Exhibit 4



Petition for Inter Partes Review of U.S. Patent No. RE45,415

TABLE OF CONTENTS

1.	INTR	טטט	CTION		
II.	QUALIFICATIONS				
11.	QUALIFICATIONS				
III.	MATERIALS CONSIDERED				
IV.	DEFINITIONS AND STANDARDS				
V.	STATE OF THE ART10				
VI.	THE '415 PATENT				
٧ 1.	1111	7131	TILIVI	1	
VII.	CLAI	M CO	ONSTRUCTION	11	
	A.		ical Distance"		
	B.		robubble"		
	C.		obubble"		
	D.	"Sup	ersaturated"	13	
VIII	ANA	ı vçi	S OF PRIOR ART	1 4	
V 111.	ANA.		Patent No. 4,917,782 ("Davies")		
	Λ.	i.	Overview of Davies		
		ii.	Davies Cell Embodiment #1	42	
		iii.	Davies Cell Embodiment #2		
		iv.	Faithful and Accurate Reproduction of Davies Cell		
			Embodiment #1	57	
		v.	Testing of Water Electrolyzed by the Reproduced Davies		
			Cell #1	60	
		vi.	Faithful and Accurate Reproduction of Davies Cell		
			Embodiment #2	70	
		vii.	Testing of Water Electrolyzed by the Reproduced Davies		
			Cell #2	73	
	B.	U.S.	Patent No. 5,324,398 ("Erickson")	83	
	C.		Patent No. 5,439,576 ("Schoeberl")		
	D.		Patent No. 3,984,303 ("Peters")		
	E.	U.S.	Patent No. 3,891,535 ("Wikey")		
		i.	Overview of Wikey	15	
		ii.	Faith and Accurate Reproduction of Wikey Cell		
	-	iii.	Testing of Water Electrolyzed by the Wikey Cell		
	F.		ariums for Dummies, First Edition, 1999 ("AFD")		
	G.	U.S.	Patent No. 4,039,439 ("Clark")	4	



Petition for Inter Partes Review of U.S. Patent No. RE45,415

Н.	U.S. Patent No. 6,296,756 ("Hough")	89
I.	Wendt	90
	Han	
K.	Glembotsky	91
	Burns	
M.	Motivation to Combine the Prior Art	97
	The Grounds for Challenge	



Petition for *Inter Partes* Review of U.S. Patent No. RE45,415

I, Dr. Mario Tremblay, make this declaration in connection with the proceeding identified above.

I. INTRODUCTION

1. I have been retained by counsel for TENNANT COMPANY ("Tennant") as a technical expert in connection with the proceeding identified above. I submit this declaration in support of Tennant's Petition for Inter Partes Review ("Petition") of United States Patent No. RE45,415 ("the '415 patent"), Exhibit 1101.

II. QUALIFICATIONS

- 2. My complete qualifications and professional experience are described in my curriculum vitae, a copy of which is attached as Exhibit 1104 to the Petition. Following is a brief summary of my relevant qualifications and professional experience:
- 3. I received a Bachelor of Science degree in 1983 from the University of Florida. I also received a Ph.D degree in Chemistry from the University of Florida in 1987. My Ph.D. emphasis was in analytical chemistry.
- 4. After obtaining my Ph.D., I worked at Procter & Gamble Company ("P&G") for nearly 30 years from 1987-2017, developing products for the personal care industry, including skin care, cosmetics and household care products. From 1987 to 1990, I worked as a Principal Scientist Group Leader responsible for



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

