

META PLATFORMS, INC., ET AL. V. EIGHT KHz, LLC
IPR2023-01021, IPR2023-01022, IPR2023-01023

ERRATA SHEET

DEPONENT: Gregory Welch, Ph.D. DEP. DATE: May 3, 2024

PAGE	LINE	ORIGINAL	CORRECTION	REASON
8	17	pier to pier	peer to peer	Typographical error / clarification
9	8	I'm'	I'm	Typographical error / clarification
15	1	or	than for	Typographical error / clarification
15	7	something like it that.	something like that.	Typographical error / clarification
21	20	in	and	Typographical error / clarification
36	8	mean about to	mean by to	Typographical error / clarification
37	5	Not exactly that is	Not exactly. That is	Typographical error / clarification
40	5	in the specification and from my	in the specification. And from my	Typographical error / clarification
40	20	certainly	certain	Typographical error / clarification
42	2	do that for	do that, for	Typographical error / clarification
44	7	question I think if I understand	question, I think, if I understand,	Typographical error / clarification
47	8-9	explore things, the opinions	explore things relating to the opinions	Typographical error / clarification
47	10-11	What you're asking me as a person who is an expert in this field I know that what you're asking me	What you're asking me, as a person who is an expert in this field, I know that what you're asking me	Typographical error / clarification
47	15	In this field. I need	In this field because I need	Typographical error / clarification
47	22	claim including the words	claim, including the words	Typographical error / clarification
48	1	in the claim enough to	in the claim, enough to	Typographical error / clarification
49	4	this proceedings	these proceedings	Typographical error / clarification
51	15	summary binaural	summary it says binaural	Typographical error / clarification
52	6	words are used and I'm	words are used, and I'm	Typographical error / clarification

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PAGE	LINE	ORIGINAL	CORRECTION	REASON
61	3	make sure and	make sure, and	Typographical error / clarification
61	4	that would understand	would understand	Typographical error / clarification
61	5	that that	that	Typographical error / clarification
62	6	in my CV but	in my CV, but	Typographical error / clarification
62	11	is all about I, mean, a central aspect	is all about, I mean, a central aspect	Typographical error / clarification
63	9	and augmented reality and sound	and augmented reality. And sound	Typographical error / clarification
63	13	material taught and then	material taught. And then	Typographical error / clarification
63	16	semester project and we also	semester project, and we also	Typographical error / clarification
63	19-22	to those students in that particular course which I thought several times and got a teaching award for, the students I both lectured on and taught them about the concepts.	to those students. In that particular course, which I taught several times and got a teaching award for, I both lectured on and taught students about those concepts.	Typographical error / clarification
64	4-5	showed at a animation festival together so they were using	showed at an animation festival together, so they were using	Typographical error / clarification
66	5-7	this is a paper that is entirely throughout it the audio signal processing is inherent kind of through the whole thing.	this is a paper that has entirely, throughout it, the audio signal processing; it's inherent kind of through the whole thing.	Typographical error / clarification
66	15-18	And then as I look through somewhere, I thought I had a picture here, I don't have a picture, close-up picture of the prototypes but if I look at Figure 2	And then as I look through, somewhere I thought I had a picture here, I don't have a picture, close-up picture of the prototypes. But if I look at Figure 2	Typographical error / clarification
66	20	simulated acoustic transceiver that's got	simulated acoustic transceiver. That's got	Typographical error / clarification
67	9	spacial	spatial	Typographical error / clarification
67	20	spacial	spatial	Typographical error / clarification

