EXHIBIT 4

Case 1:20-cv-00393-LMB-TCB Document 1387-4 Filed 07/13/22 Page 2 of 11 PageID# 3459133 151 APPEARANCES: (Cont.)

UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF VIRGINIA

PHILIP MORRIS PRODCUTS S.A.,

Counterclaim Plaintiff,

v. r.j. reynolds vapor company,

Counterclaim Defendant.

VOLUME 1 - AFTERNOON SESSION TRANSCRIPT OF JURY TRIAL PROCEEDINGS BEFORE THE HONORABLE LEONIE M. BRINKEMA, UNITED STATES DISTRICT COURT JUDGE

APPEARANCES:

For the Plaintiffs:

Maximilian Antony Grant, Esq. Latham & Watkins LLP (DC) 555 11th Street, NW Suite 1000 Washington, DC 20004-1304 202-637-2200 Email: Max.grant@lw.com

Civil Action No. 1:20-cv-00393-LMB/TCB

June 8, 2022 1:55 p.m.

Clement Joseph Naples, Esq. Latham & Watkins, LLP 885 Third Avenue 25th Floor New York, NY 10022 212-906-1200 Email: Dement.naples@lw.com

Gregory K. Sobolski, Esq. Latham & Watkins, LLP 505 Montgomery Street Suite 2000 San Francisco, CA 94111-6538 202-637-2267 Email: Max.grant@lw.com

Scott L. Wallace, RDR, CRR Official Court Reporter

APPEARANCES: (Cont.)

For the Plaintiffs:

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RM

Thomas W. Yeh, Esq. Latham & Watkins LLP (CA) 355 South Grand Avenue Suite 100 Los Angeles, CA 90071-1560 213-891-8050 Email: Thomas.yeh@lw.com 152

Matthew John Moore, Esq. Latham & Watkins LLP (DC) 555 11th Street, NW Suite 1000 Washington, DC 20004-1304 202-637-2200 Email: Matthew.moore@lw.com

Dale Chang, Esq. Latham & Watkins LLP (CA) 355 South Grand Avenue Suite 100 Los Angeles, CA 90071-1560 213-891-8050 Email: Dale.chang@lw.com

Lawrence Jay Gotts, Esq. Latham & Watkins LLP (DC) 555 11th St NW Suite 1000 Washington, DC 20004-1304 202-637-2200 Email: Lawrence.gotts@lw.com

For the Defendants: Charles Bennett Molster, III, Esq. The Law Offices of Charles B. Molster III, PLLC 2141 Wisconsin Avenue NW, Suite M Washington, DC 20007

703-346-1505 Email: Cmolster@molsterlaw.com

Stephanie Ethel Parker, Esq. Jones Day (GA) 1420 Peachtree Street, NE Suite 800 Atlanta, GA 30309 404-521-3939 For the Defendants: Micha Jones

Michael Shamus Quinlan, Esq. Jones Day (OH-NA) 901 Lakeside Avenue Cleveland, OH 44114-1190 216-586-3939 Fax: 216-579-0212 Email: Msquinlan@jonesday.com

Jason Todd Burnette, Esq.

Jones Day (GA) 1420 Peachtree Street, NE Suite 800 Atlanta, GA 30309 404-521-3939 Email: Jburnette@jonesday.com

David Michael Maiorana, Esq.

Jones Day (OH) 901 Lakeside Ave Cleveland, OH 44114 216-586-3939 Email: Dmaiorana@jonesday.com

William Edward Devitt, Esq.

Jones Day (IL) 77 West Wacker Suite 3500 Chicago, IL 60601 312-269-4240 Email: Wdevitt@jonesday.com

Court Reporter:

Scott L. Wallace, RDR, RMR, CRR Official Court Reporter United States District Court 401 Courthouse Square Alexandria, VA 2231-5798 202-277-3739 scottwallace.edva@gmail.com

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Scott L. Wallace, RDR, CRR Official Court Reporter

