specific  
9 memory of that, but I may have.

10 BY MR. FINCH:

11 Q. What makes you think you may have?

12 A. Simply because I have gone in to -- and  
13 have fixed the toilet before.

14 Q. Is adjusting the rate at which water  
15 flows through a fill valve something that is  
16 commonly done when fixing a toilet?

17 MS. ACHARYA: Objection; form.

18 THE WITNESS: I don't know. It depends,  
19 I guess.

20 BY MR. FINCH:

21 Q. When you say "it depends," what do you  
22 mean?

1           A.    It depends what's wrong.

2           Q.    Sitting here today, can you provide me  
3 with any specific examples of when you've adjusted  
4 the rate at which water flows through a toilet  
5 fill valve?

6                   MS. ACHARYA:  Objection; form.

7                   THE WITNESS:  I don't have a specific  
8 memory of doing that, but I may have.

9   BY MR. FINCH:

10          Q.    And when you say you may have, that's  
11 just because you've repaired toilets before, you  
12 don't have any additional information to qualify  
13 that answer?

14          A.    Correct.

15                   MS. ACHARYA:  Objection; form.

16   BY MR. FINCH:

17          Q.    Do you know if the flow rate is  
18 frequently adjusted during the life cycle of a  
19 toilet?

20                   MS. ACHARYA:  Objection; form.

21                   THE WITNESS:  I would say generically  
22 that you can probably have changes in your water

1 pressure and, hence, the flow from your main line  
2 over the course of how long a toilet could last.  
3 So in that sense, you know, that would indicate  
4 that you could change the -- change the flow to  
5 adjust it based on that.

6 I think too, though, that it is probably  
7 also true that people sometimes replace their  
8 toilets before they need to. So maybe on that  
9 shorter time scale, there wouldn't be as much  
10 change, but it really depends on your system.

11 BY MR. FINCH:

12 Q. When you say changes in your water  
13 pressure and, hence, the flow from the main line,  
14 why would that lead a person to adjust the flow  
15 rate through the toilet fill valve?

16 A. Because you'd be getting a different  
17 amount of water if you change that.

18 Q. And when you say "main line," what are  
19 you referring to?

20 A. An inlet.

21 Q. What would cause changes in pressure in  
22 the main line?

1           A.    I guess I use that term a little bit  
2   loosely, but it could be that system pressure  
3   changes or more commonly that maybe your pipes are  
4   a little bit more constricted. So you don't have  
5   the same -- you know, you have more restriction  
6   there.

7           Q.    And how do restricted pipes impact  
8   pressure?

9           A.    Basically because you have less area for  
10   the flow to go through.

11          Q.    And what impact does that have on  
12   pressure?

13          A.    It can change the pressure, but more  
14   importantly, it's changing the amount of, like,  
15   flow you're getting for a period of time.

16          Q.    But what -- specifically, what impact  
17   would a restricted pipe have on the pressure?

18                MS. ACHARYA: Objection; form.

19                THE WITNESS: I guess I would -- like I  
20   said, I was using that term kind of loosely to  
21   describe the flow.

22

1 BY MR. FINCH:

2 Q. And when you say "kind of loosely," what  
3 do you mean?

4 A. Well, obviously, like if you have  
5 more -- I mean, thinking about the flow overall,  
6 if you have more kind of driving pressure, then  
7 for the same -- same size opening, you can get  
8 more flow. But if you have the same -- the same  
9 pressure behind, then for a smaller opening you  
10 would get less flow.

11 Q. I got it.

12 So is it fair to say that the water  
13 pressure in the system and the diameter of the  
14 opening are two things that impact flow rate?

15 A. Yes.

16 MS. ACHARYA: Objection; form.

17 BY MR. FINCH:

18 Q. What -- are there any other things that  
19 impact flow rate?

20 A. Those are the main things that come to  
21 mind.

22 Q. You testified earlier that at least in

1 some use cases, a person might replace their  
2 toilet before the fill valve even needs to be  
3 adjusted; is that correct?

4 A. That's possible, yes.

5 Q. Is that common in your experience in the  
6 industry?

7 A. I'd say it's really varied. I think on  
8 one end of the consumer market, it's probably  
9 unlikely that the toilet gets changed before it's  
10 close to the end of its life. Maybe at the other  
11 end of the market, it's changed more frequently.

12 Q. And there you're talking about the  
13 toilet itself?

14 A. Yes.

15 Q. Do you have any knowledge of how  
16 frequently consumers adjust the flow rate of the  
17 fill valve?

18 MS. ACHARYA: Objection; scope.

19 THE WITNESS: I haven't done any market  
20 research or anything like that on that.

21 BY MR. FINCH:

22 Q. Separate and apart from any market

1 research, do you have any knowledge of how  
2 frequently consumers adjust the flow rate of the  
3 fill valve?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: I don't know that  
6 precisely, no.

7 BY MR. FINCH:

8 Q. What did you do to prepare for today's  
9 deposition?

10 A. I looked at some of the -- or I looked  
11 at the declarations that I provided, and some of  
12 the references I looked at. What else did I look  
13 at. I looked at the declaration provided by the  
14 other expert. I may have looked at other  
15 documents, as well.

16 Q. And when you say you may have looked at  
17 other documents, as well, do you know what other  
18 documents you're referring to?

19 A. I don't -- I don't remember  
20 specifically, no.

21 Q. Do you know for a fact that you looked  
22 at other documents and you just can't remember

1    what they are, or are you not sure if you looked  
2    at any other documents?

3           A.    I'm not sure if I did or if I did, what  
4    they were, both of those.

5           Q.    When you said you looked at some of the  
6    references, which references did you look at?

7           A.    I remember looking at Ho, and I remember  
8    looking at Guoxin. There may have been others.

9           Q.    You say there may have been others. Are  
10   there any others that come to mind?

11          A.    Not offhand, but there may have been.

12          Q.    What leads you to say there may have  
13   been?

14          A.    Oh, because I don't have a clear memory  
15   that that's, like, the only documents that I  
16   looked at.

17          Q.    So there could have been other  
18   documents, but you don't have any reason to  
19   believe there were other documents?

20                MS. ACHARYA: Objection; form.

21                THE WITNESS: I would say generally,  
22   when I'm looking through things, like, you know,

1 something might, you know, pop into my mind, and  
2 I'll go look at that document. So the reason I  
3 say that there may have been other documents is  
4 it's not that I don't have reason to believe,  
5 because my general practice is to look at whatever  
6 occurs to me as I'm reviewing.

7 And I would say that's pretty typical  
8 for me to -- you know, some thought pops in, and I  
9 go look at a document. I don't have a specific  
10 memory of, like, what that was in this particular  
11 instance, but the reason why I said there may have  
12 been is because that's just generally pretty  
13 typical as I do reviews generally.

14 BY MR. FINCH:

15 Q. Did you meet with anyone to prepare for  
16 today's deposition?

17 A. Yes.

18 Q. Who did you meet with?

19 A. I met with the attorneys.

20 Q. When you say "the attorneys," what  
21 attorneys are you referring to?

22 A. I actually have forgotten her last name,

1 but she's on the line. And then also Carolyn --  
2 what's her last name -- Toto. Sorry, I'm really  
3 bad with names.

4 Q. And when you say "on the line," you're  
5 referring to -- forgive me if I butcher your last  
6 name -- Ms. Acharya?

7 A. Yes.

8 Q. When did you meet with the counsel for  
9 Fluidmaster?

10 A. Like a week, two -- something like a  
11 week or two ago.

12 Q. Was it just one time, or was it multiple  
13 times?

14 A. I think mainly one time, but I may have  
15 also had, like, short -- another short call, as  
16 well.

17 Q. But you don't remember if you had  
18 another short call or not?

19 A. I think -- I don't remember the exact  
20 timeline, but I want to say some -- that's my best  
21 recollection is that I've had one call maybe  
22 around two weeks ago, and then maybe a very brief

1 call on the order of a week ago.

2 Q. Did you meet with anyone other than  
3 Fluidmaster's attorneys to prepare for this  
4 deposition?

5 A. No.

6 MR. FINCH: Let's go ahead and pull up  
7 your declaration, Exhibit 1 -- sorry, that is the  
8 wrong number, give me one second -- Exhibit 1036.  
9 It's marked as letter B in the upload link.

10 (Exhibit 1036, Previously Marked.)

11 MR. FINCH: And let's also provide that  
12 in the chat for Dr. Cameron to download, please.

13 THE VIDEOGRAPHER: That is provided in  
14 that link.

15 So, Doctor, if you refresh, you should  
16 be able to see that file.

17 BY MR. FINCH:

18 Q. And, Dr. Cameron, please let me know  
19 once you're able to download that file.

20 A. Okay.

21 Q. Dr. Cameron, does this appear to be a  
22 copy of your supplemental declaration in

1 IPR 2024-00633, relating to the '993 patent?

2 A. I mean, I wouldn't be able to tell if  
3 you changed something, but overall, it looks like  
4 that, yes.

5 Q. Okay. And I will represent to you that  
6 I did not change anything in the declaration.

7 A. I would not think you would.

8 Q. And you understand that this declaration  
9 was submitted in connection with Fluidmaster's IPR  
10 petition; correct?

11 A. That's my understanding, yes.

12 Q. And you also submitted supplemental  
13 declarations related to the '105 and '698 patents;  
14 correct?

15 A. That's correct.

16 Q. Did you draft each of the supplemental  
17 declarations yourself?

18 A. Yes.

19 Q. Okay. Was anyone else responsible for  
20 drafting any portion of those declarations?

21 A. I had some back-and-forth with the  
22 attorneys as I was doing the report.

1           Q.    When did you draft each of these  
2    declarations?

3           A.    I don't remember exactly.

4           Q.    Do you have a rough idea?

5           A.    I don't know. Like, the beginning of  
6    this year, maybe. I don't remember exactly. It  
7    would have been after the -- I think it was after  
8    I read the report of the other expert.

9           Q.    Other than yourself and counsel for  
10   Fluidmaster, was anyone else involved in drafting  
11   either the '993 patent declaration that's on the  
12   screen or the '105 or '698 patent declarations?

13          A.    No.

14          Q.    Of the three supplemental declarations,  
15   do you remember which one you prepared first?

16          A.    Maybe if you put the other two, that  
17   might spark my memory.

18          Q.    Sure.

19               MR. FINCH: Can we -- let's leave the  
20   '993 up on the screen, but can we also put  
21   Exhibit 1036, it's letter E from the  
22   '634 proceeding, and Exhibit 1036, letter H, from

1 the '635 proceedings, in the chat.

2 (Exhibit 1036, Previously Marked.)

3 (Exhibit 1036, Previously Marked.)

4 MR. FINCH: Forgive me, into the  
5 download link.

6 THE WITNESS: I'm not positive, but I  
7 may have done the '993 one first.

8 BY MR. FINCH:

9 Q. Okay. Thank you.

10 What leads you to believe that?

11 A. I have a vague memory that -- well, one,  
12 as I was looking through here, I kind of recall  
13 kind of the '993 number, like, more. And I think  
14 there was kind of a lot of similar issues between  
15 the declarations.

16 So that kind of indicates to me that I  
17 was, like, you know, more time in the '993 one.  
18 And I also have a, like, vague recollection of it  
19 being slightly longer. And, again, I'm not  
20 positive about this, but if I had to make a guess,  
21 that would be it.

22 Q. And let's go ahead and turn so that we

1 can see paragraphs 7, 8, and 9 of the '993  
2 declaration that's on the screen, page 7 of the  
3 PDF.

4 And, Dr. Cameron, Section 2 here states,  
5 "Summary of Supplemental Opinions"; is that  
6 correct?

7 A. Yes.

8 Q. So is this intended to provide a summary  
9 of the opinions that are going to be in this  
10 declaration?

11 A. That was the intention, yes.

12 Q. Okay. Paragraph 9 states, I also remain  
13 of the view that at least Claims 1 through 18 of  
14 the '105 patent are anticipated by Schuster.

15 Did you mean to refer to the '105 patent  
16 here?

17 A. No, this one, I think, is the '9 --  
18 should be '993.

19 Q. So is that just a typo?

20 A. That's a typo, yes.

21 Q. Okay. Are you aware of any other typos  
22 in any of your declarations?

1           A.    I don't remember seeing any as I was  
2    looking through, but that's not to say that there  
3    aren't any.

4           Q.    In this same sentence, you state that  
5    you are of the view that at least Claims 1 through  
6    18 of the '105 patent are anticipated by Schuster.

7                   What do you mean by "at least"?

8           A.    I can't remember if there are more  
9    claims than that offhand. I guess if you want to  
10   put that -- the '993 up, I can look.

11          Q.    Sure.

12               MR. FINCH: Can we please put up  
13   letter N, Exhibit 1001, in IPR2024-00633.

14                   (Exhibit 1001, Previously Marked.)

15   BY MR. FINCH:

16          Q.    And, Dr. Cameron, please let the  
17   videographer know if there's any particular  
18   portion of this document you'd like to look at.

19          A.    I have to refresh that. I don't see  
20   anything else. Oh, no, it just came up, sorry.  
21   Okay.

22               Yeah, so I'm just looking right now. I

1 don't know if that's also just a typo, but there  
2 are 20 claims, and I think I did apply that all of  
3 them were anticipated by Schuster. So it should  
4 be -- I guess it should be 1 through 20.

5 Q. Okay. So your opinion is that all of  
6 Claims 1 through 20 are anticipated by Schuster?

7 A. Correct.

8 Q. Okay. Explain to me at a high level why  
9 you believe that Claims 19 and 20 are anticipated  
10 by Schuster.

11 A. So I guess the additional limitations in  
12 there are that you have an adjustable water flow  
13 regulator configured to adjust the flow rate. And  
14 in Schuster, you have the fill valve that  
15 determines the flow rate of the water.

16 Q. Let me ask a little bit different  
17 question.

18 Is it your opinion that Schuster is  
19 prior art to the '993 patent?

20 A. Yes, I think in my original declaration,  
21 I have a longer discussion of the priority date.  
22 And so, yeah, based on that, it would be.

1           Q.    And is it your opinion that Schuster is  
2 prior art to Claims 19 and 20 of the '993 patent?

3           A.    I think that's an interesting question  
4 because it does, I guess, limit it to being  
5 adjustable in Claim 19 and 20. I think -- I don't  
6 remember what I initially said in my original  
7 declaration, but probably I'd want to think about  
8 that a little bit more.

9           Q.    When you say you'd want to think about  
10 that a little bit more, do you have any opinions,  
11 sitting here today, as to whether or not Schuster  
12 is prior art to Claims 19 and 20 of the  
13 '993 patent?

14          A.    I think in general, it was my opinion  
15 that Schuster was prior art to all 20 claims.  
16 However, I do see in Claim 19 and 20, that there  
17 is -- it does seem to limit it to just the  
18 adjustable. Let me just look at this claim again,  
19 one second.

20                   Actually, I think -- no, I think that --  
21 I think Schuster is prior art to all of the  
22 claims.

1 Q. Okay. Why is it that you believe

2 Schuster is prior art to Claims 19 and 20?

3 A. I would need to go probably look back,  
4 but my recollection is that publication was filed  
5 before the claimed priority date for the  
6 challenged claims.

7 Q. And it was filed before. To be clear,  
8 the challenged claims claim priority back to  
9 Schuster.

10 Does that impact your answer?

11 MS. ACHARYA: Objection; form.

12 THE WITNESS: Yes, so I have a longer  
13 discussion in my initial report related to the  
14 fact that the "bowl fill restriction" term was not  
15 added until January, I think January of 2014. So  
16 I think the -- let's see. I think the publication  
17 date of Schuster wasn't -- it was before that.

18 BY MR. FINCH:

19 Q. Okay. So to be clear, why is it that  
20 you believe that Schuster is prior art to  
21 Claims 19 and 20 besides the publication date?

22 MS. ACHARYA: Objection; form.

1 THE WITNESS: I mean, that is why. I'm  
2 not sure what you mean.

3 BY MR. FINCH:

4 Q. So the only reason you believe Schuster  
5 is prior art to Claims 19 and 20 of the  
6 '993 patent is because Schuster was published  
7 before the '993 patent was filed?

8 MS. ACHARYA: Objection; form.

9 THE WITNESS: No, I think I just  
10 explained to you that I have a longer discussion  
11 in my initial report about the fact that the bowl  
12 fill restriction, which appears in the claim, was  
13 not added until, I think, in January of 2014. And  
14 so whatever that -- I don't remember the precise  
15 date, but whatever that date was was after the  
16 publication of Schuster.

17 BY MR. FINCH:

18 Q. And why is that term, "bowl fill  
19 restriction," relevant to your answer?

20 A. Because during -- I think during this --  
21 during prosecution, the "bowl fill restriction"  
22 term was added in January of 2014. I think that

1 was later changed to the term "water flow  
2 regulator," which was the same -- which was meant  
3 to be the same as the bowl fill restriction.

4 And in the claim language for Claim 19  
5 and 20, that includes the term "water flow  
6 regulator."

7 Q. Is it your opinion that Schuster does  
8 not provide written description support for  
9 Claims 19 and 20 of the '993 patent?

10 MS. ACHARYA: Objection; form.

11 THE WITNESS: Can you repeat that  
12 question?

13 BY MR. FINCH:

14 Q. Is it your opinion that Schuster does  
15 not provide written description support for  
16 Claims 19 and 20 of the '993 patent?

17 MS. ACHARYA: Objection; form.

18 THE WITNESS: That question is a little  
19 bit confusing. Can you repeat it one more time?

20 BY MR. FINCH:

21 Q. Sure.

22 Is it your opinion that Schuster does

1 not provide written description support for  
2 Claims 19 and 20 of the '993 patent?