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68	13	the I think foremost	the, I think, foremost	Typographical error / clarification
68	18	around the world so I	around the world. So I	Typographical error / clarification
73	4	with a much less	with much less	Typographical error / clarification
76	5	board	Board,	Typographical error / clarification
80	5	radiofrequency	radio frequency	Typographical error / clarification
80	6	place	space	Typographical error / clarification
86	18	spacial	spatial	Typographical error / clarification
87	4	spacialized	spatialized	Typographical error / clarification
88	14	spacial	spatial	Typographical error / clarification
88	16	spacial	spatial	Typographical error / clarification
88	21	spacially	spatially	Typographical error / clarification
90	10	their	they are	Typographical error / clarification
93	18	spacial	spatial	Typographical error / clarification
94	11-14	you seem to be using these terms in mind, you seem to have some very specific narrow thing, but terms can be used widely to mean a variety of different things.	you seem to be using these terms with something in mind. You seem to have some very specific narrow thing in mind. But terms can be used widely to mean a variety of different things.	Typographical error / clarification
94	18-19	would be able to most likely otherwise I think the paper would have been rejected to make sense	would be able to most likely—otherwise I think the paper would have been rejected—to make sense	Typographical error / clarification
95	22	were recording some recording	were recording, some recording	Typographical error / clarification
96	10	it's a odd	it's an odd	Typographical error / clarification

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99	7	as a expert	as an expert	Typographical error / clarification
99	12-13	spacialization of those sounds will most likely be of evident	spatialization of those sounds that will most likely be evident	Typographical error / clarification
99	16	spacial	spatial	Typographical error / clarification
99	17-18	or, you know, is better and better	or, you know, better and better	Typographical error / clarification
99	21	played,	played --	Typographical error / clarification
100	3-6	each person's -- individual person's ear because in the inner ear which probably is not where the microphone goes, it can't go too deep in your ear, the sound for me	each person's -- individual person's -- ear because in the inner ear, which probably is not where the microphone goes, it can't go too deep in your ear. The sound for me	Typographical error / clarification
100	11	spacial	spatial	Typographical error / clarification
100	14-15	otherwise, is not as accurate obviously as site.	Otherwise -- is not as accurate, obviously, as sight.	Typographical error / clarification
100	16	So to some degree yes, to what degree	So to some degree, yes. To what degree	Typographical error / clarification
102	2	made	make	Typographical error / clarification
104	12	not precisely, it surely	not precisely. It surely	Typographical error / clarification
105	17	an a crude	a crude	Typographical error / clarification
105	19	spacially	spatially	Typographical error / clarification
109	3	spacial	spatial	Typographical error / clarification
109	16	depend on headphones	depend on the headphones	Typographical error / clarification
111	2-3	Anybody who would do that would not be credible.	Anybody who would do that, without context, would not be credible.	Typographical error / clarification
113	22	spacial	spatial	Typographical error / clarification
114	8	let's the as say	let's say	Typographical error / clarification

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118	19	part one part	one part	Typographical error / clarification
119	17-18	I have dictionary definition	I have a dictionary definition	Typographical error / clarification
120	17	Intraaural	Interaural	Typographical error / clarification
120	19	intraaural	interaural	Typographical error / clarification
121	14	that transfer function taking	of that transfer function. Taking	Typographical error / clarification
121	17	So HRTF essentially functions	So HRTF transfer functions	Typographical error / clarification
121	20	sound waves arriving	sound waves, arriving	Typographical error / clarification
123	5	frequently	frequency	Typographical error / clarification
125	11	comprises a much wider spectral	comprises much wider spectral	Typographical error / clarification
127	3	Make sure	To make sure	Typographical error / clarification
127	15	filtering would be to	filtering and would be to	Typographical error / clarification
128	5	you said it to me is a filter	you said to me it's a filter	Typographical error / clarification
128	7	analogue	analog	Typographical error / clarification
130	6	to that the same signal	to that same signal	Typographical error / clarification
130	10	stair so	stereo	Typographical error / clarification
131	16	intraaural	interaural	Typographical error / clarification
131	17	intraaural	interaural	Typographical error / clarification
131	18	spacial	spatial	Typographical error / clarification
133	20	spacial	spatial	Typographical error / clarification
133	21	spacial	spatial	Typographical error / clarification
133	22	spacially	spatially	Typographical error / clarification
135	2	spacially	spatially	Typographical error / clarification

