UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,

Petitioner

v.

CARBYNE BIOMETRICS, LLC,
Patent Owner

IPR2024-00329 U.S. Patent No. 9,972,010

DECLARATION OF CREED JONES, PH.D. UNDER 37 C.F.R. § 1.68 IN SUPPORT OF PETITION FOR INTER PARTES REVIEW



TABLE OF CONTENTS

I.	INTRODUCTION1						
II.	QUALIFICATIONS6						
III.	LEV	EL OF ORDINARY SKILL IN THE ART9					
IV.	RELEVANT LEGAL STANDARDS						
	A.	Antic	ticipation				
	B.	Obvi	ousness	12			
V.	THE '010 PATENT						
	A. Summary of the '010 patent						
	B.	Prose	ecution History	15			
VI.	CLA	IM CC	ONSTRUCTION	16			
VII.	GROUNDS						
	A.	Overview of Prior Art					
		1.	Stone	17			
		2.	Hoyos	18			
		3.	Varghese	21			
		4.	FFIEC Guidance	22			
		5.	Analogous Art	26			
	B.	Ground 1: Claims 1-2, 4-6, 9-10, 12-14, 17, 20-21, and 23 are Rendered Obvious under §103(a) over Stone in view of Hoyos		27			
		1.	Combination of Embodiments of Stone	27			
		2.	Combination of Stone and Hoyos ("Stone-Hoyos")	30			
		3.	Claim 1	37			
		4.	Claim 2	63			
		5.	Claim 4	65			
		6.	Claim 5	68			
		7.	Claim 6	69			
		8.	Claim 9	70			



Inter Partes Review of U.S. Patent No. 9,972,010

	9.	Claim 10	73				
	10.	Claim 12	73				
	11.	Claim 13	73				
	12.	Claim 14	74				
	13.	Claim 17	74				
	14.	Claim 20	76				
	15.	Claim 21	77				
	16.	Claim 23	78				
C.		Ground 2: Claims 7, 15, and 22 are Rendered Obvious under §103(a) over Stone in view of Hoyos and Varghese82					
	1.	Combination of Stone, Hoyos, and Varghese ("Stone-Hovarghese")	•				
	2.	Claim 7	88				
	3.	Claim 15	93				
	4.	Claim 22	94				
D.		Ground 3: Claims 1-2, 4-7, 9-10, 12-15, 17, 20-23 are Rendered Obvious under §103(a) over Stone in view of FFIEC Guidance95					
	1.	Combination of Stone and FFIEC Guidance ("Stone-Guidance")	95				
	2.	Claim 1	97				
	3.	Claim 2	106				
	4.	Claim 4	106				
	5.	Claim 5	106				
	6.	Claim 6	107				
	7.	Claim 7	107				
	8.	Claim 9	109				
	9.	Claim 10	111				
	10.	Claim 12	111				
	11.	Claim 13	111				

Declaration of Creed Jones, Ph.D.

Inter Partes Review of U.S. Patent No. 9,972,010

12.	Claim 14	111
13.	Claim 15	112
14.	Claim 17	112
15.	Claim 20	114
16.	Claim 21	115
17.	Claim 22	116
18.	Claim 23	116
VIII. DECLARA	ATION	120



I. INTRODUCTION

- 1. I, Dr. Creed Jones, have been retained by counsel for Apple Inc., ("Apple" or "Petitioner") as a technical expert in connection with the proceeding identified above. I submit this declaration in support of Apple's Petition for *Inter Partes* Review of U.S. Patent No. 9,972,010 ("the '010 patent").
- 2. Compensation for my work in this matter is based on an hourly rate. In addition, reasonable and customary expenses associated with my work and testimony in this matter are reimbursed. This compensation is not contingent on the outcome of this matter, nor is it contingent on the specifics of my testimony. I have no personal or financial stake, nor any interest in the outcome of the present proceeding.
 - **3.** In the preparation of this declaration, I have studied:
 - (1) APPL-1001, U.S. Patent No. 11,526,010 to Jakobsson ("'010 patent");
 - (2) APPL-1002, Prosecution File History of U.S. App. No. 13/875,245 (issued as U.S. Patent No. 9,972,010) ("'245 App")
 - (3) APPL-1005, Prosecution File History of U.S. Prov. App. 61/332,140 ("'140 App")
 - (4) APPL-1006, Prosecution File History of U.S. App. No. 13/099,981 (issued as U.S. Patent No. 8,458, 041) ("'981 App")



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.