3 MS. ACHARYA: Objection; form.

4 THE WITNESS: Okay. I thought you said  
5 something different before. So I do agree that  
6 the earlier applications in the '993 patent don't  
7 provide written description support for those  
8 claims.

9 BY MR. FINCH:

10 Q. Okay. And why is it that you believe  
11 that the earlier applications in the '993 patent  
12 don't provide written description support for  
13 those claims?

14 A. Again, I think I have a more complete  
15 description of this, but in general, again,  
16 because the bowl fill restriction was not added  
17 until January of 2014.

18 Q. Why is it relevant that the bowl fill  
19 restriction was not added until January of 2014?

20 MS. ACHARYA: Objection; form.

21 THE WITNESS: Because -- well, in the  
22 claim language it says, "water flow regulator,"

1 but that was during prosecution, substituted to be  
2 the same thing as "bowl fill restriction."

3 BY MR. FINCH:

4 Q. And so is it your opinion that that  
5 term, "water flow regulator," does not have  
6 support in Schuster?

7 MS. ACHARYA: Objection; form.

8 THE WITNESS: Right. Yes. That doesn't  
9 have written description in the earlier  
10 application, that's correct.

11 BY MR. FINCH:

12 Q. What is it that's missing, in your  
13 opinion?

14 A. I don't know what you mean by that.

15 Q. Why do you believe that water flow  
16 regulator does not have support -- written  
17 description support in the earlier applications?

18 A. Again, because that is not -- that was  
19 not added until 2014.

20 Q. And your opinions are the same for  
21 Claims 19 and 20 of the '993 patent?

22 A. Yes.

1 Q. Let's go back to Tab B. This is the  
2 supplemental declaration in IPR 2024-00633. And  
3 let's go to paragraph 13.

4 MR. FINCH: Can we zoom in on  
5 paragraph 13? Thank you.

6 BY MR. FINCH:

7 Q. And, Dr. Cameron, in paragraph 13, you  
8 list --

9 A. I'm sorry, I'm not -- I don't know where  
10 I am yet. Can you repeat the thing I'm looking  
11 at?

12 Q. Yes, we're looking at the supplemental  
13 declaration for the '993 patent at paragraph 13.

14 A. Do you know if that's -- I am like -- my  
15 things are -- the end is cut off, but if you could  
16 tell me by the N, the H, the E, or the B, that  
17 would be more useful.

18 Q. This is Tab B.

19 A. B, okay. Great. Sorry.

20 Okay. I'm in that now.

21 Q. Dr. Cameron, in paragraph 13, you list  
22 your understanding of patent owner's proposed

1 construction of "water flow regulator"; is that  
2 correct?

3 A. Yes.

4 Q. What is your understanding of what that  
5 proposed construction is? Strike that.

6 Can you read the first sentence of  
7 paragraph 13 for me?

8 A. It says, "I understand that PO has  
9 proposed 'water flow regulator' be construed as 'a  
10 device for regulating a flow rate of an amount of  
11 water flowing therethrough.' POR at 7."

12 Just the first sentence; right?

13 Q. Correct, yes.

14 A. Yeah.

15 Q. And you have a different understanding  
16 of how a person of ordinary skill in the art would  
17 understand the term "water flow regulator";  
18 correct?

19 A. I think I added -- I think I provided  
20 some more context to that, if you read the rest of  
21 the paragraph there. So it's just explaining that  
22 the patent owner told the patent office that the

1 "bowl fill restriction" was broader than the "bowl  
2 fill valve."

3 And so I just wanted to clarify that  
4 kind of based on that exchange with the patent  
5 office, that a person of ordinary skill in the art  
6 would understand that "bowl fill restriction"  
7 encompasses a fixed or adjustable device for  
8 regulating the flow rate.

9 I don't think that's, like, inconsistent  
10 with what the patent owner proposed, but I just  
11 wanted to additionally clarify that.

12 Q. Are you aware of any differences between  
13 what you proposed and what the patent owner  
14 proposed?

15 A. I mean, our words are not the same, of  
16 course. But I guess, as I just explained, I don't  
17 think my additional context here is inconsistent  
18 with what the patent owner proposed, although they  
19 didn't -- you know, they didn't say that  
20 specifically.

21 Q. Can you think of an example of a device  
22 that would be covered by patent owner's

1 construction, but not covered by your

2 construction?

3 MS. ACHARYA: Objection; scope.

4 THE WITNESS: Well, patent owner's

5 construction is kind of silent as to that -- those

6 specifics. So I assume that that also includes

7 what I say here, but just, you know, to be sure.

8 I'm obviously not in their head.

9 BY MR. FINCH:

10 Q. And I'm not asking you to be in their

11 heads, but as a person of ordinary skill in the

12 art, can you think of an example of a device that

13 would not be a fixed or adjustable device that

14 regulates a flow rate of an amount of water

15 flowing therethrough?

16 MS. ACHARYA: Objection; form.

17 THE WITNESS: Well, I mean, for me, I

18 think that that original language does include the

19 fixed or adjustable. But because that seems to be

20 an issue generically, I just wanted to make sure

21 that that was clear, which I don't -- you know, it

22 doesn't say it specifically in the patent owner

1 one. So, like, that's why I have that  
2 explanation.

3 BY MR. FINCH:

4 Q. What would the example of a fixed device  
5 for regulating a flow rate of an amount of water  
6 flowing therethrough be?

7 A. You could have a device that basically  
8 changes -- that has a specific size opening so  
9 that you have a particular flow rate coming out of  
10 that device.

11 Q. And what would an example of an  
12 adjustable device for regulating a flow rate of an  
13 amount of water flowing therethrough be?

14 A. Well, I mean, I think I provided some  
15 examples in my declaration. You can see in, for  
16 example, Ho or in Guoxin.

17 Q. Sitting here today, are you aware of any  
18 devices for regulating a flow rate of an amount of  
19 water flowing therethrough that are neither fixed  
20 nor adjustable?

21 A. I mean, no. But, again, I did think it  
22 was important to clarify that it could be fixed or

1 adjustable.

2 Q. So is it fair to say that every device  
3 for regulating a flow rate of an amount of water  
4 flowing therethrough would be either a fixed  
5 device or an adjustable device?

6 A. That would be how I think about it. I,  
7 of course, don't have every possible device in  
8 front of me right now, but that would be my  
9 understanding, yes.

10 Q. Sitting here today, you're not aware of  
11 a third category of devices besides fixed and  
12 adjustable devices?

13 A. That's correct.

14 MS. ACHARYA: Counsel, before you ask  
15 your next question, I'm just noting we've been  
16 going for about an hour.

17 MR. FINCH: Got it.

18 Would anyone like a break, or would you  
19 like to keep going?

20 THE WITNESS: I mean, it sounds like she  
21 wants a break; right?

22 MS. ACHARYA: No, it's up to you,

1 Dr. Cameron. We can keep going.

2 THE WITNESS: Oh, okay. For me, it  
3 doesn't matter, but I'm happy to take a break. I  
4 don't have any time constraints or anything.

5 MR. FINCH: Let's take a short maybe  
6 five-minute break, and then come right back.

7 THE WITNESS: Okay. Sounds good.

8 THE VIDEOGRAPHER: All right. The time  
9 is 10:07 a.m. We're going off the record.

10 (Recess from the record.)

11 THE VIDEOGRAPHER: The time is  
12 10:13 a.m. And we're back on the record.

13 MR. FINCH: Let's go ahead and pull back  
14 up Tab B, which is Dr. Cameron's declaration --  
15 supplemental declaration in the '633 proceeding.  
16 And let's go to paragraph 86.

17 BY MR. FINCH:

18 Q. And, Dr. Cameron, in paragraph 86, you  
19 state, "I have previously noted that Brown aims to  
20 eliminate water wastage by" --

21 A. And I'm sorry, I must be on the wrong  
22 one. My 86 starts with "Moreover."

1 Q. Yes, so the second sentence of  
2 paragraph 86 --

3 A. Oh, okay. Sorry, I just -- sorry, okay.

4 Q. Understood.

5 So the record is clear, the second  
6 sentence of paragraph 86 states, "I have  
7 previously noted that Brown aims to eliminate  
8 water wastage by controlling water flow, as does  
9 Ho"; is that correct?

10 A. Yes.

11 Q. And Ho is referring to one of the prior  
12 art references in this case; correct?

13 A. That's correct.

14 Q. Okay. But Ho doesn't actually disclose  
15 eliminating water wastage; does it?

16 A. Ho also discloses the ability to control  
17 the amount of water.

18 Q. So what you're saying with this  
19 statement is that Ho discloses controlling water,  
20 but not eliminating water wastage?

21 MS. ACHARYA: Objection; form.

22 THE WITNESS: I don't specifically

1 remember if Ho uses the term "eliminate water  
2 wastage" or not.

3 MR. FINCH: Let's go ahead and pull up  
4 Tab M. This is Exhibit 1022.

5 (Exhibit 1022, Previously Marked.)

6 BY MR. FINCH:

7 Q. Dr. Cameron, is this the Ho reference  
8 you were referring to?

9 A. I don't have anything else yet.

10 It just came. Yes.

11 Q. Okay. And can you direct me to what  
12 portion of Ho you were referring to when you  
13 indicated that it eliminates water wastage?

14 MS. ACHARYA: Objection; misstates  
15 testimony.

16 THE WITNESS: So it doesn't use that  
17 specific phrase, but it does explain, if you look  
18 at the bottom of Column -- middle to the bottom of  
19 Column 1 through a brief description of the  
20 drawings. And then it also explains that other  
21 features and advantages will become apparent in  
22 the description. And then there's a pretty

1 detailed description of how the device works.

2 BY MR. FINCH:

3 Q. Okay. Can you point me to anything  
4 specific in Ho that relates to eliminating water  
5 wastage?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: Again, so that calls out  
8 to me from the bottom -- middle to the bottom of  
9 Column 1 through the brief description of the  
10 drawings. And then also from the statement that  
11 the features and advantage becomes apparent in the  
12 description. And to me, the description that  
13 follows indicates that.

14 BY MR. FINCH:

15 Q. Which portion of Ho, specifically in  
16 terms of the words used by Ho, indicates to you  
17 that it relates to eliminating water wastage?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: That's the same answer.  
20 So it's the middle to bottom of Column 1 through  
21 the detailed description of the preferred  
22 embodiment, along with their explanation that the

1 features and advantages become apparent through  
2 the description. And so it's the entire  
3 description of the embodiment that starts on -- it  
4 starts in Column 2 through the claims.

5 BY MR. FINCH:

6 Q. When you say "the middle to bottom of  
7 Column 1," what are you referring to?

8 A. Well, there's numbers at the top of  
9 each -- so, I mean, on each page there's two  
10 columns that are numbered. So the first column is  
11 Column 1.

12 Q. And when you say "the middle to the  
13 bottom," which line number are you referring to of  
14 Column 1?

15 A. Let's say 44.

16 Q. Okay. Column 1, line 44 states, The  
17 valve housing has top and bottom walls, a  
18 transverse partition wall between the top and  
19 bottom walls, and upper and lower chambers divided  
20 by the partition wall.

21 How does that relate to reducing water  
22 wastage?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: Well, it's specifically  
3 showing you how that can occur. So it's giving a  
4 very detailed explanation of the structure.

5 BY MR. FINCH:

6 Q. And how does the detailed explanation of  
7 the structure lead you, as a person of ordinary  
8 skill in the art, to believe that it relates to  
9 eliminating water wastage?

10 A. Because that allows you to control how  
11 much goes to the bowl.

12 Q. Does Ho discuss water wastage at all?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: Well, it does explain that  
15 the features and advantages of the invention  
16 become apparent through the detailed description,  
17 which is how I understand it, too.

18 BY MR. FINCH:

19 Q. What is water wastage in the context of  
20 toilet fill valves?

21 A. You're using more water than you need.

22 Q. And when you say "more water than you

1     need," what do you mean?

2           A.     More water than -- you're using more  
3     water than you need to, like, operate the toilet.

4           Q.     And what happens to the wasted water?

5           A.     I mean, eventually it will get flushed  
6     away.

7           Q.     Does Ho describe water being wasted at  
8     all?

9                   MS. ACHARYA:  Objection; form.

10                  THE WITNESS:  I mean, to me, it does  
11     through the sections I just pointed to.

12     BY MR. FINCH:

13           Q.     And what about the sections you pointed  
14     to leads you to think that Ho refers to wasted  
15     water?

16                  MS. ACHARYA:  Objection; asked and  
17     answered.

18                  THE WITNESS:  So, again, the sections I  
19     point to you kind of specifically describe a  
20     structure for how you can do that.

21     BY MR. FINCH:

22           Q.     Dr. Cameron, can you read any line from

1 Ho to me, sitting here today, that relates to  
2 wasted water?

3 MS. ACHARYA: Objection; form.

4 THE WITNESS: Again, the sections that I  
5 pointed you to are describing specifically the  
6 structure that you can use, and you would -- a  
7 person of ordinary skill in the art would  
8 understand that that is for that.

9 BY MR. FINCH:

10 Q. Okay. Despite the fact that Ho never  
11 says that it is for wasted water, that's what a  
12 person of ordinary skill in the art would  
13 understand?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: Yes, I mean, Ho does,  
16 again, explain that the features and advantages  
17 become apparent through the description. And yes,  
18 I think that is apparent through the description.

19 BY MR. FINCH:

20 Q. And what portion of the description  
21 leads you to believe that that is apparent?

22 A. So, again, the portion in the middle of

1 Column 1 through the brief description of the  
2 drawings. And then the specific details that are  
3 in the description of the preferred embodiment.

4 Q. Column 1, line 47 states, "The partition  
5 wall has an opening and a first valve seat  
6 confining" --

7 A. I'm sorry, can you let me get where you  
8 are? Did you say 47?

9 Q. Column 1, line 47 states, "The partition  
10 wall has an opening and a first valve seat  
11 confining the opening."

12 How does that sentence relate to water  
13 wastage?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: Oh, sorry. So I didn't  
16 hear what you said. Do you want to -- I didn't  
17 mean to cut you off.

18 BY MR. FINCH:

19 Q. Column 1 --

20 A. No, not you. Someone else spoke. Did I  
21 just imagine that?

22 MS. ACHARYA: I was just making my

1 objection for the record, Dr. Cameron.

2 Counsel, if you want to ask the question  
3 again, we'll start over.

4 BY MR. FINCH:

5 Q. Column 1, line 47 states, "The partition  
6 wall has an opening and a first valve seat  
7 confining the opening."

8 How does that relate to water wastage?

9 MS. ACHARYA: Objection; form.

10 THE WITNESS: If you look at Figure --  
11 either Figure 3 or Figure 7, 8, 9, or 10, you can  
12 see how that valve seat allows you to -- it's part  
13 of the structure that allows you to change when  
14 the water is allowed to go to the bowl. So that  
15 basically allows you to restrict the amount of  
16 water that's being put into the bowl, which, of  
17 course, reduces waste.

18 BY MR. FINCH:

19 Q. Dr. Cameron, is it your opinion that any  
20 toilet fill valve which controls the amount of  
21 water that goes to the bowl is eliminating water  
22 wastage?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: I would probably want to  
3 see the specific reference.

4 BY MR. FINCH:

5 Q. I'm not referring to a specific  
6 reference.

7 Speaking generally, is it your opinion  
8 that any toilet fill valve which controls water  
9 flow to the toilet bowl has the secondary effect  
10 of eliminating water wastage?

11 MS. ACHARYA: Objection; form.

12 THE WITNESS: Yeah, I think my answer is  
13 the same. I think I would want to see the  
14 reference.

15 MR. FINCH: Can you pull up Figure 3 of  
16 Ho, please.

17 BY MR. FINCH:

18 Q. Dr. Cameron, can you explain to me how  
19 Figure 3 of Ho shows you, as a person of ordinary  
20 skill in the art, that Ho is directed to  
21 eliminating water wastage?

22 MS. ACHARYA: Objection; form.

1 THE WITNESS: Yes, again, because of  
2 the -- I mean, there's a longer description, but  
3 because you can change the -- where that valve --  
4 or sorry, which valve seat you're in, you can  
5 basically change the amount of water that's being  
6 delivered to the bowl.

7 BY MR. FINCH:

8 Q. And Ho discloses a diverter valve;  
9 correct?

10 A. That's correct.

11 Q. And that diverter vell -- excuse me.

12 That diverter valve determines whether  
13 water goes from the inlet to the rim of the bowl  
14 or into the toilet tank; correct?

15 A. That's correct.

16 Q. Is it your testimony that Ho discloses  
17 eliminating water wastage because it allows the  
18 operator to control whether water is directed to  
19 the toilet bowl or the toilet tank?

20 MS. ACHARYA: Objection; form.

21 THE WITNESS: Because you can have less  
22 water going to the bowl, yes.

1 BY MR. FINCH:

2 Q. Ho doesn't disclose that eliminating  
3 water wastage was one of the goals of the  
4 invention; does it?

5 A. I don't think it specifically says that,  
6 but it also, as I mentioned, does say that the  
7 features and benefits will become apparent from  
8 the description of the structure. And as a person  
9 of ordinary skill in the art, I think that that  
10 description shows that.

11 Q. And the description shows that because  
12 Ho provides a way to control water flow; correct?

13 A. It provides a way to reduce the amount  
14 of water that's being delivered to the bowl,  
15 that's correct.

16 Q. And it also provides a way to increase  
17 the amount of water that's being delivered to the  
18 bowl; is that correct?

19 A. Yes.

20 Q. And, in fact, if we turn on Column 1,  
21 line 4 of Ho, it says that the invention relates  
22 to a toilet flushing device --

1           A.     Sorry, I know you have it already, but  
2     it takes me a second to get there. Can you say  
3     that again?