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EXAMINATIONS

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EXHIBITS

Plaintiff's Exhibit PX 749 admitted

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4	179	1	181
02:44PM	Q. Okay. Let's look at Slide Number 3, Demonstrative 3.	02:46PM 1	including their engineering programs or their engineering files,
02:44PM 2		02:46PM 2	and in addition to that, I tested their samples. I tested the
02:44PM 3	the '911 Patent?	02:46PM 3	samples of the Reynolds products that I analyzed.
02:44PM 4	A. In the context of the '911 Patent, a person of ordinary	02:47PM 4	Q. Okay. Let's talk about that for a moment. Now,
02:44PM 5	•	02:47PM 5	Dr. Abraham, you have certain physical exhibits up there with
-	· · · · · · · · · · · · · · · · · · ·	-	you, some samples of products. I believe they're PPX 348 and 9;
02:44PM 7 02:44PM 8	at least two years of experience designing devices that involve	02:47PM	is that right? A. I have these physical samples here (indicating).
	fluid flow, fluid vaporization, and something called phase		Q. Explain to the jury what you're holding in your hands?
02:44PM 9	change. Q. And are you, sir, at least a person of ordinary skill in	02:47PM 9	A. So I'm holding a Vuse and a Solo G2.
02:44PM 10	the art?	02:47PM 10	Q. And those are the Reynolds products that you analyzed for
02:44PM 11	A. Yes, I am.	02:47PM 12	infringement; is that right?
02:44PM 12	 Q. Now, do you understand that Reynolds has a different view 	02:47PM 12	A. That's correct.
02:44PM 13	of what a person of ordinary skill in the art would be for the	02:47PM 13	MR. SOBOLSKI: If it's okay with the Court, we would like
02:44PM 15		02:47PM 14	to allow
02:44PM 16		02:47PM 10	THE COURT: I'll have my court security officer take each
02:44PM 10	 Q. Have you considered Reynolds's view of a person of 	02:47PM 10	device and let the jurors handle them briefly.
02:45PM 18	ordinary skill in the art?	02:47PM 18	BY MR. SOBOLSKI:
02:45PM 19	A. Yes, I have.	02:47PM 10	Q. While they look at that, Dr. Abraham, for reference,
02:45PM 20	Q. And how does that impact your opinions about	02:47PM 20	which is the Alto and which is the Solo?
02:45PM 21	infringement?	02:47PM 21	A. The Solo is the one with the circular cross-section
02:45PM 22	-	02:47PM 22	it's the thinner one and the Alto is the more oblong one, and
02:45PM 23	Q. Sir, let's turn to	02:48PM 23	I believe it's got a greenish tint color to it.
02:45PM 24	THE COURT: I'm sorry. I think the jury might want to	02:49PM 24	THE WITNESS: Thank you.
02:45PM 25	know, what is your understanding of the defendant's definition of	02:49PM 25	BY MR. SOBOLSKI:
	Scott L. Wallace, RDR, CRR, Official Court Reporter		Scott L. Wallace, RDR, CRR, Official Court Reporter
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02:45PM 1	"one of ordinary skill in the art"?	02:49PM 1	Q. Dr. Abraham, you testified here in connection with your
02:45PM 2			
-	THE WITNESS: If I recall correctly, their definition had	02:49PM 2	Slide Number 4 that you performed testing on physical samples of
02:45PM 3	THE WITNESS: If I recall correctly, their definition had a different length of industrial experience. If I recall	02:49РМ 2 02:49РМ 3	
02:45PM 3	a different length of industrial experience. If I recall	2	Slide Number 4 that you performed testing on physical samples of
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02:45PM 4 02:45PM 5 02:45PM 6 02:45PM 7 02:45PM 9 02:45PM 10 02:45PM 11 02:46PM 12 02:46PM 13 02:46PM 14 02:46PM 15 02:46PM 16 02:46PM 18 02:46PM 18 02:46PM 19 02:46PM 20 02:46PM 21	 a different length of industrial experience. If I recall correctly, that was the difference, but it was the same baccalaureate degree. THE COURT: The same BS in mechanical engineering, physics, or material science. THE WITNESS: They may not have had there might have been a slight difference in the degree topics. For example, they may not have listed physics, as an example. THE COURT: But you think that the difference is primarily the amount of years of experience in the field? THE COURT: All right. BY MR. SOBOLSKI: Q. Let's turn to Demonstrative Number 4, please, for a moment. Dr. Abraham, how did you go about forming your opinions on whether the Reynolds products that we're talking about