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135	10	different data to say	different data. To say	Typographical error / clarification
135	19-20	saying as I sit here and loak at it applying	saying, as I sit here and look at it, applying	Typographical error / clarification
136	3-4	are as a result of applying that function are different	are, as a result of applying that function, different	Typographical error / clarification
136	20	in general I think	in general. I think	Typographical error / clarification
136	19	spacial	spatial	Typographical error / clarification
138	12	spacial	spatial	Typographical error / clarification
139	13	spacialized	spatialized	Typographical error / clarification
139	15	spacialized	spatialized	Typographical error / clarification
141	12-13	or arrives it in one place and arrive	or it arrives in one place and arrives	Typographical error / clarification
142	3	is is delay	is delay	Typographical error / clarification
143	12-14	said it generally to a person in my field would mean a intentional	said generally to a person in my field would mean an intentional	Typographical error / clarification
146	22	spacial	spatial	Typographical error / clarification
147	8	Their	The	Typographical error / clarification
149	16	frequently	frequency	Typographical error / clarification
152	14-15	the wavefronts in my ear is complex signal	the waveform in my ear is a complex signal	Typographical error / clarification
157	19	roughly these region	roughly the region	Typographical error / clarification
158	3	capture possibility	capture the possibility	Typographical error / clarification
158	11	motion	notion	Typographical error / clarification
162	1	the value would call IID	the value you would call IID	Typographical error / clarification
162	7-8	is one that ITD or one IID	is one ITD or one IID	Typographical error / clarification
162	20	each of the sound anyplace	each of the sounds anyplace	Typographical error / clarification
163	18-19	as I said a moment ago unobservabiltiy of a	as I said a moment ago -- unobservability of a signal	Typographical error / clarification

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		signal source in this location in this very simplified world so nothing	source in this location in this very simplified world. So nothing	
164	4	certain described round that plane	circumscribed around that plane	Typographical error / clarification
166	6	ply	supply	Typographical error / clarification
168	11	so and you	so, and you	Typographical error / clarification
171	9	V it in the	V in the	Typographical error / clarification
171	13	to a perceptible difference	to an imperceptible difference	Typographical error / clarification
172	7	two source.	two sources.	Typographical error / clarification
172	7	grade	great	Typographical error / clarification
174	8	a difference place	a different place	Typographical error / clarification
174	8	and worse I saw	and worse, I saw	Typographical error / clarification
177	11	hair	her	Typographical error / clarification
178	9	that Alice because	that Alice, because	Typographical error / clarification
178	10	particular place that she	particular place, that she	Typographical error / clarification
178	12	true given	true, given	Typographical error / clarification
178	20	the may be no	there may be no	Typographical error / clarification
181	20	to his face.	to his face.”	Typographical error / clarification
187	10	I asked if what you meant they had	I asked if what you meant is they had	Typographical error / clarification
188	7	So it it’s as I said before	So it’s as I said before	Typographical error / clarification
191	11	not that as an expert is incapable of that.	Not that as an expert I’m incapable of that.	Typographical error / clarification
194	13	I think if it as two	I think of it as two	Typographical error / clarification
201	8	of the of the	of the	Typographical error / clarification

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202	13	remember entire	remember the entire	Typographical error / clarification
203	13	HTC5s, HP headset	HTC Vive, HP Omnicept	Typographical error / clarification
203	14	all custom	and custom	Typographical error / clarification
203	15	Vision products	Vision Products	Typographical error / clarification
205	11	holder while when you	shoulder while you	Typographical error / clarification
205	17	physical virtual	physical-virtual	Typographical error / clarification
206	6	and then and somebody	and then somebody	Typographical error / clarification
208	11-12	or any of I goes the accused products.	or any other issues for the accused products.	Typographical error / clarification
209	11	some comes	something comes	Typographical error / clarification
210	20	playing maybe	playing, maybe	Typographical error / clarification
211	3	bike	like	Typographical error / clarification
212	8	Zupan	Zubin	Typographical error / clarification
212	9	each other it's	each other. It's	Typographical error / clarification
214	21	by an a fixed	by a fixed	Typographical error / clarification
215	2	source list	source-less	Typographical error / clarification
215	3	to a some	to some	Typographical error / clarification
216	21	pointing inward and yet	pointing inward. And yet	Typographical error / clarification
216	22	more most rationale for reasons having	more rational for having	Typographical error / clarification
217	1	that would involve	that which would involve	Typographical error / clarification
217	2	you would you would	where you would	Typographical error / clarification
217	5	the lab a have a good	the lab. A good	Typographical error / clarification
217	12	passthrough	pass through	Typographical error / clarification