4           Q.     Column 1, line 6, under the Field of the  
5     Invention states that, "This invention relates to  
6     a toilet flushing device, more particularly to a  
7     toilet flushing device which has a diverter valve  
8     unit for directing water from the water supplying  
9     pipe to the rim flushing conduit of a toilet bowl;  
10    is that correct?

11          A.     That's correct.

12          Q.     So the diverter valve disclosed by Ho  
13     directs water from the water supplying pipe to the  
14     toilet bowl; correct?

15          A.     Correct.

16          Q.     If that diverter valve were not there,  
17     water would not be directed to the toilet bowl;  
18     correct?

19          A.     If you just remove the part altogether?

20          Q.     Correct.

21          A.     I mean, yeah, I guess -- I mean, you  
22     would not have a working device, but, yeah, that

1 would be true.

2 Q. So without the diverter valve disclosed  
3 by hole -- by Ho -- let me rephrase that.

4 Absent the diverter valve disclosed by  
5 Ho, there would be less water directed to the  
6 toilet bowl; correct?

7 MS. ACHARYA: Objection; form.

8 THE WITNESS: Well, I don't think  
9 anybody is suggesting that you can operate this  
10 toilet without any water in the bowl. If you  
11 remove the device so that it doesn't work, you're  
12 not going to be delivering water to the bowl.

13 BY MR. FINCH:

14 Q. Is the diverter valve the only way water  
15 goes from the toilet fill valve to the bowl in Ho?

16 MS. ACHARYA: Objection; form.

17 THE WITNESS: No.

18 BY MR. FINCH:

19 Q. What other ways does water go from the  
20 toilet fill valve to the bowl in Ho?

21 A. I mean, you can go from the tank -- you  
22 can go from the tank to the bowl when you flush,

1 of course. But, again, I don't think anyone is  
2 suggesting that you're going to operate a toilet  
3 without refilling the bowl.

4 Q. Turn to Figure 1 of Ho.

5 A. Okay.

6 Q. Ho's diverter valve directs water to the  
7 rim flushing conduit via a tube labeled 40 in  
8 Figure 1; correct?

9 A. Correct.

10 Q. And Ho also refills the toilet bowl via  
11 a tube numbered 57; correct?

12 A. Well, so -- just to be clear, so when  
13 you flush, it will go through -- you know, you  
14 will have water going through 57 in order to flush  
15 the toilet, but then that's not used to, like,  
16 refill the toilet.

17 Q. Dr. Cameron, can you provide me with an  
18 example of a toilet fill valve that you would say  
19 does not assist with eliminating water wastage?

20 MS. ACHARYA: Objection; form.

21 THE WITNESS: Well, if you don't have  
22 something that's controlling the amount of water

1 delivered to the bowl.

2 BY MR. FINCH:

3 Q. So is it your opinion that any device  
4 which controls the amount of water delivered to  
5 the bowl has a secondary impact of eliminating  
6 water wastage?

7 A. I would probably want to look at the  
8 reference to commit to that for sure.

9 Q. Dr. Cameron, I'm not talking about a  
10 specific reference. I'm trying to understand what  
11 it is you mean when you say "eliminating water  
12 wastage."

13 What does it mean to you to eliminate  
14 water wastage in a toilet system?

15 A. You're controlling the amount of water  
16 that's delivered to the bowl so that you have less  
17 water that you don't need.

18 Q. Let's go back to Tab B, the supplemental  
19 declaration for the '993 patent.

20 A. Okay.

21 Q. Let's turn to paragraph 27, please.

22 A. Okay.

1 Q. And in paragraph 27, you state, To the  
2 extent that the page/line citations to  
3 Exhibit 1016 are inconsistent with the page/line  
4 citations in Exhibit 2007, I have herein referred  
5 to Exhibit 2007 for the convenience of the reader;  
6 is that correct?

7 A. That's correct.

8 Q. Why did you make the decision to refer  
9 to Exhibit 2007?

10 A. I think just so we're on the same page  
11 and we know what we're talking about.

12 Q. Was Exhibit 1016 unclear?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: I don't remember  
15 specifically anymore, but I have a general  
16 recollection that there was some confusion about  
17 page numbers, so I think I just wanted to have  
18 some baseline so that we're on the same page.

19 BY MR. FINCH:

20 Q. So you felt that Exhibit 1016 caused  
21 some confusion about page numbers, and you wanted  
22 to eliminate that confusion?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: No, I think -- I don't  
3 really remember specifically anymore, but I -- I  
4 don't remember specifically, but overall, I just  
5 wanted to have the same -- make sure we were  
6 looking at the same thing.

7 BY MR. FINCH:

8 Q. And I'm just reading your testimony back  
9 to you, but you said you had a general  
10 recollection that there was some confusion about  
11 page numbers, and that confusion was caused by  
12 Exhibit 1016; correct?

13 A. I don't know that it was caused by  
14 Exhibit 1016. I just had a general recollection  
15 of someone complaining about page numbers. So I  
16 wanted to make sure we were looking at the same  
17 thing here.

18 MR. FINCH: Can we pull up Tab J,  
19 Exhibit 1016, please.

20 (Exhibit 1016, Previously Marked.)

21 THE WITNESS: Okay. I have that open.

22

1 BY MR. FINCH:

2 Q. And, Dr. Cameron, can you turn to  
3 page 2, please, and read the top line of page 2  
4 for me.

5 THE VIDEOGRAPHER: 2 of the PDF or 2 of  
6 the pagination?

7 MR. FINCH: Whichever Dr. Cameron would  
8 prefer. Whatever her understanding is of the  
9 question.

10 THE WITNESS: Could you read me the  
11 question again, I'm sorry.

12 BY MR. FINCH:

13 Q. Could you please turn to page 2, and  
14 read the top line of page 2 for me?

15 A. Do you want me to read -- am I counting  
16 the linguist certification?

17 Q. Can you please turn to page 2, and read  
18 the top line of page 2 for me?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: Do you want me to include  
21 the linguist certification?

22

1 BY MR. FINCH:

2 Q. No.

3 A. Claim 1, "A toilet water tank supply  
4 switching device, including a water inlet, with  
5 the following characteristics: the water inlet is  
6 fitted with a secondary ball float with a hollow  
7 slot beneath."

8 Q. And, Dr. Cameron, the page that you're  
9 currently reading from states page 1 at the bottom  
10 of it; correct?

11 A. It does have a number 1 at the bottom,  
12 yes.

13 Q. And it also states page 003 at the  
14 bottom of it; correct?

15 A. That's correct.

16 Q. And this was your understanding of  
17 page 2 of the document, as well; is that correct?

18 A. Well, right now I included the -- kind  
19 of the cover page, I guess, as 1. Because I was  
20 asking you if we should include the linguist. So  
21 I assumed you meant to count the utility model --  
22 like the cover page as 1, and the next one as 2.

1 I can read from the next one, as well, if you  
2 like.

3 Q. Can you turn to the page that we were  
4 just on that's labeled page 003 in the bottom  
5 right corner?

6 A. Yes.

7 Q. And this says, 1 at the bottom, as well;  
8 correct?

9 A. I'm not sure what you mean "as well."  
10 That's the page I just read to you from.

11 Q. Okay.

12 A. But yes --

13 Q. But the page number at the bottom of the  
14 page --

15 A. -- it has page 1 at the bottom.

16 Q. And can you turn to the next page of the  
17 document for me, please?

18 A. Yes.

19 Q. And the page number at the bottom of  
20 this page is also 1; correct?

21 A. There is a 1 at the bottom of that page,  
22 yes.

1 Q. And this page is also labeled page 004;  
2 is that correct?

3 A. That's correct.

4 Q. And can you read line 10 of this page to  
5 me?

6 A. "Publication No. 235041 sets the  
7 secondary ball float of its water supply switching  
8 device above the guide bar, which causes a delayed  
9 action in the water supply switch."

10 Q. Why did you choose to read that line,  
11 Dr. Cameron?

12 A. I counted the lines from the top.

13 Q. And when you say "from the top," where  
14 did you start counting?

15 A. I started counting at "The present  
16 utility model relates to a toilet water tank  
17 supply."

18 Q. Is there a reason that you did not  
19 include the line above that?

20 A. I guess maybe you're right. I should  
21 have included that, too. So maybe I should have  
22 read one up. I think I didn't see that line

1 because I was just looking at the -- I was looking  
2 at the furthest edge of the left-hand side.

3 Q. And why did you decide to count lines as  
4 opposed to reading the line that is numbered 10 in  
5 the document?

6 A. I guess I thought you would have told me  
7 if you wanted to read next to the number 10 on the  
8 side. I assumed that that's what you wanted me to  
9 read.

10 Q. Dr. Cameron, you reviewed quite a few  
11 patents in your career; correct?

12 A. Yes, I have.

13 Q. And patents usually contain line numbers  
14 like the numbers 5, 10, 15, and 20 on page 004 of  
15 Exhibit 1016?

16 A. Usually the patents that I review are  
17 actually kind of in the -- like, for example, like  
18 in Ho, where I described to you that there was two  
19 columns on each page, and then the columns are  
20 numbered at the top. And then in the middle of  
21 the page, there is typically line numbers, as  
22 well.

1 Q. And when you refer to a portion of a  
2 patent, it's common to refer to it by the line  
3 number; correct?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: Yes, when it's in that  
6 format, I will refer -- often I will refer to  
7 first the column number to orient you, and then  
8 the line number.

9 BY MR. FINCH:

10 Q. But in Exhibit 1016 that we're looking  
11 at, there's a difference between what the line  
12 number indicates and what the actual line number  
13 of the page is; correct?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: Well, this is -- I guess  
16 this is a translation, and it's not in that kind  
17 of format that I described to you before that is  
18 more typical of what I see.

19 BY MR. FINCH:

20 Q. So is it your opinion that a person  
21 reviewing Exhibit 1016 would just know to ignore  
22 the line numbers that are on the page?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: Well, I guess I think a  
3 few things. One, as I did probably by default on  
4 a kind of format that I'm not as familiar with, I  
5 would probably just count the lines. I also think  
6 it would probably be clear from the context of  
7 either a citation or a person that you're talking  
8 to, you know, where you should be looking.

9 For example, if in our discussion that's  
10 not what you wanted, I would expect you to tell me  
11 to look somewhere else. Similarly, if I'm reading  
12 something with a citation, then I would be able to  
13 look there to see if that's consistent and I'm in  
14 the right spot.

15 BY MR. FINCH:

16 Q. And despite this whole discussion, do  
17 you still maintain that Exhibit 1016 does not  
18 cause any confusion?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: I don't think it's too  
21 difficult for us to get on the same page and read  
22 from whatever it is you want to direct me to, no.

1 BY MR. FINCH:

2 Q. You haven't been confused at all during  
3 this discussion?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: No.

6 MR. FINCH: Let's go ahead and pull up  
7 Tab L. This is Exhibit 1021, the Brown reference.

8 (Exhibit 1021, Previously Marked.)

9 THE WITNESS: Okay.

10 BY MR. FINCH:

11 Q. Dr. Cameron, Brown has six figures on  
12 the first page here; is that correct?

13 A. Yes.

14 Q. And Figures 1 and Figures 4 depict  
15 different toilet fill valves, according to the  
16 disclosure of Brown; is that correct?

17 A. Yes.

18 Q. And there are a couple of similarities  
19 between the Figure 1 and the Figure 4 embodiments.  
20 Both of them contain a water inlet that's labeled  
21 as 12; is that correct?

22 A. Yes.

1           Q.    And both of them contain a tube labeled  
2   28 that's going to an overflow tube labeled 11; is  
3   that correct?

4           A.    Yes.

5           Q.    Okay.  And in both instances, tube 28  
6   has some holes in it that are labeled 29; is that  
7   correct?

8           A.    Yes.

9           Q.    Okay.  What are the purposes -- what is  
10   the purpose of the holes labeled 29?

11          A.    I think that they're there just on the  
12   off chance, I guess, that your overflow tube was  
13   below the water or not working somehow.  So you  
14   have an extra secondary way for water to exit.

15          Q.    And is that what you think, or is that  
16   what Brown teaches?

17          A.    That is just from my looking at the  
18   figure, the figures, but if you want me to --  
19   well, just looking at what you asked me to, that's  
20   what I think it teaches.  But if you want me to  
21   confirm that, I can look in the text of Brown, as  
22   well.

1           Q.    And is that something you typically do  
2    when a figure is unclear, you look at the  
3    specification for additional details?

4                   MS. ACHARYA:  Objection --

5                   THE WITNESS:  I do usually read both the  
6    spec and the figures together, that's true.  So  
7    I'm happy to do that here.

8    BY MR. FINCH:

9           Q.    I'll save us a little bit of time, and  
10   I'll direct you towards the top of Column 4, which  
11   discusses the longitudinally spaced openings 29.

12          A.    I'm in Column 4.  Did you give me a line  
13   or just 4?

14          Q.    The top paragraph.  You don't need to  
15   read that had out loud, but review that paragraph,  
16   and let me know once you've read it.

17          A.    Okay.  One second.

18                   (Witness peruses the exhibit.)

19                  THE WITNESS:  Yes, that's -- yes, I've  
20   read that paragraph, and that's consistent with  
21   what I was explaining to you.

22

1 BY MR. FINCH:

2 Q. And Brown refers to the openings 29 as  
3 providing an anti-siphoning means.

4 What is an anti-siphoning means?

5 A. It's something that will basically --  
6 what's the best way to explain that. It basically  
7 provides a way to, like, break that vacuum so that  
8 you're not pulling or siphoning the water.

9 Q. And when you say "break that vacuum so  
10 that you're not pulling or siphoning the water,"  
11 what water and what vacuum are you referring to,  
12 and where would the water potentially be cycling  
13 to?

14 Can you explain that in a little more  
15 detail?

16 MS. ACHARYA: Objection; form.

17 THE WITNESS: Yeah, sure. So basically,  
18 you don't want a situation where -- so in general,  
19 you know, water can basically flow downhill based  
20 on your difference in elevation. If you have a  
21 closed tube and you can get a siphon, in fact,  
22 even if you're kind of going up and down in

1     between, even if your beginning and end point have  
2     a different elevation, so basically the siphoning  
3     effect means that you can pull water, you know,  
4     without having to, like, actively pump it or  
5     something.

6                 So here, in order to prevent that,  
7     you're basically providing the holes -- the  
8     holes 29 stop you from having that, like, closed  
9     tube that can siphon. So it breaks that ability  
10    to pull the water based on a difference in  
11    elevation by not having that be, like, a disclosed  
12    system, basically.

13   BY MR. FINCH:

14            Q.   And that prevents you from potentially  
15    siphoning water out of the toilet and back into  
16    the water supply?

17            A.   In general, you could be worried about  
18    that from siphoning, or potentially if you have a  
19    path from -- into the bowl, you could be  
20    preventing that, as well.

21            Q.   Is it important to include  
22    anti-siphoning means in a tube, such as tube 28

1 here?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: I would say if you're --  
4 in general, it's more common to just design it so  
5 that your 28 and 11 are above the water level. If  
6 you are -- for some reason haven't done that  
7 adequately and you're worried about it being below  
8 the water level, then you could provide those  
9 holes like you do here. But I would say it's more  
10 common to not have those holes.

11 BY MR. FINCH:

12 Q. And that's because where tube 28 enters  
13 into overflow tube 11 is located above the water  
14 line, and typically -- and so you don't need an  
15 anti-siphoning means?

16 A. Correct.

17 MS. ACHARYA: Objection; form.

18 THE WITNESS: Not that you don't need  
19 one, it's just that you already have one.

20 BY MR. FINCH:

21 Q. The title of Brown is "Water Silencing  
22 and Saving Means for Ball Cock Valve Assembly in

1 Toilet Flush Tank." And so Brown talks about two  
2 different things, a water silencing means and a  
3 water saving means.

4 What is your understanding of the water  
5 silencing means disclosed by Brown?

6 A. I don't -- well, you seem to think that  
7 those are completely separate. I'm not  
8 necessarily sure that's the case, but we can look  
9 through Brown and see what it says on the water  
10 silencing, if we want.

11 Q. Before we read through the reference,  
12 sitting here today, do you have an understanding  
13 of what water silencing means is in Brown?

14 A. I don't offhand remember the specific  
15 details of Brown. If you want to talk about the  
16 water silencing, we probably need to look in the  
17 spec and look at the figures.

18 Q. Okay. Offhand, you don't have any  
19 knowledge of the water silencing means in Brown?

20 A. I'm sure I did at some point when I  
21 initially reviewed Brown. Sitting here right now,  
22 I would need to look through it again.

1           Q.    Take a look Brown, and see if it  
2    refreshes your recollection regarding the water  
3    silencing means.

4                   (Witness peruses the exhibit.)

5           THE WITNESS:   Okay.   I took just a quick  
6    skim through.   I guess before we talk about your  
7    water silencing question, I just wanted to note  
8    that it also talks about not having the holes 29,  
9    and it would be normal to have, like I described,  
10   just the clips so that it's above the water level.

11   BY MR. FINCH:

12          Q.    And so you believe that it would be more  
13    common to use a clip, such as depicted in  
14    Figure 6, to hold tube 28 above the water level?

15          A.    Yes, I do.

16          Q.    Going back, what is your understanding  
17    of the water silencing means disclosed in Brown?

18          A.    I think it talks about water silencing  
19    both by changing the flow to be more laminar by  
20    adding structures, such as rods, and then it also  
21    just talks about reducing the overall noise by  
22    having less water.