infringe the '911 Patent? A. Well, as you can see in the screen, there were three important steps that I took. First of all, I analyzed the 	02:49PM 3 02:49PM 4 02:49PM 5 02:49PM 6 02:49PM 7 02:49PM 8 02:49PM 9 02:49PM 10 02:49PM 12 02:49PM 12 02:49PM 13 02:49PM 14 02:49PM 15 02:49PM 16 02:49PM 18 02:49PM 18 02:49PM 19 02:50PM 21	 Slide Number 4 that you performed testing on physical samples of the Reynolds devices; is that right? A. That is correct. MR. SOBOLSKI: Let's turn to the next slide, Number 5, please. BY MR. SOBOLSKI: Q. And would you tell the jury, Dr. Abraham, what tests you performed and why? A. Sure. I performed two tests. One of them I'm calling a vaporization activation test, and what that means is I turned the device on and I used it because I wanted to confirm my understanding of how it functioned. In addition, I performed what I'll call a liquid injection test where I purposely injected e-liquid into the device to determine what would happen to that e-liquid, and that test is listed on the screen, and the reason why I performed those tests is I wanted to be sure of my opinions. I formed some opinions by reading the patent in the file history and by
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	ase 1:20-cv-00393-LMB-TCB Document 1387	-4 Filed	3 07/13/22 Page 4 of 11 PageID# 34593
	191		193
03:01PM 1	Q. Is there any other additional information in the '911	03:04PM 1	that is the important distance with respect to holding liquid.
03:01PM 2	Patent record that confirms that Figures 4 and 6 each have blind	03:04РМ 2	MR. SOBOLSKI: Let's turn to Demonstrative 18, please.
03:01PM 3	holes?	03:04PM 3	BY MR. SOBOLSKI:
03:01PM 4	A. Yes, there is.	03:04РМ 4	Q. Does the '911 Patent teach anything about why these
03:02РМ 5	MR. SOBOLSKI: Let's turn to the next demonstrative,	03:04PM 5	particular dimensions, the sizes of the cavities that are blind
03:02РМ 6	please, Number 16.	03:04РМ 6	hole, have an advantage?
03:02PM 7	BY MR. SOBOLSKI:	03:05РМ 7	A. Yeah, it mentions it. In fact, we see what the patent
03:02РМ 8	Q. And what have you shown here, Dr. Abraham?	03:05PM 8	says right on your screen, but these sizes are optimized to be
03:02PM 9	A. Well, what I'm showing on the bottom the two images	03:05РМ 9	large enough to hold a sufficient amount of liquid but small
03:02РМ 10	are Figures 4 and Figure 6 of the patent, and on the bottom is	03:05PM 10	enough to trap the liquid in the cavity by what's called
03:02PM 11	part of an interview summary with the patent examiner. It's PX	03:05PM 11	capillary action.
03:02РМ 12	8A at 16296, and this is an interview summary, so this is what	03:05РМ 12	THE COURT: Why don't you explain for the jury "capillary
03:02РМ 13	the patent examiner said after having an interview with the	03:05РМ 13	action."
03:02РМ 14	applicants.	03:05РМ 14	THE WITNESS: Sure. So capillary action is a special
03:02РМ 15	And I've got to tell you I have 16 patents; I've gone	03:05PM 15	force that exists on fluids, and it allows it allows fluids to
03:02РМ 16	through these interviews before they're very thorough and	03:05PM 16	be held and moved in small spaces.
03:02РМ 17	the patent examiner wrote a summary, and here's what the patent	03:05PM 17	Let me give you an example. How does water get to the
03:02PM 18	examiner said:	03:05PM 18	leaves on a tree? Imagine a tree 200 feet tall, how does water
03:02РМ 19	"The two blind holes of Figures 3 and 4 and/or the blind	03:05РМ 19	get up there? There's no pump. The tree actually has these
03:02РМ 20	hole being toroid of Figures 5 and 6," so the patent examiner	03:05PM 20	little tubes that are in them, and they run all the way up, and
03:02РМ 21	agrees that both of these figures show a blind hole, and I want	03:05PM 21	those tubes draw up liquid all the way up to the top. There's no
03:02РМ 22	to take a moment to explain what a toroid is. I mean, that's	03:05PM 22	pump, there's no, you know, squirrel running a turbine at the
03:02РМ 23	not a word we commonly hear. That just means doughnut. It's a	03:05PM 23	bottom. It's drawn up to the top by capillary action. So
03:03РМ 24	doughnut-shaped hole, but the technical term for it is a toroid.	03:06РМ 24	capillary action is a force that is exerted on fluids in small