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127	21	standpoint the	standpoint they	Typographical error / clarification
219	1	examples on the right, it says lab mounted?	example on the right, it says lab mounted.	Typographical error / clarification
219	14	on the head and on left	on the head. And on the left	Typographical error / clarification
219	15	the head so	the head. So	Typographical error / clarification
219	18	be generally be	be generally	Typographical error / clarification
219	19	table	stable	Typographical error / clarification
220	6	concept so you're	concept. So you're	Typographical error / clarification
221	2	prospective	perspective	Typographical error / clarification
221	10-11	Outside looking in this illustrative configuration is worst.	Outside looking in in this illustrative configuration is worse.	Typographical error / clarification
221	20	simple intended to	simple and intended to	Typographical error / clarification
222	13	post	pose	Typographical error / clarification
222	16	three rotation	three rotations	Typographical error / clarification
223	15	inter sense	InterSense	Typographical error / clarification
224	5	for the temperature	with temperature	Typographical error / clarification
227	9	landmarks are using	landmarks we are using	Typographical error / clarification
227	13	on how they were moving	or how they were moving	Typographical error / clarification
228	3	inertials	fiducials	Typographical error / clarification
229	2	that could imagine that uses a sensor	that you could imagine that uses one sensor	Typographical error / clarification
229	15	of area of	or area of	Typographical error / clarification
229	17	to my body to my head	to my body and to my head	Typographical error / clarification
229	20	that so in practice	That. So in practice	Typographical error / clarification
230	18-19	BY MR. RAFATIJO: Q. I say not correct because	BY THE WITNESS: A. I say not correct because	Typographical error / clarification

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231	8	magnet,	magnetic,	Typographical error / clarification
231	10	three of time	three of them	Typographical error / clarification
231	18	So I'm not what	So I'm not sure what	Typographical error / clarification
233	5-6	the figure was I know what it's intent was.	the figure was. I know what its intent was.	Typographical error / clarification
233	9	intended as perfect as it may be but	intended, as perfect as it may be — but	Typographical error / clarification
234	8–9	says you can track you know with this head-mounted camera and do	says you can track, you know, with this head-mounted camera, and do	Typographical error / clarification
234	12	on the left system. It	on the left system, it	Typographical error / clarification
235	9	and system like this	and systems like this	Typographical error / clarification
237	8	accept that it looks likes.	accept that. It looks like it.	Typographical error / clarification
237	10	PTAB?	PTAB.	Typographical error / clarification
238	9	specify whereby where	specify where	Typographical error / clarification
238	19	arrange those and it could	arrange those. And it could	Typographical error / clarification
239	8	multiple types source and sense certificates	multiple types of source and sensor relationships	Typographical error / clarification
239	9	could have a mix ever geometric relationship	could have a mix of every geometric relationship	Typographical error / clarification
241	4	some of which don't and specific	some of which he doesn't. And specifically	Typographical error / clarification
241	8	teach the invention, it looks like	teach the invention. It looks like	Typographical error / clarification
241	10	base station, so everything	base station -- so everything	Typographical error / clarification
241	13	things, but starting at	things. But starting at	Typographical error / clarification
241	1	could be on the kitchen table	could be the kitchen table	Typographical error / clarification
242	4	of five	of column five	Typographical error / clarification
242	6–7	things to a person of ordinary skill that would	things, to a person of ordinary skill, that would	Typographical error / clarification
243	6	isn't tell a person	isn't telling a person	Typographical error / clarification