1           So like I said, part of it is -- it's  
2   not like two distinct things. So I don't think of  
3   those as separate. Because, obviously, if you're  
4   reducing the amount of water, you're reducing the  
5   noise, too.

6           Q.    Okay. So your understanding is that  
7   reducing -- when you say "reducing the amount of  
8   water," are you referring to the set screw  
9   depicted in Figure 3?

10          A.    Yes.

11          Q.    And just so I understand, your testimony  
12   is that reducing the amount of water by using the  
13   set screw in Figure 3 would reduce the amount of  
14   noise, as well?

15          A.    Yes, it can. Yes.

16               MR. FINCH: I think we've been going  
17   about another hour. Let's go ahead and take  
18   another break. Do you have a preference between  
19   five or ten minutes?

20               THE WITNESS: I have no preference.

21               MR. FINCH: Let's go ahead and do  
22   ten minutes real quick.

1 THE WITNESS: Okay.

2 THE VIDEOGRAPHER: All right. The time  
3 is 11:17 a.m. We're going off the record.

4 (Recess from the record.)

5 THE VIDEOGRAPHER: The time is  
6 11:28 a.m. We're back on the record.

7 BY MR. FINCH:

8 Q. Dr. Cameron, we've talked about the  
9 concept of flow rate a couple of times today.

10 What is your understanding of the term  
11 "flow rate"?

12 A. Here, it's just the amount of water that  
13 you deliver to the bowl over the bowl cycle, over  
14 the cycle.

15 Q. Separate and apart from toilets, just in  
16 general, what does the term "flow rate" mean?

17 A. An amount of fluid over a period of  
18 time.

19 Q. And what rate is usually measured --  
20 strike that.

21 Is flow rate usually measured with  
22 respect to a particular pipe or orifice or

1 structure that water is passing through?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: Well, I mean, depending on  
4 the context of what fluid flow you have, sure.

5 BY MR. FINCH:

6 Q. And you testified earlier that the  
7 diameter of the structure water is passing through  
8 impacts the flow rate; is that correct?

9 A. Yeah.

10 Q. And the pressure of the system also  
11 impacts the flow rate; is that correct?

12 A. Yes.

13 Q. Other than diameter and pressure, are  
14 you aware of anything else that impacts flow rate?

15 A. Those are the two ones that come to  
16 mind. There's probably others.

17 Q. When you say "there's probably others,"  
18 what makes you say that?

19 A. Just because sitting right here, that's  
20 just the two things that come to my mind.

21 Q. But you're not aware of any others,  
22 sitting here today?

1           A.    Those are the things that first came to  
2   mind.

3           Q.    When you say "first came to mind," are  
4   there any things that second came to mind?

5           A.    I mean, if you want to sit here for a  
6   lot longer, then maybe something else will come to  
7   mind. Those are the things that came to mind  
8   immediately.

9           Q.    But at this point in time, you are not  
10   aware of anything other than flow rate -- or  
11   strike that.

12                    You are not aware of anything other than  
13   pressure and diameter that impact flow rate?

14                   MS. ACHARYA:  Objection; form.

15                   THE WITNESS:  I wouldn't say that  
16   generically.  However, I would say sitting here,  
17   those are the first things that pop into my mind.

18   BY MR. FINCH:

19           Q.    And no other things have popped into  
20   your mind at this point?

21           A.    Not in the 20 seconds that we've been  
22   talking about it, no.

1 Q. Flow rate is a measure of a volume of a  
2 liquid over a period of time; correct?

3 A. Yes.

4 Q. So the units that a person of ordinary  
5 skill in the art would use to measure flow rate  
6 would be something like liters per second or  
7 gallons per minute or some volume measure over a  
8 time measure; is that correct?

9 A. I suppose you could also think of it as  
10 a mass, amount of mass per unit time. So it could  
11 be reported that way, as well.

12 Q. And when you say "mass," you mean --  
13 what do you mean by that?

14 A. You don't know what "mass" is?

15 Q. Dr. Cameron, when you say, "I suppose  
16 you could also think of it as a mass, amount of  
17 mass per unit of time," what is it that you mean  
18 by that?

19 A. I'm not sure of a more simple -- what is  
20 it that you don't understand? To me, those are,  
21 like, the most simple terms I could think of.

22 Q. Can you provide an example of a flow

1 rate where you're referring to the mass and not  
2 the volume?

3 A. So, like, you can have -- you could be  
4 measuring something like in kilograms and how many  
5 kilograms are passing through over a period of  
6 time as one example.

7 Q. Does a person of ordinary skill in the  
8 art typically measure flow rate using volume or  
9 mass?

10 A. It depends on the application.

11 Q. And which applications would a person of  
12 ordinary skill in the art measure using mass?

13 A. Sometimes if you're more concerned about  
14 the weight of the product that you're delivering,  
15 you might measure it in terms of mass for a period  
16 of time.

17 Q. Let's take an example here, and let's  
18 say that we're filling up a sink or a bathtub or  
19 some structure of that nature, if you turn on the  
20 faucet and water is running through the faucet,  
21 that water would have a flow rate; correct?

22 MS. ACHARYA: Objection; form.

1 THE WITNESS: Yes, you could measure,  
2 like, how much water goes into your sink, for  
3 example, over a period of time, yes.

4 BY MR. FINCH:

5 Q. And assuming the pressure in the system  
6 doesn't change and assuming that the diameter of  
7 the faucet doesn't change, the flow rate is going  
8 to stay constant so long as the faucet is open;  
9 correct?

10 MS. ACHARYA: Objection; form.

11 THE WITNESS: And you haven't made any  
12 other changes to your system, yes.

13 BY MR. FINCH:

14 Q. And so if a faucet is open for  
15 10 seconds or for 20 seconds, that doesn't impact  
16 the flow rate of the water passing through the  
17 faucet; correct?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: As long as everything --  
20 as long as you haven't changed anything in your  
21 system, then the flow rate you calculate in that  
22 scenario would be the same whether you consider 10

1 or 20 seconds.

2 BY MR. FINCH:

3 Q. And that's -- say you use the same  
4 faucet and the same water supply and the same  
5 pressure and the same diameter, but you just make  
6 the bathtub bigger, is that going to impact the  
7 flow rate of the water flowing through the faucet?

8 MS. ACHARYA: Objection; form.

9 THE WITNESS: Again, as long as you  
10 haven't changed anything else in your system, then  
11 it shouldn't matter the size of your sink.

12 BY MR. FINCH:

13 Q. And so if water is flowing through the  
14 faucet at 5 liters per second and the faucet is  
15 opened for 5 seconds, you would expect 25 liters  
16 to flow through it; correct?

17 A. I think that math is correct, yes.

18 Q. And if the faucet -- same faucet, water  
19 is flowing through it at 5 liters per second but  
20 this time it's open for 10 seconds, now we expect  
21 50 liters of water to flow through it?

22 A. That's correct.

1           MR. FINCH: Let's go ahead and pull up  
2   Tab C. This is Paper 30, petitioner's reply in  
3   the '633 IPR.

4           (Paper 30 Introduced.)

5           THE WITNESS: Okay. I have that open.

6   BY MR. FINCH:

7           Q. And, Dr. Cameron, have you seen this  
8   document before?

9           A. I have seen a document like this. I  
10   don't know if it was this specific one.

11          Q. And, Dr. Cameron, I'll represent to you  
12   that this is a paper that Fluidmaster filed with  
13   the PTAB, and it refers back to your supplemental  
14   declaration for the '993 patent.

15          A. Okay.

16          Q. Did you help to draft this document?

17          A. No -- well, to the extent that anything  
18   from my declaration was incorporated into here, if  
19   you have that in mind, then there's likely that;  
20   but I did not, like, write this document  
21   separately.

22          Q. You didn't write the words that are

1 found in this document?

2 A. Correct. Well, I mean, again, I'm not  
3 trying to be super picky, but to the extent that,  
4 like, things from my declaration were imported  
5 into here, then, like, maybe I was the original  
6 author; but I was not, like, the one that typed  
7 them into this document.

8 Q. Can you turn to page 25 of this  
9 document, please.

10 MR. FINCH: And for Daniel, we're  
11 referring to page No. 25 at the bottom of the  
12 page, not --

13 THE VIDEOGRAPHER: Oh, pagination, not  
14 PDF. Got you.

15 MR. FINCH: Correct.

16 THE WITNESS: I'm on the page that has  
17 25 at the bottom.

18 BY MR. FINCH:

19 Q. Okay. And the third paragraph here  
20 states, "Although the '606 Application mentions  
21 numerous types of valves that existed in the prior  
22 art, the specification repeated identifies only

1     adjustability as an inventive feature of the  
2     claimed 'bowl fill valve.'

3             Do you agree with this statement?

4             A.     Yes.

5             Q.     What does it mean to you that  
6     adjustability is an inventive feature of the  
7     claimed bowl fill valve?

8             MS. ACHARYA:  Objection; form.

9             THE WITNESS:  That that is what the  
10    description of the invention is focused on in the  
11    specification of that application.

12    BY MR. FINCH:

13            Q.     And the invention here was to use an  
14    adjustable bowl fill valve as opposed to a fixed  
15    bowl fill valve?

16            A.     Yeah, an adjustable one, correct.

17                   Adjust -- sorry, I'm not sure I  
18    understood your question, but -- maybe you should  
19    ask it again, but what I will say is that, yes,  
20    that application discusses the invention as  
21    just -- in terms of the adjustability.

22            Q.     And --

1           A.    And the bowl fill valve is adjust -- is  
2   adjustable.

3           Q.    And to make sure the record is clear,  
4   the inventive feature that this is referring to is  
5   the concept of using an adjustable bowl fill valve  
6   as opposed to a fixed restricter?

7           MS. ACHARYA:  Objection; form.

8           THE WITNESS:  Using a bowl fill valve,  
9   which is adjustable, as opposed to a device that  
10   is not adjustable, correct.

11           MR. FINCH:  Let's go back to Tab B.  
12   This is Dr. Cameron's supplemental declaration for  
13   the '993 patent.

14           THE WITNESS:  Did you say Tab B?

15   BY MR. FINCH:

16           Q.    B as in boy.

17           A.    Yeah, okay.  I'm in B now.

18           Q.    And let's turn to paragraph 16.

19           A.    Yes.

20           Q.    Okay.  And in paragraph 16, you state  
21   that you were never asked whether you understood  
22   the term "integrally molded," as recited in the

1 '993 patent, to refer only to plastic structures.

2 And so my question for you is: Do you  
3 understand the term "integrally molded" in the  
4 challenged patents to refer only to plastic  
5 structures?

6 A. No.

7 Q. What is your understanding of the term  
8 "integrally molded"?

9 A. So I guess I'm just using the -- what  
10 the board has said, which is molded together as a  
11 single structure.

12 Q. Okay.

13 A. There's also -- of course, the board  
14 explained that that would exclude items that are  
15 created as separate pieces and then later attached  
16 together.

17 Q. Let's go ahead and take a look at  
18 paragraph 17.

19 My question is: Do you understand that  
20 the challenged patents or their claims to be  
21 limited to a particular category of material  
22 compositions?

1           A.     No.

2           Q.     And so, hypothetically, if someone  
3     chiseled a fill valve and an extended portion out  
4     of a block of wood, would you understand that  
5     material composition to be covered by the  
6     challenged patents?

7                     MS. ACHARYA:  Objection; form.

8                     THE WITNESS:  I don't think the patents  
9     exclude any particular material compositions.

10          BY MR. FINCH:

11          Q.     So you don't believe that the patents  
12     would exclude a fill valve and an extended portion  
13     that were chiseled out of wood?

14                     MS. ACHARYA:  Objection; form.

15                     THE WITNESS:  While I don't think that  
16     that -- while I don't think that a person of  
17     ordinary skill in the art would contemplate making  
18     a toilet fill valve out of wood, so I don't -- I  
19     don't -- at the same time, I don't think that  
20     there's any restriction on what the material can  
21     be, although I agree that a person of ordinary  
22     skill in the art would not by default be thinking

1 that you would make a toilet fill valve out of  
2 wood.

3 BY MR. FINCH:

4 Q. And for the record, I agree with you  
5 that a person of ordinary skill in the art  
6 probably wouldn't make such a structure out of  
7 wood, but I understand your testimony that you  
8 believe such a structure would still be covered by  
9 the challenged patents.

10 MS. ACHARYA: Objection; form.

11 THE WITNESS: I don't -- sorry.

12 I don't think that there is any  
13 exclusion of any particular materials. Again, at  
14 the same time, I do agree that a person of  
15 ordinary skill in the art would not be -- would  
16 not by default be thinking of making a toilet fill  
17 valve out of wood.

18 MR. FINCH: Let's pull up Tab M, the  
19 Exhibit 1022, the Ho reference.

20 THE VIDEOGRAPHER: You said N, as in  
21 Nancy?

22 MR. FINCH: N --

1                   THE WITNESS: I always think of M, as in  
2 not as in Nancy. I don't know what M is supposed  
3 to be in the code.

4                   MR. FINCH: I think I'll use that going  
5 forward. M, as in not Nancy.

6 BY MR. FINCH:

7           Q. And, Dr. Cameron, in your opinion, Ho  
8 discloses a toilet fill valve with a body;  
9 correct?

10          A. With a what?

11          Q. A big body?

12          A. Yes.

13          Q. Okay. And can you take a look at  
14 Figure 2, and describe for me which portion of the  
15 figure you believe depicts the body of the fill  
16 valve?

17          A. I think it's like number -- I'm sorry,  
18 what number are we on?

19          Q. So I'm looking at --

20          A. Figure 1, maybe.

21          Q. -- 2.

22          A. 2. I don't know that it's labeled with

1 a number in 2, but it's -- I don't think it has a  
2 specific number in Figure 2, but it might in the  
3 other figures, and then you can correlate where it  
4 is. I don't know how you want to do that.

5 Q. If there's a reference numeral you can  
6 point me to, that's fine. And if you want to just  
7 describe which part you believe is the body of the  
8 toilet fill valve, that's also fine.

9 A. Okay. Actually, I'm not sure there is a  
10 number, but if you look at the structure that's to  
11 the right -- or to the left, sorry, the left of  
12 30 -- is that right? Yeah. So to the -- if you  
13 look at the structure to the -- basically to the  
14 left of 30.

15 Q. Okay. Just so that the record is clear  
16 and we're all on the same page, what is your  
17 understanding of what the numeral 30 is pointing  
18 to here?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: The diverter valve means,  
21 it's called.

22

1 BY MR. FINCH:

2 Q. Okay. And the structure you're  
3 referring to as the body of the toilet fill valve,  
4 does it have vertical lines, horizontal lines, or  
5 both in it in Figure 2?

6 A. Well, like, the -- it has -- on some  
7 parts of it, it has -- you can see, like, vertical  
8 lines. And then in the cross section, you can see  
9 that it has, like, diagonal lines.

10 Q. Dr. Cameron, which figure are you  
11 looking at?

12 A. 2 -- oh, sorry, I'm on 3. My mistake.  
13 I was on 3. Do you want me to go back to 2?

14 Q. I just want to make sure we're talking  
15 about the same components. I know some of these  
16 things aren't labeled explicitly in the figures.

17 A. Okay.

18 Q. So let's take a look back at 2 --

19 A. Yeah, I'm on 3. I'm on Figure 3, and it  
20 has -- there's like -- on the part that's not in  
21 cross section, there are some vertical lines, and  
22 then in the part that's in -- portion that's in

1 cross section where it's -- you know, so you can  
2 see it, then there's diagonal lines.

3 Q. Okay. And Figure 3 has a float labeled  
4 35; correct?

5 A. Yes.

6 Q. And is the structure you're referring to  
7 as the body of the toilet fill valve what is  
8 directly above the float labeled 35?

9 A. Yes.

10 Q. Okay. And if we flip back to Figure 2,  
11 neither the float nor that structure are labeled,  
12 but is it fair to say that Figure 2 depicts the  
13 same float and what you're referring to as the  
14 body of the toilet fill valve?

15 A. I think it's easier to see in Figure 3,  
16 but if you -- if you look at Figure 3 with my  
17 description of the diagonal lines, plus the part  
18 that's plus being above 35, and then you look at  
19 Figure 2, you can see what -- you know, from the  
20 outside what parts are the body.

21 Q. Sorry, Figure 2 depicts an inlet pipe  
22 labeled 21; correct?

1 A. Yes.

2 Q. There is a float attached to that inlet  
3 pipe, which is not labeled; correct?

4 A. That's correct.

5 Q. And the portion you're referring to as  
6 the body of the toilet fill valve is directly over  
7 that float; correct?

8 A. Well, it's above the float, but as I  
9 said, to make sure that it's clear, when you look  
10 at Figure 3, there's the part that has the  
11 diagonal lines on it, and then there's the part  
12 that's not in cross section. That's the body, and  
13 that -- you can correlate where that is in  
14 Figure 2.

15 Q. And you also testified that Ho discloses  
16 an extended portion of the body of the fill valve;  
17 is that correct?

18 A. Yes.

19 Q. Okay. And in Figure 2, is that  
20 structure that you referred to as the extended  
21 portion depicted with a single horizontal line in  
22 it?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: I'm not sure what you  
3 mean. So just to be clear, it's a lot easier if  
4 you look at Figure 3. So in Figure 3, you can  
5 see -- because it puts a part in cross section.  
6 So you can see where the extended part is that the  
7 valve is being inserted into.

8 BY MR. FINCH:

9 Q. Dr. Cameron, can you please tell me  
10 which portion on Figure 2 you believe is the  
11 extended portion of the body of the toilet fill  
12 valve?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: So, again, if you look at  
15 3 and correlate between them so that you can see  
16 where it is, it's the portion where there is  
17 diagonal lines. And then you can see where that  
18 extends from the main body. And then that becomes  
19 clear when you look at Figure 2, because those are  
20 the same structures there, just not in -- not  
21 showing the cross section.