03:03РМ 25	So one of the reasons I know that these two figures have blind	03:06РМ 25	spaces.
	Scott L. Wallace, RDR, CRR, Official Court Reporter		Scott L. Wallace, RDR, CRR, Official Court Reporter
	Scott L. Wallace, RDR, CRR, Official Court Reporter 192		Scott L. Wallace, RDR, CRR, Official Court Reporter 194
03:03PM 1	·	03:06Рм 1	
03:03РМ 1 03:03РМ 2	192	03:06РМ 1 03:06РМ 2	194
	192 holes is because the personality examiner said so, and I agree		194 THE COURT: And the trick is small spaces, though, right?
03:03PM 2	192 holes is because the personality examiner said so, and I agree with the patent examiner.	03:06РМ 2	194 THE COURT: And the trick is small spaces, though, right? If there were too wide a space
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03:12PM 1	to that second part of the claim.	03:15PM	1 documentation I wanted to do my own investigation and so I
03:12PM 2	BY MR. SOBOLSKI:	03:15PM	2 went to the CAD files, and this is an image of the computer CAD
03:12PM 3	Q. Explain to the jury how you reach your conclusion about	03:15PM	3 file. Again, it's been cut open so it's a section view. It's
03:12PM 4	the aerosol-forming chamber?	03:15PM	4 Exhibit Number PX 262A, and in their CAD file I found these
03:12PM 5	A. Sure. What you see in the slide is a snippet from that	03:15PM	5 leakage prevention means that I'm highlighting in yellow.
03:12PM 6	PMTA that I just showed you, and, in fact, it's PX 23 at page	03:15PM	6 Q. What else did you do, if anything?
03:13PM 7	40. On this slide you see two colored arrows, and those are	03:16PM	7 A. Well, I wanted to double- or triple-check, I guess, to
03:13PM 8	colored arrows that Reynolds drew on the diagram, so I didn't	03:16PM	8 double-check. I did my own experimentation, and in my first
03:13PM 9	put those colored arrows in, but what I want to draw your	03:16PM	9 experimentation I actually activated the device I turned it
03:13PM 10	attention to is the aerosol-forming chamber which I've	03:16PM 1	0 on and I used it and I wanted to know, in use, would this
03:13PM 11	highlighted in yellow, so I know from Reynolds's own	03:16PM 1 '	1 device meet this claim language.
03:13PM 12	documentation that the Solo G2 has an aerosol-forming chamber.	03:16PM 1	2 Q . And what did you find based on that experiment?
03:13PM 13	Q. Let's move on to Slide 27, please, Dr. Abraham. So in	03:16РМ 1	3 A. Well, what I found is shown on the screen. It's a little
03:13PM 14	summary, what did you find about the Solo G2 for the second	03:16PM 1 4	4 complex so I'm going to take just a moment to explain. I used
03:13PM 15	aspect of Claim 1?	03:16PM 1	5 what's called stereomicroscopy, which is just a very
03:13РМ 16	A. I found that it met the second aspect of Claim 1.	03:16PM 1	6 high-powered microscope that can get really close pictures. The
03:13PM 17	Q. Let's turn then to the third part of Claim 1,	03:16PM 1	7 microscope I used is shown on the right.
03:13PM 18	Dr. Abraham. What did you conclude?	03:16PM 1	8 But after I activated the device and used it, I cut it
03:13РМ 19	A. Well, my conclusion, through my investigation, was that	03:16PM 1	9 open, and I found droplets of condensate in the area that
03:13PM 20	the Solo G2 has a leakage prevention means configured to prevent	03:16PM 2	0 Reynolds had indicated would catch condensate in their own
03:13PM 21	or reduce leakage of liquid aerosol condensate from the	03:16PM 2 '	1 documentation, and I'm calling that out with two red arrows
03:13PM 22	aerosol-generating system, and the structures that provide that	03:16PM 2	2 saying "liquid aerosol condensate," so my own experiments
03:14PM 23	means is described in the claim.	03:16PM 2	3 confirm what Reynolds said about their product and confirmed the
03:14PM 24	Q. So, we've gotten to a part of the '911 Patent that talks	03:16PM 24	4 structures in the CAD file.
03:14PM 25	here about that leakage prevention, right?	03:16PM 2	5 THE COURT REPORTER: Counsel can you slow down,
	Scott L. Wallace, RDR, CRR, Official Court Reporter		Scott L. Wallace, RDR, CRR, Official Court Reporter
	Scott L. Wallace, RDR, CRR, Official Court Reporter 200		Scott L. Wallace, RDR, CRR, Official Court Reporter 202
03:14PM 1	·	03:16PM	•
03:14PM 1 03:14PM 2	200		202
	200 A. That's correct.	03:17PM	202 1 please?
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