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243	8	That be just	That would be just	Typographical error / clarification
243	13	what would come for them	what would come to mind for them	Typographical error / clarification
243	21	Sixth Sense	Sixsense	Typographical error / clarification
245	15	something like that engineers	something like that – engineering	Typographical error / clarification
245	16	and trade office and ease of use by consumers but	and trade offs and ease of use by consumers -- but	Typographical error / clarification
245	18	use ago	using a	Typographical error / clarification
245	19	everything work to	everything work and	Typographical error / clarification
245	22	is using wouldn't even	is using it wouldn't even	Typographical error / clarification
246	1	behave the a same way.	behave the same way.	Typographical error / clarification
246	5	like it for me	like for me	Typographical error / clarification
246	15–16	we could read words. Pedrotti is -- says the ways	we could read words --- Pedrotti is --- saying the ways	Typographical error / clarification
246	19	think to a	think a	Typographical error / clarification
247	15	flame	frame	Typographical error / clarification
248	10	so granted	oriented	Typographical error / clarification
248	11	axis	axes	Typographical error / clarification
248	15–16	technology which again super popular would	technology, which again is super popular, would	Typographical error / clarification
248	19	electromagnetic coils orthogonal coils	electromagnetic coils --- orthogonal coils	Typographical error / clarification
249	5	And then the unit that	And then the receiver unit, that	Typographical error / clarification
249	10	off	up	Typographical error / clarification
249	15	distance, three,	distance to all three,	Typographical error / clarification
249	22	what this systems do	what these systems do	Typographical error / clarification
250	10-11	locating at a objection.	located at an object.	Typographical error / clarification

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250	13	sort	source	Typographical error / clarification
250	19	hard beat	heart beat	Typographical error / clarification
251	14	antenna and everything else they said a	antenna, and everything else they said, a	Typographical error / clarification
252	7	I it	I wrote	Typographical error / clarification
252	18	The as I said	As I said	Typographical error / clarification
252	19	The I don't	I don't	Typographical error / clarification
255	4	as you read it says a	as you read, it says a	Typographical error / clarification
255	8	Figure 5 line that of mine	Figure 5 of mine	Typographical error / clarification
255	11	into different places.	in two different places.	Typographical error / clarification
256	12-13	optic sensors (audio distortion) with photo diodes	optical sensors — lateral effect photo diodes	Typographical error / clarification
256	14	head, not on	head, or on	Typographical error / clarification
256	16-17	they were camera mounted	there were cameras mounted	Typographical error / clarification
257	4	generate he had from a	generated from a	Typographical error / clarification
257	12	it's for example	it's an example	Typographical error / clarification
257	15-16	would not be sometime stymied by that	would not be somehow stymied by that	Typographical error / clarification
258	17	Sixth Sense	Sixense	Typographical error / clarification
258	18	Sixth Sense	Sixense	Typographical error / clarification
259	1	That system functions	That system's functions	Typographical error / clarification
259	4-5	the top of column	the top of the next column	Typographical error / clarification
259	6	one I don't know which the probably the source in	one, I don't know, with probably the source in	Typographical error / clarification
259	14	another work stations,	another work station,	Typographical error / clarification

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259	16-17	set is it on wherever	set it on whatever	Typographical error / clarification
260	2	Sixth Sense	Sixense	Typographical error / clarification
260	3	used 3D gaming	used for 3D gaming	Typographical error / clarification
260	7	this is very well-known	this is a very well-known	Typographical error / clarification
260	10	relative	relevant	Typographical error / clarification
263	9	examples that that	examples that	Typographical error / clarification
264	3	that are one would	that one would	Typographical error / clarification
265	2	lead inventors	lead inventor	Typographical error / clarification
265	15	source less	sourceless	Typographical error / clarification
266	22	deputy sensitive	depth sensitive	Typographical error / clarification
267	2	LE Ds,	LEDs,	Typographical error / clarification
267	3	LE Ds	LEDs	Typographical error / clarification
267	17	course	worse	Typographical error / clarification
267	17	optics	objects	Typographical error / clarification
268	15	head, what it said was	Said. What I said was	Typographical error / clarification
268	21	like 39 IR detector camera these are	line 39 IR detector camera. These are	Typographical error / clarification
270	9	the time I'll go look in there also but	the time. I'll go look in there also. But	Typographical error / clarification
271	7	tran receivers	transceivers	Typographical error / clarification
272	10-11	sentence that you had sentence that you had me read	sentence that you had me read	Typographical error / clarification
273	15	include	including	Typographical error / clarification
273	21	saying that that McCulloch	saying that McCulloch	Typographical error / clarification
274	10	not X sure exactly	not sure exactly	Typographical error / clarification