22

1 BY MR. FINCH:

2 Q. Is it your opinion that the extended  
3 portion you just described is a molded structure?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: Yes.

6 BY MR. FINCH:

7 Q. And remembering that you're under oath  
8 today, are you 100 percent sure that that extended  
9 portion is a molded structure?

10 A. Yes, I can tell that that's integrally  
11 molded there because of the crosshatching.

12 Q. Okay. And I'm not referring to whether  
13 or not it's integrally molded, but just whether  
14 it's molded at all.

15 Are you 100 percent sure that the  
16 extended portion is a molded structure?

17 MS. ACHARYA: Objection; form.

18 THE WITNESS: I mean, in general, I  
19 don't like to say I'm 100 percent sure of  
20 anything, but my understanding, based on looking  
21 at this, is that that is a molded structure, yes.

22

1 BY MR. FINCH:

2 Q. Okay. But there isn't anything in the  
3 specification that indicates that that structure  
4 is molded; is there?

5 A. It doesn't specifically say that it's --  
6 I don't think it specifically uses the words  
7 "integrally molded" or "molded," but from my  
8 looking at the figures and the description, that  
9 is my understanding.

10 Q. And what is it from the figures and the  
11 description specifically that leads to your  
12 understanding that that is a molded structure?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: Because that is  
15 typically -- that's typically how these are made,  
16 and there's nothing in here that to indicate that  
17 this is anything other than normal.

18 BY MR. FINCH:

19 Q. And when you say "that's typically how  
20 these are made," you're referring to extended  
21 portions of toilet fill valves in 1997?

22 MS. ACHARYA: Objection; form.

1 THE WITNESS: Yes.

2 BY MR. FINCH:

3 Q. And do you have a lot of experience with  
4 how toilet fill valves were typically made in  
5 1997?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: Yes, I have a general  
8 understanding of the historical progression of  
9 things like that, yes. And also as I mentioned, I  
10 think that the crosshatching here also indicates  
11 to me that that's integrally molded.

12 BY MR. FINCH:

13 Q. And, Dr. Cameron, again, I'm not asking  
14 you whether or not it's integrally molded. I'm  
15 asking you whether it's molded at all.

16 And what about the crosshatching  
17 indicates to you that it is a molded structure?

18 A. Because I expect a part like this to  
19 be -- I mean, you could take away "integrally" if  
20 you want, but molded or integrally molded based on  
21 this imagine.

22 Q. And when you say "a part like this," you

1 mean any part in a toilet fill valve?

2 A. This part of the toilet fill valve, yes.

3 Q. And why do you expect that to be

4 integrally molded or just molded at all?

5 A. Because that is typically -- that is  
6 typically what this is, and I don't see anything  
7 in this description or figure that indicates to me  
8 that this is abnormal.

9 Q. Okay. And you didn't do any analysis in  
10 any of your declarations to show that this is a  
11 molded structure; did you?

12 MS. ACHARYA: Objection; form.

13 THE WITNESS: I do think I explained in  
14 my -- I do think I said in my declarations that  
15 that was integrally molded.

16 BY MR. FINCH:

17 Q. Which declaration do you think that's  
18 in?

19 A. Probably all three.

20 Q. I guess let me rephrase the question.

21 Do you think that's your first  
22 declaration or your second declaration?

1           A.    I think both.

2                   MR. FINCH:   And can we pull up Tab A,  
3   which is Dr. Cameron's first declaration in the  
4   '993 patent.

5                   (Exhibit 1004, Previously Marked.)

6   BY MR. FINCH:

7           Q.    And, Dr. Cameron, once you have this  
8   document, can you please show me where you  
9   analyzed that the extended portion is a molded  
10   structure?

11                  MS. ACHARYA:  Objection; form.

12                  THE WITNESS:  Sorry, Tab A, did you say?

13   BY MR. FINCH:

14           Q.    That's correct.

15           A.    Without other -- sorry, which reference  
16   was that with respect to?

17           Q.    Dr. Cameron, the Ho reference that we've  
18   been talking about.

19           A.    Oh, okay.  Thanks.

20                   I think for Ho, it's on, let's see --  
21   well, I have it shown in a figure on page 87 and  
22   on page 89, 101, 107.  There might be more, but at

1 least those.

2 Q. Let's take a look at page 87. And on  
3 page 87, you circle part of Figure 2 in blue, and  
4 you have a label that says, "Integrally molded  
5 extended portion"; correct?

6 A. Correct.

7 Q. Nothing on this page explains why you  
8 believe that that is a molded structure; does it?

9 A. There's not text on this page for that,  
10 but, I mean, it's pointing to where that is in the  
11 figure.

12 Q. And what is it about that figure that  
13 makes you believe that's a molded structure?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: It's how a person of  
16 ordinary skill in the art would understand that  
17 figure. I don't know why there's confusion about  
18 that, I guess.

19 BY MR. FINCH:

20 Q. And you don't explain anywhere what  
21 would lead a person of ordinary skill in the art  
22 to believe that that is a molded figure; do you?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: On that figure, I'm just  
3 showing you where that is on the figure in Ho,  
4 which is how a person of ordinary skill in the art  
5 would understand that.

6 BY MR. FINCH:

7 Q. And that's just something a person of  
8 ordinary skill in the art would know, and there's  
9 nothing that they would consider or that you wrote  
10 anywhere that would explain that?

11 MS. ACHARYA: Objection; form.

12 THE WITNESS: I think on that page, I  
13 don't have any additional text, but I think that a  
14 person of ordinary skill in the art understands  
15 that that is an integrally molded extension  
16 portion that I circled in blue.

17 BY MR. FINCH:

18 Q. A person of ordinary skill in the art  
19 would just know it when they look at the figure.

20 A. They would know that from looking at the  
21 figure.

22 MS. ACHARYA: Objection; form.

1                   Sorry, Dr. Cameron, go ahead.

2                   THE WITNESS: Sorry.

3   BY MR. FINCH:

4           Q.   And you said on that page you don't have  
5   any other text.

6                   Is there anywhere else where you have  
7   text that explains why a person of ordinary skill  
8   in the art would know that is a molded structure,  
9   other than just looking at the figure?

10          A.   I think I do have -- do you want to give  
11   me the numbers I gave you just to save time?

12          Q.   Yeah. You listed 87, 89, 101, and 107.

13          A.   89. What was the other one after 89,  
14   1-0 --

15          Q.   101.

16          A.   Hold on, let me just look at one at a  
17   time.

18                   What was after 101?

19          Q.   107.

20                   (Witness peruses the exhibit.)

21                   THE WITNESS: I think if you look on

22   page 89, here I'm explaining -- yeah, I guess in

1 paragraph 230, I have a little bit of an  
2 explanation in the text, in addition to having it  
3 circled.

4 BY MR. FINCH:

5 Q. And could you read the portion that you  
6 believe is the explanation for me?

7 A. Sure.

8 Brown's extended portion 23 is integral  
9 to the toilet fill valve once attached via  
10 threaded opening 21 in view of Petitioner's claim  
11 construction. Alternatively, it would have been  
12 obvious to mold the toilet fill body of Brown  
13 together with the extended portion 23 in a single  
14 mold, given the more recently developed molding  
15 techniques that were not readily available in 1959  
16 when Brown was filed. Moreover, Ho discloses  
17 integrally molded outlets on a toilet fill valve  
18 body that are attached to a water flow regulator,  
19 thereby rendering obvious integrally molded  
20 extended portion 23 with the toilet fill valve  
21 body of Brown. Below I have labeled the toilet  
22 fill valve, the extended portion, and the outlet

1 part.

2 Q. Dr. Cameron, you state that Ho discloses  
3 integrally molded outlets, but you don't actually  
4 explain that it is -- how you know that it is  
5 molded; do you?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: Well, yes, because a  
8 person of ordinary skill knows that, because I've  
9 kind of gave a little more context in this  
10 paragraph. You know, maybe in 1959, the molding  
11 techniques are such that you might have separate  
12 parts molded and then attached together.

13 By the time of Ho, it's understood that  
14 those parts are made -- you know, are molded  
15 together. And in addition to being able to see  
16 that, you know, in the cross section.

17 BY MR. FINCH:

18 Q. Okay. So just to make sure I  
19 understand, your testimony is that a person of  
20 ordinary skill in the art would look at this  
21 Figure 2, and they would know that the integrally  
22 molded portion is, in fact, molded -- strike that.

1 Let me try again.

2 To make sure I understand your  
3 testimony, a person of ordinary skill in the art  
4 would look at Figure 2, and they would know that  
5 the extended portion is a molded structure just a  
6 by stop of looking at the figure; correct?

7 MS. ACHARYA: Objection; form.

8 THE WITNESS: Yes, by looking at the  
9 figure and also by reading the reference, you  
10 understand -- a person of ordinary skill in the  
11 art understands that in 1959, going forward, what  
12 you would assume those figures are showing is the  
13 molded -- you know, integrally molded in Ho,  
14 potentially not earlier in Brown when molding  
15 techniques were not as good.

16 But over that time period, a person of  
17 ordinary skill in the art would expect that part  
18 to be -- to be molded.

19 BY MR. FINCH:

20 Q. And so I want to make sure I'm  
21 understanding.

22 The whole scope of your testimony is

1     that a person of ordinary skill in the art would  
2     look at this Figure 2, and they would know that it  
3     is molded -- that the extended portion is a molded  
4     structure because it is 1997; correct?

5                 MS. ACHARYA:  Objection; form.

6                 THE WITNESS:  I would phrase it slightly  
7     different.  I mean, it's not incorrect, but I  
8     would phrase it slightly differently, in that a  
9     person at that time period would understand that  
10    those valves -- that portion of a valve is molded.  
11    And they would also understand that earlier in  
12    time, like 1959, when the techniques were not as  
13    developed, that you may have, you know, parts that  
14    are molded separately and then put together,  
15    because of the technology available at that time.

16                At the same time, if you're now in 1997,  
17    making a valve based on what you're reading in  
18    Brown, then you are going to not be constrained by  
19    the molding techniques that were available in  
20    1959.  And that part would be not just molded, but  
21    integrally molded.

22

1 BY MR. FINCH:

2 Q. Was every toilet valve made in 1997 made  
3 with a molded piece?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: I would say generically,  
6 before we were -- had better techniques of  
7 molding, there may have been -- sorry, can you  
8 actually repeat your question? I want to make  
9 sure I'm answering the right thing.

10 BY MR. FINCH:

11 Q. Sure.

12 In 1997, would every toilet fill valve  
13 have been made using molded structures?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: I would say that by and  
16 large, you would expect it to be made -- you would  
17 expect it to be injection molded. I think there  
18 are likely some maybe commercial or other  
19 applications where you might find one that's not.

20 At the same time, again, looking at the  
21 reference Ho, a person of ordinary skill in the  
22 art would understand that to be molded.

1 BY MR. FINCH:

2 Q. And that's even though you testified  
3 earlier that the specification doesn't disclose  
4 that this is a molded structure; correct?

5 A. It does not specifically --

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: -- say "molded." And,  
8 yes, that is still my opinion.

9 BY MR. FINCH:

10 Q. How would this figure look differently  
11 if the extended portion were not a molded  
12 structure?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: If that structure in Ho  
15 was not molded, I would expect that that would be  
16 not how it would be understood, and I would expect  
17 there to be a specific callout explaining why  
18 that's not the case.

19 BY MR. FINCH:

20 Q. So you assume that it's a molded  
21 structure and -- unless the reference explicitly  
22 states otherwise?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: I think that that --

3 looking at Ho, the person of ordinary skill in the

4 art, yes, I would assume that that is molded.

5 That's how I would understand it.

6 BY MR. FINCH:

7 Q. And the only thing that --

8 A. If -- sorry.

9 Q. Go ahead.

10 A. Sorry, I lost my train of thought. You

11 can go ahead.

12 Q. The only thing that would convince you

13 that this is not a molded structure would be if

14 the reference explicitly called out that it was

15 not molded?

16 MS. ACHARYA: Objection; form.

17 THE WITNESS: That is how a person of

18 ordinary skill in the art would understand Ho,

19 would be that that structure is molded. To convey

20 something besides that, I would expect Ho to have

21 specifically called that out, yes.

22

1 BY MR. FINCH:

2 Q. And turning back to page 87 of the  
3 declaration, I just want to confirm that all you  
4 do on this page is identify what you believe is  
5 the integrally molded extended portion.

6 There's nothing that explains why you  
7 believe that on this page; correct?

8 A. On this page does not have the further  
9 text that I pointed you to before. This just is  
10 showing you with the blue circle where the  
11 integrally molded extended portion is in Ho.

12 Q. Did you know Mr. or Mrs. Ho, the  
13 inventor of this reference?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: No.

16 BY MR. FINCH:

17 Q. Did you know the patent attorney who  
18 prosecuted this reference?

19 A. I did not.

20 Q. Do you have any knowledge not present in  
21 the reference itself that would lead you to  
22 believe that this is a molded structure?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: Can you repeat that  
3 question?

4 BY MR. FINCH:

5 Q. I'll ask a different one.

6 Were you involved in any way of the  
7 drawing of the figures in Ho?

8 MS. ACHARYA: Objection; form.

9 THE WITNESS: No.

10 BY MR. FINCH:

11 Q. So you don't know the subjective intent  
12 of what they intended to convey with this figure,  
13 did you?

14 MS. ACHARYA: Objection.

15 THE WITNESS: I don't know why that  
16 would matter, but I obviously do not have -- I'm  
17 not inside the brain of the attorney or Ho.

18 BY MR. FINCH:

19 Q. You don't know why it would matter what  
20 the inventor intended to convey?

21 A. Well, for me --

22 MS. ACHARYA: Objection; form.

1                   THE WITNESS: For me, I'm looking at  
2    what's actually there in terms of patent  
3    specification and the prosecution history and what  
4    that conveys to a person of ordinary skill in the  
5    art. If, for example, Ho is thinking in his head  
6    that something is red and he writes down that it's  
7    blue, I'm not -- you know, I guess that's not  
8    really my purvey, but I would assume it doesn't  
9    really matter whether he originally had red in his  
10   mind when he wrote down blue.

11                  For me -- regardless of how that works,  
12   I'm just telling you what my opinion is based on  
13   what a person of ordinary skill in the art would  
14   understand when they look at, read Ho and, of  
15   course, the -- and entire prosecution history.

16   BY MR. FINCH:

17           Q.   Do you have an opinion as to -- strike  
18   that.

19                  Sticking with page 89 -- sorry, sticking  
20   with page 87, my apologies.

21           A.   All right. Let me go back. Okay.

22           Q.   There's no explanation of why you

1 believe the blue portion is an integrally molded  
2 extended portion on this page; correct?

3 A. On this page, it's just showing where  
4 that is in Ho, which I circled the extended  
5 portion in blue.

6 Q. Do you have an opinion as to what  
7 material that extended portion is made of?

8 MS. ACHARYA: Objection; form.

9 THE WITNESS: I don't know the exact --  
10 it is not said in Ho what the exact composition  
11 is.

12 BY MR. FINCH:

13 Q. Ho doesn't explain the composition of  
14 that material; correct?

15 A. It does not specify the exact  
16 composition, that is correct.

17 Q. As a person of ordinary skill in the  
18 art, do you have any understanding as to what the  
19 material composition of that structure is?

20 A. I don't know precisely what the  
21 composition is, no.

22 Q. When you say "I don't know precisely,"

1 what do you mean?

2 A. I don't know the -- I don't know the --  
3 I don't know the exact material composition. I  
4 don't know the material composition.

5 Q. You have no understanding of the  
6 material composition of that structure?

7 A. That -- that's not specified in Ho,  
8 that's correct.

9 Q. Okay. Dr. Cameron, would you say you've  
10 looked at a lot of patent figures over your  
11 career?

12 A. Yes.

13 Q. You ever -- let me try again.  
14 Do you have any U.S. patents in your  
15 name?

16 A. Yes.

17 Q. Okay. Did you participate in drafting  
18 those patents?

19 A. Some -- yeah, some of them I -- yes.  
20 Some, yes.

21 Q. And did you ever prepare any drawings  
22 for a U.S. patent?

1 A. Yeah.

2 Q. Okay. Are you familiar with the Manual  
3 of Patent Examining Procedure, which is often  
4 abbreviated as the MPEP?

5 A. Yeah.

6 Q. Is that a document you've looked at  
7 before?

8 A. Yes.

9 MR. FINCH: Let's go ahead and pull up  
10 Tab Q, which is Chapter 600 of the MPEP.

11 (Chapter 600 Introduced.)

12 MS. ACHARYA: I'm going to go ahead and  
13 object to this exhibit to the extent that it has  
14 not been marked previously, and I have no idea  
15 whether this is from the MPEP or not.

16 THE WITNESS: What -- sorry, what letter  
17 was that?

18 BY MR. FINCH:

19 Q. It's Tab Q. It should have just been  
20 added. You may have to refresh.

21 A. I don't have that still.

22 Oh, I have it now.

1 MS. ACHARYA: And I'll just add for the  
2 record, I'm going to object to any line of  
3 questioning on the exhibit that's been presented  
4 as Tab Q on the basis that the exhibit has not  
5 been presented previously.

6 THE WITNESS: I have that open, but I  
7 think you told me to go somewhere and I can't  
8 remember where that was.

9 BY MR. FINCH:

10 Q. I haven't actually told you to go  
11 anywhere yet. So --

12 A. Okay. Then I have it open.

13 Q. And, Dr. Cameron, you testified that  
14 you're familiar with the MPEP; is that correct?

15 A. I certainly don't profess to have  
16 memorized everything in it. In general, I have  
17 seen it and know what it is generically.

18 Q. I don't think anyone would profess to  
19 have memorized the entire thing, but can you  
20 explain to me what your prior experience with the  
21 MPEP was?

22 A. So I'm also a patent agent, and I have

1 reviewed the MPEP in the process of becoming a  
2 patent agent.

3 Q. And let's turn to page 175 of the PDF  
4 that is Tab Q.

5 And, Dr. Cameron, once you get there,  
6 can you read the last paragraph on this page for  
7 me?

8 A. "The following symbols should be used to  
9 indicate various materials where the material is  
10 an important feature of the invention. The use of  
11 conventional features is very helpful in making  
12 prior art searches."

13 Q. And can you turn to the next page for  
14 me, please?

15 A. Yes.

16 Q. And this page indicates a number of  
17 different material compositions based off of  
18 crosshatching patterns; is that correct?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: I'm not sure exactly what  
21 the elevation is referring to, but in general, I  
22 would agree with that.

1 BY MR. FINCH:

2 Q. And on the top left, it shows the  
3 drawing convention indicated by the MPEP for a  
4 section cut of a metal structure in a patent  
5 figure; is that correct?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: Can you repeat that? I  
8 didn't catch that question. Can you repeat it?

9 BY MR. FINCH:

10 Q. Sure.

11 In the top left, it shows the drawing  
12 convention indicated by the MPEP for a section cut  
13 of a metal structure in a patent figure; is that  
14 correct?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: I can see the -- I can see  
17 the word "metal" up on the upper left. I would  
18 need to review this more to refresh my memory of  
19 what the rest of this is indicating.

20 BY MR. FINCH:

21 Q. You testified that you're a patent  
22 agent; correct?

1 A. That's correct.

2 Q. And so you're authorized by the USPTO to  
3 prepare patent applications and patent drawings;  
4 correct?

5 A. I am, yes.

6 Q. And this is the type of guide that the  
7 USPTO indicates you should refer to when preparing  
8 patent drawings; isn't it?

9 A. That's correct.

10 MS. ACHARYA: Objection; form.

11 BY MR. FINCH:

12 Q. And so do you have any reason to believe  
13 that the agent who prosecuted the Ho reference  
14 didn't follow this convention?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: I think two things. One,  
17 is that this paragraph explains that you should,  
18 it doesn't say that you must. I think I have seen  
19 many, many patent drawings that do not have an  
20 indication like this with a material.

21 And, again, it also explains in the  
22 paragraph that you had me read, where -- that it

1     should be used to indicate various materials where  
2     the material is an important feature of the  
3     invention. I don't necessarily think looking at  
4     Ho, for example, it's already understood, and  
5     that's not really what the invention itself is  
6     focused on.

7             There is no mention -- or sorry, in the  
8     asserted patent, for example, there's not even any  
9     mention whatsoever of, like -- you know, that you  
10    should be using some particular material  
11    composition or some particular material like that.  
12    It's similar to Ho, where the focus of the  
13    invention is not on the specifics of a material.

14            That does not implicate needing to put  
15    something like you see in the page 176 here into  
16    your patent drawing. And I have reviewed many  
17    patent drawings over time, and I would say that  
18    it's not that common to be in a situation where  
19    you need to do this.

20            At the same time, it is true that if  
21    that is an important feature of your invention,  
22    that you can use the MPEP guide here on page 176

1 to help you convey that information, but I would  
2 not necessarily expect to see that in any of the  
3 references that I cited to or in the asserted --  
4 or in the challenged patents.

5 BY MR. FINCH:

6 Q. So is it your opinion that the material  
7 composition of the extended portion in Ho is not  
8 an important feature of the invention?

9 A. It's not the focus of the invention  
10 because a person of ordinary skill in the art  
11 already understands -- understands that. It's not  
12 the primary teaching, I would agree.

13 Q. And that's not quite the question I  
14 asked. I wasn't asking whether it was the primary  
15 teaching.

16 I'm asking whether it is an important  
17 feature of the invention that the extended portion  
18 is composed of a particular material?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: Maybe you can -- yeah,  
21 maybe you can explain exactly what you have in  
22 your mind between the difference there. I don't

1 think that the references that we were discussing  
2 was focused on the material composition.

3 BY MR. FINCH:

4 Q. Okay. So you don't think it's an  
5 important feature of the invention that the  
6 extended portion is composed of a particular  
7 material composition?

8 MS. ACHARYA: Objection.

9 THE WITNESS: I don't know exactly what  
10 you have in mind by that question. I mean, if you  
11 go back to our previous discussion, you know, I  
12 would think a person of ordinary skill in the art  
13 is not making a toilet fill valve out of wood, for  
14 example.

15 I don't necessarily know that fact. I'm  
16 saying it would be something I characterize as an  
17 important feature of the invention. I mean,  
18 that's something that a person of ordinary skill  
19 in the art understands or knows, and is obviously  
20 going to introduce a lot of issues you need to  
21 think about if you're going to attempt to do that.

22 But I don't necessarily -- at least for

1 me, that's not the phrases that I would use for  
2 that. I would not view this as an important  
3 feature of the invention. I mean, it's not what  
4 the focus or what they're trying to teach you  
5 about is.

6 BY MR. FINCH:

7 Q. And so to confirm, you don't believe  
8 that the material composition of the extended  
9 portion is an important feature of the invention?

10 MS. ACHARYA: Objection; form.

11 THE WITNESS: That's the same question  
12 that I just -- I just gave you an answer to that,  
13 but you just asked the same thing. And if it's  
14 not the same thing, then you need to explain  
15 what's different.

16 BY MR. FINCH:

17 Q. Dr. Cameron, you testified earlier that  
18 the MPEP teaches that the conventions depicted on  
19 page 176 should be used to indicate when a  
20 material is an important feature of the invention.  
21 And you also testified that you don't believe that  
22 the symbols were used in Ho's patent drawings.

1           And so the only conclusion that I can  
2   draw from that is that you don't believe that the  
3   material composition of the extended portion was  
4   an important feature of the instruction; is that  
5   correct?

6           MS. ACHARYA: Objection; form.

7           THE WITNESS: I don't agree with that  
8   generically, because it says "should," it does not  
9   say "must." And so even in the event where it is  
10   an important feature of the invention, you're not  
11   required to do that.

12   BY MR. FINCH:

13         Q.   Dr. Cameron, you consider a person of  
14   ordinary skill in the art with respect to the  
15   toilet references that we've been discussing;  
16   correct?

17         A.   Yes.

18         Q.   As a person of ordinary skill in the  
19   art, do you consider the material composition of  
20   the extended portion to be an important feature of  
21   the invention of Ho?

22         MS. ACHARYA: Objection; form.

1           THE WITNESS: Again, I do not think --  
2   with the caveat of how I've answered that similar  
3   question before, I do not think Ho is focused on  
4   the particular material composition.

5   BY MR. FINCH:

6           Q. Dr. Cameron, yes or no, is the material  
7   composition of Ho's extended portion an important  
8   feature of the invention?

9           MS. ACHARYA: Objection; form.

10          THE WITNESS: My answer is not just a  
11   yes or no, and it's the one I just gave you.

12   BY MR. FINCH:

13          Q. So you don't know whether it's an  
14   important feature of the invention or not?

15          A. That is not what I said.

16          Q. So it is an important feature of the  
17   invention?

18          MS. ACHARYA: Objection; form.

19          Counsel, you've asked this question  
20   about seven times by my count.

21          MR. FINCH: And when she answers it,  
22   I'll stop asking. So...

1 MS. ACHARYA: She's answered -- you've  
2 asked it, she's answered it over and over. And  
3 she said that she's answered it. And she's asked  
4 you to clarify if the question is different. So  
5 if it's not different and you're asking the same  
6 question, I'd suggest you move on.

7 BY MR. FINCH:

8 Q. Dr. Cameron, what does it mean to you  
9 that a material is an important feature of the  
10 invention?

11 A. To me, that's trying to say that this is  
12 something that you're focused on for your  
13 invention that you're trying to communicate.

14 Q. And with that understanding of  
15 "important feature of the invention," is the  
16 material composition of Ho's extended portion an  
17 important feature of the invention?

18 A. So as I explained with how I understand  
19 what that phrase means, Ho is not -- it's not the  
20 focus that it's trying to teach you to use a  
21 particular material composition in a structure of  
22 Ho.

1           Having said that, as I explained before,  
2   a person of ordinary skill in the art is going to  
3   understand, not just of Ho, but of many  
4   references, what things -- how things can be made  
5   or where the state of the technology is or what is  
6   to be expected.

7           And if you stretch the meaning of  
8   "important feature of the invention" to -- you  
9   know, something is going to be an issue if you  
10   start unreasonably changing what the material is  
11   from how a person of ordinary skill would  
12   understand it. I'm not saying that can't be the  
13   case.

14           But how I understand this sentence here  
15   is that if you're focused on communicating what  
16   the material is and that's important to what  
17   you -- to how you're moving things forward and  
18   you're wondering how you can communicate that, you  
19   can use the guidance in here to help you.

20         Q.   So is it your opinion that the inventor  
21   of Ho was not trying to convey the material  
22   composition of the extended portion?

1           A.    I think in Ho, a person of ordinary  
2    skill in the art, for example, would understand  
3    that it's molded. A person of ordinary skill in  
4    the art is not going to feel constrained to some  
5    narrow particular composition based on Ho.

6                   And Ho is not trying to, for example,  
7    say this particular material composition is better  
8    than everything else we normally use such that I  
9    need to think very carefully about how I'm  
10   conveying that. Yeah, I don't think that's the  
11   case in Ho.

12          Q.    So no, the inventor of Ho was not trying  
13   to convey the material composition of the extended  
14   portion?

15                   MS. ACHARYA: Objection; form.

16                   THE WITNESS: That's the same question  
17   you just asked me, and it's the same answer.

18   BY MR. FINCH:

19          Q.    Dr. Cameron, we've both said a lot of  
20   words today. I'm trying to understand that your  
21   answer to that question was, in fact, no, the  
22   composition of the material is not important to

1 the inventor of Ho?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: I've explained this, I  
4 feel like, a dozen times.

5 In Ho, for example, a person of ordinary  
6 skill in the art has an understanding, for  
7 example, that that is molded, since that's what we  
8 were talking about before.

9 It is not the case that Ho is focused on  
10 saying, for example, I have a new inventive  
11 contribution to the art, and that is that this  
12 particular specific composition is so much better  
13 for a reason that you never thought of. I don't  
14 think that's the case in Ho.

15 BY MR. FINCH:

16 Q. Let's turn back to Figure 3 of Ho.

17 A. What letter is Ho?

18 Q. Apologies, M.

19 A. Thank you. I'm at Figure 3.

20 Q. Dr. Cameron, as a person of ordinary  
21 skill in the art, what types of materials would  
22 you consider to be appropriate to create the

1 extended portion of Ho?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: It could be like  
4 polypropylene, it could be ABS, things like that.

5 BY MR. FINCH:

6 Q. What are polypropylene and ABS?

7 A. They're particular kinds of plastic  
8 material.

9 Q. Other than plastic materials, would you  
10 consider any other structures -- let me try that  
11 again.

12 Other than plastic materials, would you  
13 consider any other materials appropriate to create  
14 the extended portion of Ho?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: I would expect it to be a  
17 plastic like that. Is it feasible to make it out  
18 of other things? You could make it out of other  
19 things. That's not what I would understand it to  
20 be.

21 BY MR. FINCH:

22 Q. What other things could you make it out

1 of?

2 A. I haven't sat down and thought about  
3 that.

4 Q. Could you make it out of metal?

5 A. I wouldn't expect it to be made out of  
6 metal, but you could make it out of metal, yes.

7 Q. How would Figure 2 and Figure 3 of Ho  
8 look different if this structure were made out of  
9 metal?

10 MS. ACHARYA: Objection; form.

11 THE WITNESS: If Ho is trying to convey  
12 that you are not kind of just using standard  
13 things for this, then I would expect either a  
14 mention of that, or I suppose maybe you could use  
15 what you're pointing me to, the MPEP. But,  
16 frankly, I find that to be pretty uncommon, and  
17 probably there would just be a mention  
18 specifically that it was.

19 BY MR. FINCH:

20 Q. So if the inventor of Ho wanted to  
21 convey that the extended portion was made of  
22 metal, they could use the conventions in the MPEP?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: I wouldn't necessarily  
3 expect that, based on my experience. I would not  
4 necessarily expect that. What I would expect is  
5 there would be a specific indication that that was  
6 the case in the text.

7 BY MR. FINCH:

8 Q. And so correct me if I'm wrong, but my  
9 understanding is that your testimony is that  
10 Figure 2 and Figure 3 would not look different if  
11 the extended portion were made of metal, but there  
12 would be an indication in the specification that  
13 that was the case?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: That would probably be  
16 my -- that would probably be my expectation.  
17 Whether you could convey that another way, you  
18 know, that's probably what I would do, if this is  
19 me. Whether somebody chooses something different,  
20 I would need to look at what that was. But that  
21 would be -- that would be my expectation, yes.

22

1                   MR. FINCH: Dr. Cameron, let's go ahead  
2     and take another short break. Let's do  
3     ten minutes.

4                   THE VIDEOGRAPHER: Thomas, is it all  
5     right if we do 20? I just have to make a phone  
6     call here.

7                   MR. FINCH: Yeah, that's fine, and --

8                   THE WITNESS: If we want to do that, we  
9     could just -- at least for me, it's lunchtime, and  
10    so we could just -- I don't mind doing, like,  
11    20 minutes and also having lunch or -- it's up to  
12    you, but just a suggestion.

13                  MR. FINCH: Yeah. Would you -- what if  
14    we do half an hour? And that gives you time for  
15    lunch and gives Ranjini enough time for whatever  
16    she needs to do, and then we can come back at,  
17    say, 3:15 Eastern. Is that --

18                  THE WITNESS: That sounds great. That's  
19    perfect.

20                  THE VIDEOGRAPHER: All right. The time  
21    is 12:44 p.m. We're going off the record.

22                               (Recess from the record.)

1 THE VIDEOGRAPHER: The time is

2 1:17 p.m., and we're back on the record.

3 BY MR. FINCH:

4 Q. Dr. Cameron, welcome back.

5 A. Thank you.

6 Q. Let's go ahead and look back at your  
7 supplemental declaration for the '993 patent.

8 This is Tab B.

9 A. Okay.

10 Q. And go ahead and turn to paragraph 35 of  
11 that document, please.

12 THE VIDEOGRAPHER: One second, this just  
13 crashed on me. My Windows update, so give me a  
14 second. It will be up on the screen momentarily.

15 THE WITNESS: I'm there.

16 BY MR. FINCH:

17 Q. And, Dr. Cameron, in paragraph 35  
18 states, I also disagree that water supply line 403  
19 in Figure 2 must terminate at the bowl.

20 Elsewhere, Guoxin teaches that "a portion of the  
21 water from the inlet device is directly supplied  
22 to the toilet bowl." A POSITA would not

1 understand that to mean that the water must go  
2 from the inlet to the toilet bowl without passing  
3 through any connections or parts.

4 Do you see that?

5 A. Yes.

6 Q. So you testify for what a POSITA would  
7 not understand Guoxin to teach. And my question  
8 for you is: The passage of Guoxin cited in the  
9 second sentence here, which I read previously,  
10 what would a POSITA understand that to teach?

11 MS. ACHARYA: Objection; form.

12 THE WITNESS: Sorry, the part that's  
13 quoted here, is that what you mean?

14 BY MR. FINCH:

15 Q. Correct.

16 A. That's just telling you that the  
17 water -- the portion of the water from the inlet  
18 device that it's talking about ends up in the  
19 toilet bowl.

20 Q. And so what meaning does the word  
21 "directly" have in this sentence?

22 A. To me, that's just telling you that

1     you're going from inlet device to the toilet bowl.

2           Q.     And so is it your opinion that  
3     "directly" does not have any meaning in this  
4     sentence?

5           MS. ACHARYA:  Objection; form.

6           THE WITNESS:  Well, as I was explaining  
7     here, if you're trying to say that "directly"  
8     means that you can't have any connection there,  
9     that's clearly not true because this is -- what  
10    this is talking about shows intermediate  
11    connections.

12    BY MR. FINCH:

13           Q.     Okay.  And you include in your  
14    declaration what you think it doesn't mean.  And  
15    what I'm asking you is what the word "directly"  
16    does mean in this sentence?

17           MS. ACHARYA:  Objection; asked and  
18    answered.

19           THE WITNESS:  Yeah, that's what you  
20    asked me before, and it's the same answer.

21    BY MR. FINCH:

22           Q.     So is it your testimony that the word

1 "directly" should be ignored in this sentence?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: The reason that I'm  
4 talking about this at all is because it was  
5 claimed that "directly" meant you couldn't have it  
6 go through any other connections or parts. And  
7 I'm trying to explain here that that is incorrect,  
8 because you can see that this quote that I cited  
9 here has intermediate connections.

10 BY MR. FINCH:

11 Q. I understand that. And my question for  
12 you is: What does Guoxin mean when it states that  
13 a portion of the water from the inlet device is  
14 directly supplied to the toilet bowl, and what is  
15 the purpose of the word "directly" in that  
16 sentence?

17 MS. ACHARYA: Objection --

18 THE WITNESS: I mean, that sentence just  
19 means that the water -- that portion of the water  
20 goes from the inlet device to the toilet bowl.

21 BY MR. FINCH:

22 Q. So would this portion of Guoxin have the

1 same meaning, in your opinion, if the word  
2 "directly" was not there?