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274	13	mechanism, there	mechanisms. There	Typographical error / clarification
275	17	those passages don't that I don't state	those passages don't do what I don't state	Typographical error / clarification
278	19	those to	those two	Typographical error / clarification
278	20	Sony I device	Sony eye device	Typographical error / clarification
278	22	Greg the random	Greg with a random	Typographical error / clarification
279	3	If you are I'd be happy	If you want, I'd be happy	Typographical error / clarification
279	14	the sentence says. The	the sentence says, the	Typographical error / clarification
279	22	could be use	could be used	Typographical error / clarification
280	1	today	to	Typographical error / clarification
280	4-5	that you could be sensors cameras	that there could be sensors and cameras	Typographical error / clarification
280	11-12	A That's the purpose of McCulloch's capture devices.	BY MR. RAFATIJO: That's the purpose of McCulloch's capture devices.	Typographical error / clarification
282	9	certainly those	certainly say those	Typographical error / clarification
282	10	devices and that place	devices at that place	Typographical error / clarification
282	17	broker	broken	Typographical error / clarification
282	22	with a limb additional	with a little additional	Typographical error / clarification
285	11	for control a	for controlling a	Typographical error / clarification
286	9-10	They may functionally	They may be functionally	Typographical error / clarification
287	8	Sixth Sense	Sixense	Typographical error / clarification
288	7-8	do it that way I don't see it that way as an earth – where I believe	do it that way. I don't see it that way. I believe	Typographical error / clarification
290	22	in sides.	inside.	Typographical error / clarification
292	10	there is advantages	there are advantages	Typographical error / clarification

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292	16	things that that could	things that could	Typographical error / clarification
293	16	off load	offload	Typographical error / clarification
293	18	that there are comparable but they are there are just other	that they are comparable but there are just other	Typographical error / clarification
295	8-9	-- a specific things.	-- specific things.	Typographical error / clarification
295	14	A similar is	And similar is	Typographical error / clarification
301	2	So things are tracked are	So things that are tracked are	Typographical error / clarification
304	2	or at minimum	or at a minimum	Typographical error / clarification
305	7	or device displaces 8 which include the	or display device 8 which includes the	Typographical error / clarification
307	6	but my memory	but by memory	Typographical error / clarification
308	16	like	lack	Typographical error / clarification
310	10-12	A Okay. And those words in the quotations would they say that HMD tracks controller. I'm not aware that particular passage says that	A Okay. BY MR. RAFATIJO: And those words in the quotations would they say that HMD tracks controller. BY THE WITNESS: I'm not aware that particular passage says that	Typographical error / clarification
312	8	proceeding	preceding	Typographical error / clarification
313	18	that's what it's there.	that's why it's there.	Typographical error / clarification
316	14-15	doing a very specific things	doing very specific things	Typographical error / clarification

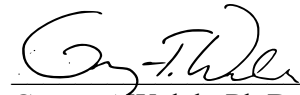
META PLATFORMS, INC., ET AL. V. EIGHT KHz, LLC
IPR2023-01021, IPR2023-01022, IPR2023-01023

Having reviewed the deposition testimony in my May 3, 2024 transcript, I state and acknowledge under penalty of perjury that any changes made above were made by me or at my direction and are hereinafter to be considered part of my sworn deposition testimony.

I also hereby declare that I was deposed on May 3, 2024 in the matters captioned *Meta Platforms, Inc., et al. v. Eight kHz, LLC*, IPR2023-01021, IPR2023-01022, and IPR2023-01023, I read the May 3, 2024 transcript from my deposition and know the contents thereof, and the same is true of my knowledge except as to the matters which are therein stated upon my information or belief, and as to those matters, I believe them to be true.

I declare under the penalties of perjury that the foregoing is true and correct.

Executed this 31st day of May, 2024, at Longwood, Florida.
(City) (State)



Gregory Welch, Ph.D.