3 MS. ACHARYA: Objection; form.

4 THE WITNESS: To me, it's clearer to say  
5 it how it is because it tells you that it's  
6 traveling from one to the other.

7 BY MR. FINCH:

8 Q. Okay. What purpose does the word  
9 "directly" have in that sentence?

10 MS. ACHARYA: Objection; asked and  
11 answered for the fourth time.

12 THE WITNESS: Yeah, I mean, if that's  
13 different than you asked me before, then you'll  
14 need to explain how.

15 BY MR. FINCH:

16 Q. So if Guoxin stated a portion of the  
17 water from the inlet device is supplied to the  
18 toilet bowl, would that change the meaning of  
19 Guoxin, in your opinion?

20 MS. ACHARYA: Objection; form.

21 THE WITNESS: I think it would be less  
22 clear.

1 BY MR. FINCH:

2 Q. And so what clarity does the word  
3 "directly" provide that is not present if the word  
4 "directly" is not included?

5 A. Because it's telling you -- it's making  
6 it clear that you're -- that the water is going  
7 from an inlet device to the toilet bowl.

8 Q. And it sounds like what you just said is  
9 the sentence without the term "directly," and I  
10 want to know what the term "directly" has?

11 A. Maybe to you, but it's more clear with  
12 the word "directly" in there.

13 Q. Can you provide me an example of what a  
14 toilet fill valve would look like if the water was  
15 supplied from the inlet device to the toilet bowl  
16 but was not directly supplied?

17 A. I think that you're kind of twisting  
18 what that's trying to convey. I mean, I think  
19 it's a very common way of explaining that the  
20 water is going from one to the other. I think  
21 it's perfectly common to say, a portion of the  
22 water from the inlet device is directly supplied

1 to the toilet bowl.

2 Q. And it's your testimony that it will be  
3 less clear to say, a portion of the water from the  
4 inlet device is supplied to the toilet bowl?

5 MS. ACHARYA: Objection; form.

6 THE WITNESS: I think it's marginally  
7 less clear, yes.

8 BY MR. FINCH:

9 Q. Okay. But "directly" doesn't mean that  
10 there aren't any intermediate parts?

11 A. I didn't understand that.

12 Q. Your testimony is that a POSITA would  
13 not understand the phrase with the term "directly"  
14 to mean that the water must go from the inlet to  
15 the toilet bowl without passing through any  
16 connections or parts.

17 And so my understanding is that your  
18 opinion is that the term "directly" does not  
19 preclude water from passing through intermediate  
20 connections and parts?

21 A. Correct.

22 Q. Okay. Does the term "directly" in that

1 passage preclude anything?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: I mean, I don't think it

4 would -- I don't think it would -- you would

5 describe it as what I have in quotes if the water

6 is not going from the inlet device to the toilet

7 bowl.

8 BY MR. FINCH:

9 Q. Doesn't all water that enters the inlet  
10 device of the toilet fill valve eventually enter  
11 the toilet bowl?

12 MS. ACHARYA: Objection; form.

13 THE WITNESS: Yes.

14 BY MR. FINCH:

15 Q. Okay. And so regardless of whether this  
16 statement were present in Guoxin or not, a POSITA  
17 would understand that the water from the inlet  
18 device is supplied to the toilet bowl; correct?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: Can you ask that question  
21 again?

22

1 BY MR. FINCH:

2 Q. Regardless of whether or not Guoxin  
3 included the cited statement, a POSITA would  
4 understand that water passes from the inlet device  
5 to the toilet bowl; correct?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: I mean, just because  
8 somebody understands something doesn't mean you  
9 can't also spell it out. I guess I don't  
10 understand that.

11 BY MR. FINCH:

12 Q. Would you say that the water which  
13 enters Guoxin's inlet device and then enters the  
14 toilet tank and then enters the toilet bowl is  
15 directly supplied to the toilet bowl?

16 MS. ACHARYA: Objection; form.

17 THE WITNESS: I would need to look at  
18 Guoxin again, but my recollection is that this is  
19 talking about the portion of the water that goes  
20 through the overflow tube into the bowl.

21 BY MR. FINCH:

22 Q. Sure.

1 MR. FINCH: And can we pull up Tab K,  
2 Exhibit 2007, which is Guoxin.

3 (Exhibit 2007, Previously Marked.)

4 THE WITNESS: Did you say K?

5 BY MR. FINCH:

6 Q. K. It should be -- you may have to  
7 refresh.

8 A. Okay. So I have that open now.

9 Q. So my question was: Would you say that  
10 water which enters through Guoxin's inlet device  
11 and then enters the toilet tank and then enters  
12 the toilet bowl is directly supplied to the toilet  
13 bowl?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: I think when Guoxin says  
16 that, it's talking about the portion that goes  
17 through the overflow tube.

18 BY MR. FINCH:

19 Q. All right. And so my understanding of  
20 your testimony is that using the term "directly"  
21 refers to water passing through the overflow tube  
22 on the way to the toilet bowl and not water

1 passing through the toilet tank itself?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: That portion that I quoted  
4 that has "directly" in it, yes.

5 BY MR. FINCH:

6 Q. Can you point to me in Guoxin where it's  
7 referring to an overflow tube?

8 A. So it's -- well, it's in -- well, the  
9 beginning of that sentence says, Therefore, each  
10 time the toilet is flushed, a portion of the water  
11 from the inlet device is directly supplied to the  
12 toilet bowl to compensate for the lack of water in  
13 the tank, thereby ensuring that the toilet is  
14 flushed clean in a single flush.

15 So to me, that's telling you that's not  
16 the portion of the water that -- or that's not the  
17 water that goes directly from the tank or  
18 directly -- it's not the portion that goes -- if  
19 you look at -- let me see here.

20 It doesn't have an overall figure, but I  
21 think when I read that, that's telling you it's  
22 not the water that's, like, going through when you

1 flush, but it's the water that's getting refilled  
2 that goes through the overflow tube.

3 Q. Okay. And can you point to anything in  
4 Guoxin that indicates that the water is going  
5 through an overflow tube?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: Well, again, I mean,  
8 that's like the standard setup of a toilet, and  
9 that's how I understand that sentence I just read  
10 to you.

11 BY MR. FINCH:

12 Q. Okay. But it doesn't reference an  
13 overflow tube; does it?

14 A. It doesn't specifically say "overflow  
15 tube," but it does say -- it does say -- where is  
16 that phrase? Yeah, so it does say that -- I mean,  
17 I just read it to you.

18 "Therefore, each time the toilet is  
19 flushed, a portion of the water from the inlet  
20 device is directly supplied to the toilet bowl to  
21 compensate for the lack of water in the tank,  
22 thereby ensuring the toilet is flushed clean in a

1 single flush."

2 Q. And that sentence doesn't reference an  
3 overflow tube at all; does it?

4 A. It doesn't specifically say "overflow  
5 tube," but, I mean, a person of ordinary skill in  
6 the art understands the overall structure of a  
7 typical toilet.

8 Q. None of the figures in Guoxin depict an  
9 overflow tube; do they?

10 A. The figures don't show the overflow  
11 tube, that's correct.

12 Q. Go back to Tab M, which is Ho.

13 A. Okay.

14 Q. Does Ho depict an overflow tube?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: Yes.

17 BY MR. FINCH:

18 Q. And where does Ho depict an overflow  
19 tube?

20 A. In Figure 2.

21 Q. In Figure 2.

22 And which component is the overflow tube

1 that you believe in Figure 2?

2 A. It doesn't have a number on it.

3 Q. Ho depicts a tube number 40, as well;

4 correct?

5 A. That's correct, yes.

6 Q. Is that tube connected to an overflow

7 tube?

8 A. An overflow tube does not seem to be

9 depicted in Figure 1, but it is in Figure 2.

10 Q. So I might have misunderstood.

11 Did you testify that the tube labeled 40

12 is connected to an overflow tube?

13 A. No, I said it does not seem to be

14 depicted in Figure 1. The overflow tube does not

15 appear to be depicted in Figure 1, but it is in

16 Figure 2.

17 Q. But is the tube labeled 40 connected to

18 an overflow tube?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: It could be. It doesn't

21 specifically show that because in Figure 2, like,

22 the entirety of the overflow tube is not shown,

1 and the entirety of 40 is not shown either.

2 BY MR. FINCH:

3 Q. Is the entirety of 40 shown in Figure 1?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: No.

6 BY MR. FINCH:

7 Q. It's not?

8 A. Correct.

9 Q. Your testimony is that Figure 1 does not  
10 show where the tube 40 is directed at?

11 MS. ACHARYA: Objection; form.

12 THE WITNESS: That's not what I said.

13 BY MR. FINCH:

14 Q. Does Figure 1 show where Figure -- where  
15 tube 40 terminates?

16 A. Yes.

17 Q. And where does it terminate?

18 A. It seems like it goes -- at least in  
19 Figure 1, it shows that it's going into, like, the  
20 area below 10, where the number 10 is.

21 Q. And that's the rim flushing conduit  
22 disclosed by Ho.

1 A. Correct.

2 MS. ACHARYA: Objection; form.

3 BY MR. FINCH:

4 Q. So based off of Figure 1, tube 40  
5 terminates at rim flushing conduit and not at an  
6 overflow tube; correct?

7 MS. ACHARYA: Objection; form.

8 THE WITNESS: In Figure 1, that's how  
9 it's shown, that's correct.

10 BY MR. FINCH:

11 Q. Let's go back to Tab K, which is Guoxin.

12 A. Okay.

13 Q. And in Figure 2 of Guoxin, there is a  
14 water supply line 403?

15 A. Correct.

16 Q. How do you know that water supply  
17 line 403 isn't connected to a rim conduit, like in  
18 Ho?

19 MS. ACHARYA: Objection; form.

20 THE WITNESS: It's a standard -- it's a  
21 standard way, even if you wanted to assume that  
22 you're putting this into one where you want to

1     rinse the rim, it's still to have to go to an  
2     overflow tube. And in addition to that, there's  
3     not even an indication in here that you need to go  
4     to the rim.

5     BY MR. FINCH:

6           Q.     Okay. So your testimony is that we  
7     don't know that 403 goes to the rim because  
8     there's not an indication in here that it goes to  
9     the rim; correct?

10           MS. ACHARYA: Objection; form.

11           THE WITNESS: I think that's correct,  
12     yes.

13     BY MR. FINCH:

14           Q.     But even though there's no indication  
15     that it goes to an overflow tube, you believe that  
16     it goes to an overflow tube?

17           A.     That's correct.

18           Q.     Okay. Sticking with Figure 2, what is  
19     the purpose of the structure labeled 2?

20           A.     Numeral 2 in Figure 2?

21           Q.     Correct.

22           A.     That's the float.

1 Q. Okay. And what is the purpose of the  
2 float that's labeled 2?

3 A. So that it can rise and fall with the  
4 water level in the tank.

5 Q. And what happens when the float rises  
6 and falls with the water level in the tank?

7 A. It opens the valve.

8 Q. Which valve does it open?

9 A. Like, basically the one that's connected  
10 to the lever arm that comes from the float.

11 Q. And what is the purpose of that valve?

12 A. To allow water to flow from the supply.

13 Q. From the water supply into the fill  
14 valve?

15 A. Correct.

16 Q. And in Figure 2, the water level in the  
17 toilet tank is depicted as full; correct?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: I didn't catch the end of  
20 that sentence -- question.

21 BY MR. FINCH:

22 Q. In Figure 2, the water level in the

1 water tank is depicted as full; correct?

2 MS. ACHARYA: Objection; form.

3 THE WITNESS: I would assume so, but I'm  
4 just checking that it's all the way. Yes.

5 BY MR. FINCH:

6 Q. Okay. And the float that's labeled with  
7 numeral 2 is floating on top of the water in the  
8 tank in Figure 2; correct?

9 A. Yes.

10 Q. Okay. What is the structure that's  
11 labeled with numeral 3 in Figure 2?

12 A. That's a secondary float.

13 Q. And what is the purpose of the secondary  
14 float?

15 A. So that it can change position  
16 vertically in Figure 2.

17 Q. And is it fair to say that the secondary  
18 float is attempting to float on top of the water  
19 level, but it's restrained by switching mechanism  
20 4?

21 MS. ACHARYA: Objection; form.

22 THE WITNESS: Yes, there's buoyancy

1 force, and then there's force from switching  
2 mechanism 4, that's true.

3 BY MR. FINCH:

4 Q. And let's take a look at Figure 3 of  
5 Ho -- sorry, this is Figure 3 of Guoxin.

6 A. I'm there.

7 Q. Okay. And Figure 3 depicts the water  
8 level after flushing; correct?

9 MS. ACHARYA: Objection; form.

10 THE WITNESS: Correct.

11 BY MR. FINCH:

12 Q. And after flushing, the secondary float  
13 numeral 3 is located at the base of the fill  
14 valve; correct?

15 A. That's correct.

16 Q. And that's because the water level is  
17 low enough that it doesn't create any buoyancy for  
18 that numeral 3 structure to float?

19 A. Or that the buoyancy force is less than  
20 the weight.

21 Q. The water level isn't depicted in  
22 Figure 3; is it?

1 A. No, it isn't.

2 Q. Based on the location of the secondary  
3 float, number 3, where would you expect the water  
4 level to be located in Figure 3?

5 A. Near the bottom of the tank.

6 Q. And when you say "near the bottom of the  
7 tank," can you be a little bit more specific?

8 A. It doesn't say the precise distance on  
9 the bottom, but it would be near the bottom.

10 Q. Okay. Will it be higher or lower than  
11 where the numeral 3 is located in Figure 3?

12 MS. ACHARYA: Objection; form.

13 THE WITNESS: It could be either.

14 BY MR. FINCH:

15 Q. Okay. Would you expect the water level  
16 to be higher or lower than the surface indicated  
17 by numeral 300 in Figure 3?

18 A. Lower.

19 Q. So is it fair to say that ball float  
20 numeral 2 is not floating in the water in  
21 Figure 3?

22 MS. ACHARYA: Objection; form.

1           THE WITNESS: Some of the 3 could be  
2   above the water level, if that's what you mean by  
3   "float." It does, however, appear to me, as well,  
4   that 3 is resting on the portion of the supply,  
5   where the supply comes in.

6   BY MR. FINCH:

7           Q. And maybe I misspoke.

8           My question was intended to ask whether  
9   the primary float numeral 2 is floating --

10          A. Oh, sorry, I thought you said 3. Can  
11   you repeat your question again?

12          Q. Is it fair to say that the primary float  
13   numeral 2 is not floating in the water in  
14   Figure 3?

15          A. Yes, I agree -- well, assuming this is  
16   all supposed to be meant to be drawn to scale in  
17   that way, then I would agree with that, yes.

18          Q. And would you assume that a figure of  
19   this nature is meant to depict what happens to the  
20   components at various water levels?

21           MS. ACHARYA: Objection; form.

22           THE WITNESS: I would agree it's meant

1 to depict what's happening if you empty the tank,  
2 yes.

3 BY MR. FINCH:

4 Q. What is causing float number 2 to stay  
5 in the position indicated in Figure 3?

6 A. Likely there's a mechanical piece around  
7 the pin connection that stops it from rotating  
8 past a certain amount.

9 Q. Is that mechanical piece depicted in  
10 Figure 3 at all?

11 A. It doesn't show that specifically, no.

12 Q. Does the specification reference that  
13 there's a mechanical piece that prevents primary  
14 float 2 from descending further at all?

15 A. I don't remember. Do you want me to  
16 look?

17 Q. You're welcome to take a look, if you  
18 think that would be helpful.

19 A. Sure.

20 (Witness peruses the exhibit.)

21 THE WITNESS: It doesn't seem to discuss  
22 that specific detail.

1 BY MR. FINCH:

2 Q. Does it discuss it in any detail?

3 A. In that specific detail, in case you  
4 misheard me, but there's not details of that.

5 Q. Figure 3 depicts a connecting rod  
6 between the valve and float numeral 2; correct?

7 A. Sorry, I was scrolling to Figure 3.  
8 Could you repeat your question?

9 Q. Sure.  
10 Figure 3 depicts a connecting rod  
11 between the fill valve and the float numeral 2; is  
12 that correct?

13 A. Yes.

14 Q. And Figure 3 depicts that connecting rod  
15 is resting on the switching valve numeral 42;  
16 correct?

17 MS. ACHARYA: Objection; form.

18 THE WITNESS: It seems unlikely, but it  
19 doesn't tell you either way, I suppose, in that  
20 figure.

21 BY MR. FINCH:

22 Q. When you say "unlikely," are you saying

1     that that is not actually shown in this figure?

2                   MS. ACHARYA:  Objection; form.

3                   THE WITNESS:  Well, because you're  
4     looking just like straight on.  So it doesn't  
5     necessarily show that, that's correct.

6     BY MR. FINCH:

7             Q.     Okay.  And do you believe it's just a  
8     coincidence that that rod happens to be depicted  
9     contacting switching valve 42 [sic]?

10            MS. ACHARYA:  Objection; form.

11            THE WITNESS:  I suppose it's possible  
12     that that thing is to prevent the float from going  
13     down even further, but I think it's more likely  
14     that, yes, that's a coincidence and that there's  
15     another mechanism that's stopping that and that  
16     that is probably not actually resting there, but I  
17     don't know that for sure.

18     BY MR. FINCH:

19             Q.     And I misspoke earlier when I said 42.  
20     The numeral for switching valve is 4, just so the  
21     record is clear.

22                   Would you agree with me that the rod

1 connecting the fill valve and float 2 in Figure 3  
2 is depicted as contacting switching valve numeral  
3 4?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: Again, I don't know this  
6 for sure because the figure that I'm looking at is  
7 just straight on, but I would assume that it is  
8 not. It is not.

9 BY MR. FINCH:

10 Q. Okay. In Figure 3, though, the rod  
11 we've been referring to and switching valve 4, the  
12 lines depicting those shapes intersect with each  
13 other; correct?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: In -- sorry, can you  
16 repeat that?

17 BY MR. FINCH:

18 Q. In Figure 3, the lines depicting the rod  
19 connecting the toilet fill valve and float  
20 numeral 2 intersect with the lines depicting  
21 switching valve numeral 4; correct?

22 MS. ACHARYA: Objection; form.

1 THE WITNESS: Well, in a 2-D end-on  
2 view, they're in the same space, but that doesn't  
3 mean that in a 3-D that they're touching.

4 BY MR. FINCH:

5 Q. But in the 2-D view that we have, they  
6 are touching; correct?

7 MS. ACHARYA: Objection; form.

8 THE WITNESS: I mean, I don't agree that  
9 that's depicting that it's touching. I do think  
10 that when you look at it head on, structures that  
11 are not touching can have the lines together, like  
12 they are shown here.

13 BY MR. FINCH:

14 Q. Okay. But the lines in Figure 3 are  
15 shown as intersecting; correct?

16 MS. ACHARYA: Objection; form.

17 THE WITNESS: Sorry, I just want to look  
18 at one thing real quick.

19 (Witness peruses the exhibit.)

20 THE WITNESS: I want to modify my  
21 earlier answer about the -- saying that it wasn't  
22 depicted, that there was something to stop the

1 float from going further, because it does appear  
2 that there is that structure depicted there.

3 But going back to your current question,  
4 again, this is an end-on view. It does show the  
5 lines coming together, but that does not indicate  
6 that they are touching.

7 BY MR. FINCH:

8 Q. Okay. And I'm not referring to the  
9 structures themselves. I'm referring to the lines  
10 in Figure 3.

11 Can we agree that the lines intersect  
12 between the rod connected to float 2 and the  
13 switching device number 4?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: I don't want my answer to  
16 be misconstrued. And so, again, although those  
17 two parts may not be touching and they're not  
18 touching in 3-D, they -- the lines, when you look  
19 at the end-on view, like you are in Figure 3, come  
20 together.

21 BY MR. FINCH:

22 Q. Let's go back to Tab B, your declaration

1 in the '993 proceedings.

2 A. B, did you say, boy?

3 Q. B, as in boy, correct.

4 A. Okay. I have that.

5 Q. Let's take a look at paragraph 34.

6 A. Okay.

7 Q. In paragraph 34, you state that you do  
8 not attach any weight to the depiction of water  
9 supply line 403 descending from the point of  
10 attachment in Figure 2. Line 403 is likely shown  
11 as descending simply to not clutter the depiction  
12 of the float; is that correct?

13 A. Correct.

14 Q. How do you know that line 403 was drawn  
15 in this way to avoid cluttering the depiction of  
16 the float?

17 A. I don't know that for 100 percent sure.  
18 However, I do think that's likely -- I do think  
19 that that's likely.

20 Q. Okay. How many percent sure are you?

21 A. I don't think about it in an exact  
22 percent, but it is likely that that's how that's

1 depicted for the clarity of the drawing.

2 Q. Okay. And why do you think that that is  
3 likely?

4 A. Number 1, because it's common to do that  
5 sort of thing. And, number 2, because when you  
6 look at 403, it's pretty evenly spaced in there in  
7 order to not kind of crowd the other things on the  
8 drawing. And that is why I would -- the reason I  
9 would assume it's at that location.

10 Q. Is there anything other than your  
11 personal experience that you can point to which  
12 would indicate that water supply line 403 was  
13 drawn this way to avoid cluttering the depiction  
14 of the float?

15 A. My experience in looking at drawings, my  
16 experience in making drawings, my understanding as  
17 an engineer, and the fact of a placement of that  
18 403 is such that it's not crowding either the  
19 float or the rest of the structure there. All of  
20 those things indicate to me that that's likely why  
21 that sits there.

22 Q. How is a POSITA supposed to look at

1 Guoxin and know which portions of the figure are  
2 just intended to avoid clutter and which portions  
3 have actual meaning?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: I don't think a person of  
6 ordinary skill in the art necessarily expects the  
7 drawing in its entirety to be drawn to scale or  
8 things like that. But I think, as well, that a  
9 person of ordinary skill in the art has some  
10 understanding of what's trying to be conveyed in a  
11 drawing and can use their judgment to understand  
12 things like that.

13 BY MR. FINCH:

14 Q. Are there any other portions of Figure 2  
15 that you believe are just drawn to avoid clutter,  
16 rather than actually containing substantive  
17 depictions?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: What was the end of that  
20 question?

21 BY MR. FINCH:

22 Q. Are there any other portions of Figure 2

1 that you believe are just drawn in a particular  
2 way to avoid clutter and should not be taken as  
3 substantive?

4 MS. ACHARYA: Objection; form.

5 THE WITNESS: I guess I'm not exactly  
6 sure on what you mean by the substantive. But,  
7 for example, I mean you could look at where the  
8 placement of the numbers are and, like, if you  
9 look at, for example, 405, you know, maybe you  
10 might put that closer to the actual part it's  
11 pointing to.

12 But because it's like a little bit  
13 cluttered in that area, they made that line so  
14 that the 405 kind of sits well above so that you  
15 can read it. So there's judgment calls like that  
16 made, I guess, all the time when you make a  
17 drawing.

18 BY MR. FINCH:

19 Q. And so is it your opinion that when the  
20 patentee drew water supply line 403 here, they  
21 didn't intend to convey anything about the purpose  
22 or direction or use of the water supply line?

1 MS. ACHARYA: Objection; form.

2 THE WITNESS: I think that you could see  
3 the important part of that is shown as coming off  
4 of, like, where 4 -- where the number 4 is, and  
5 that's partly why that's shown, like, in a dashed  
6 line, as well.

7 BY MR. FINCH:

8 Q. So you think that the figure is not  
9 intended to convey anything other than that -- the  
10 left end of the 403 is connected to the switching  
11 valve number 4?

12 A. I wouldn't say that. But, again, I  
13 think like a person of ordinary skill, looking at  
14 that figure, is not thinking to themselves, Oh,  
15 this means that 403 needs to have the exact  
16 pathway that's shown in the dotted line there. I  
17 disagree with that.

18 Q. So, in your opinion, what would a POSITA  
19 take from looking at Figure 2's depiction of  
20 line 403?

21 A. I mean, 403 is showing how you get  
22 from -- you know, that you can take water from the

1 output of 4 to the overflow tube.

2 Q. But the overflow tube isn't depicted?

3 A. No, it's not.

4 Q. Okay. And 403 isn't depicted as going  
5 anywhere?

6 MS. ACHARYA: Objection; form.

7 THE WITNESS: Right. Like as in many  
8 drawings, not all the components are always shown.  
9 That doesn't mean that a person of ordinary skill  
10 doesn't know where they go.

11 BY MR. FINCH:

12 Q. So a person of ordinary skill in the  
13 art, looking at Figure 2, would know that line 403  
14 goes somewhere other than where it's depicted?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: If you mean -- if by  
17 "other than you depicted" you think it ends in the  
18 middle of the air, not going anywhere, I don't  
19 think a person of ordinary skill in the art is  
20 going to think that.

21 I similarly don't think that just  
22 because it doesn't show the entire base there,

1 that a person of ordinary skill in the art thinks  
2 there's, like, a break there, just nothing. I  
3 mean, that's absurd.

4 BY MR. FINCH:

5 Q. Figure 2 depicts water supply line 403  
6 descending from switching valve 4; correct?

7 A. It comes out initially parallel and then  
8 has a curvature downward, as you can see.

9 Q. And the opening of an overflow tube  
10 would necessarily need to be located above the  
11 water line; correct?

12 A. That's correct.

13 Q. Your testimony is that a POSITA would  
14 look at water supply line 403 and see that it is  
15 directed down away from the switching valve and  
16 understand that what Guoxin meant to convey was  
17 that it should be directed up; is that correct?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: Of course. A person of  
20 ordinary skill in the art understands that 403  
21 goes to the overflow tube. It does not just end  
22 in the air.

1 BY MR. FINCH:

2 Q. And that's despite the fact that the  
3 only thing that Guoxin teaches us about line 403  
4 is that it goes directly to the bowl; correct?

5 MS. ACHARYA: Objection; form.

6 THE WITNESS: Correct.

7 BY MR. FINCH:

8 Q. Directly to the bowl means directly to  
9 the bowl via the overflow tube, in your opinion;  
10 correct?

11 MS. ACHARYA: Objection; form.

12 THE WITNESS: As I explained before, the  
13 use of the word "directly" in Guoxin, you can see  
14 very clearly, does not mean that there are not any  
15 intermediate connections or parts. In addition to  
16 that, even without that statement there, a person  
17 of ordinary skill in the art understands that that  
18 403 goes to the overflow tube.

19 BY MR. FINCH:

20 Q. Even though there's no overflow tube  
21 depicted?

22 A. Of course. It's very common to draw an

1     engineering -- it's very common to draw a picture  
2     like this that doesn't have an overflow tube in  
3     it, even though everyone understands that there's  
4     an overflow tube there. I mean, this is not like  
5     the only image that does something like that.

6           Q.     And your testimony is the same even  
7     though Guoxin doesn't even reference an overflow  
8     tube at all?

9           MS. ACHARYA:  Objection; form.

10          THE WITNESS:  Of course. A person of  
11     ordinary skill in the art does not need you to  
12     specifically spell out that a toilet system has an  
13     overflow tube. They would understand that to be  
14     there, regardless of whether it's specifically  
15     drawn in the figure or not. Of course.

16     BY MR. FINCH:

17          Q.     How would Figure 2 look different if  
18     line 403 were directed somewhere other than an  
19     overflow tube?

20          MS. ACHARYA:  Objection; form.

21          THE WITNESS:  If you want to show -- if  
22     you want to draw a different system that is

1     somehow not having 403 going to an overflow tube,  
2     then you would put that structure in there.

3     Because if you don't, everyone will assume that  
4     that's going to an overflow tube.

5     BY MR. FINCH:

6             Q.     So your testimony is that Figure 2  
7     discloses line 403 going to an overflow tube  
8     because if it wasn't going there, the reference  
9     would say so?

10            A.     Your question to me is, if you wanted to  
11     depict a system that looked like this, except  
12     you're going to pipe 403 to something besides an  
13     overflow tube, what would you do?

14                     And my answer to you is, if you think  
15     403 goes somewhere besides an overflow tube, which  
16     is not how anyone would understand this, that you  
17     would need to draw that structure and describe it,  
18     that's correct.

19            Q.     Let's go back to Tab M. This is the Ho  
20     reference.

21                     MS. ACHARYA: Counsel, can I just ask --  
22     we've been going over four hours on the record,

1 and I understood this was going to be a four-hour  
2 deposition.

3 Do you know how much longer you have?

4 MR. FINCH: I don't have that much time  
5 left, but I don't want to commit to a specific  
6 number. I expect much less than an hour, but I  
7 don't have a precise number for you.

8 MS. ACHARYA: Okay. You did tell us it  
9 would be a no-more-than-four-hour deposition.

10 MR. FINCH: I --

11 MS. ACHARYA: Four hours and 20 minutes  
12 now. So if you could keep it moving, I would  
13 appreciate it.

14 MR. FINCH: And a significant portion of  
15 that time has been spent with Dr. Cameron  
16 rereading the references. So we're going to keep  
17 going. I will go through this as quickly as  
18 possible. I don't want to be here any longer than  
19 you do, but I am going to continue to ask my  
20 questions.

21 MS. ACHARYA: I will say that a  
22 significant portion of time has been asked -- and

1 reasking questions, as well. But continue.

2 BY MR. FINCH:

3 Q. Dr. Cameron, are there ways to connect  
4 multiple plastic components to one another?

5 MS. ACHARYA: Objection; form.

6 THE WITNESS: Yes.

7 BY MR. FINCH:

8 Q. Can you glue different plastic  
9 components to one another?

10 A. Yes.

11 Q. Is it possible to heat up the plastic a  
12 little bit and get them to adhere to one another  
13 that way?

14 A. In some instances, yes.

15 Q. Okay. Can you connect plastic  
16 components together with fasteners, such as screws  
17 or other devices?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: Depending on the --  
20 depending on the structure, yes.

21 BY MR. FINCH:

22 Q. Okay. Can you take a look at Figure 2

1 of Ho, please?

2 And can you tell me how Figure 2 of Ho  
3 would look different if the extended portion were  
4 glued to the body of the fill valve?

5 MS. ACHARYA: Objection; form.

6 THE WITNESS: It would depend on exactly  
7 how you use the adhesive, but it potentially could  
8 show a gap with the adhesive there.

9 BY MR. FINCH:

10 Q. Is it typical that when components are  
11 glued together that a figure shows a gap between  
12 those components?

13 MS. ACHARYA: Objection; form.

14 THE WITNESS: It depends on what you're  
15 trying to convey.

16 BY MR. FINCH:

17 Q. Okay. In Figure 2 of Ho, would you  
18 expect there to be a gap between the body of the  
19 fill valve and the extended portion if those  
20 components were glued together?

21 MS. ACHARYA: Objection; form.

22 THE WITNESS: I would not expect that

1 those to be able to be glued together. If you are  
2 just specifying that they are, yeah, it would  
3 depend on -- it would depend on your adhesive and  
4 how you have that set up. But, again, there could  
5 be, yeah, separate lines and then an area showing  
6 the adhesive.

7 BY MR. FINCH:

8 Q. Do figures such as Figure 2 always  
9 depict adhesive when adhesive is used?

10 MS. ACHARYA: Objection.

11 THE WITNESS: It depends on what you're  
12 trying to convey.

13 BY MR. FINCH:

14 Q. If you're trying to convey that two  
15 structures are connected together and not convey  
16 the mechanism by which they are connected, would  
17 you depict an extra line?

18 MS. ACHARYA: Objection; form.

19 THE WITNESS: If you're specifically  
20 trying to hide that, then I guess there would be  
21 no line. I don't know how to answer that.

22

1 BY MR. FINCH:

2 Q. We talked about earlier that you could  
3 construct Ho's Figure 2 using a metal fill valve  
4 body and a metal extended portion; correct?

5 MS. ACHARYA: Objection; form.

6 THE WITNESS: I don't think that that's  
7 how a person of ordinary skill in the art would  
8 understand this, but I think it would be feasible  
9 to do that, yes.

10 BY MR. FINCH:

11 Q. And if the extended portion in the body  
12 of the fill valve were welded together, would you  
13 expect to see any differences in Figure 2?

14 MS. ACHARYA: Objection; form.

15 THE WITNESS: Again, if you were trying  
16 to convey that, then, yeah, you might do some  
17 shading to indicate that.

18 BY MR. FINCH:

19 Q. Okay. What if you weren't trying to  
20 convey that, what if it wasn't relevant and  
21 Figure 2 just depicted a metal fill valve body in  
22 a metal extended portion, would you expect the

1 figure to look any different if those portions  
2 were welded together?

3 MS. ACHARYA: Objection; form.

4 THE WITNESS: I haven't thought through  
5 that in a lot of detail, but what I will say is  
6 that a person of ordinary skill in the art would  
7 expect those to be plastic. And if you were  
8 trying to convey that it's not plastic and it's  
9 metal, you would -- I don't know what it would be,  
10 but you would probably do something to indicate  
11 that.

12 BY MR. FINCH:

13 Q. Would you indicate that in the figure or  
14 the specification?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: I -- personally, I would  
17 probably do it in the specification.

18 BY MR. FINCH:

19 Q. And the figure would remain unchanged?

20 A. That may not be how everyone does it,  
21 but I think if you're asking me personally, yeah,  
22 I would probably -- probably leave the figure

1 unchanged and make a note in the specification,  
2 yes.

3 Q. Dr. Cameron, give me 30 seconds to flip  
4 through my outline, but I believe I am finished.

5 One further question, Dr. Cameron, have  
6 you ever seen any actual fill valves manufactured  
7 according to the designs provided in Ho or Brown  
8 or Guoxin?

9 MS. ACHARYA: Objection; form.

10 THE WITNESS: I don't recall seeing  
11 commercial embodiments of those offhand, no.

12 BY MR. FINCH:

13 Q. Do you know if they were ever  
14 manufactured?

15 MS. ACHARYA: Objection; form.

16 THE WITNESS: I'm not sure.

17 MR. FINCH: No further questions.

18 MS. ACHARYA: No questions for  
19 Fluidmaster.

20 Thank you, Dr. Cameron.

21 THE WITNESS: Thank you.

22 THE VIDEOGRAPHER: All right.

1 MR. FINCH: Have a good afternoon.

2 THE VIDEOGRAPHER: Stand by while we go  
3 off the record.

4 The time is 2:20 p.m., on April 23rd,  
5 2025. We're going off the record, completing  
6 today's video-recorded session.

7 (Off the record at 2:20 p.m. MT)

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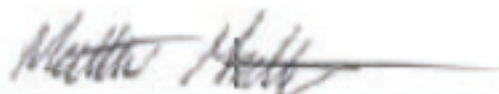
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18 IN WITNESS WHEREOF, I have hereunto set  
19 my hand this 27th day of April, 2025.

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21

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MATTHEW GOLDSTEIN, RMR, CRK

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PILLSBURY WINTHROP SHAW PITTMAN LLP  
2       725 South Figueroa Street, 36th Floor  
Los Angeles, California 90017

3  
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4       Date of deposition: April 23, 2025  
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10 Deposition Date: April 23, 2025

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