Exhibit F

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

META PLATFORMS, INC.,

Petitioner,

v.

JAWBONE INNOVATIONS, LLC,

Patent Owner.

Patent No. 8,503,691 Filing Date: June 13, 2008 Issue Date: August 6, 2013

Inventor: Gregory C. Burnett
Title: VIRTUAL MICROPHONE ARRAYS USING DUAL
OMNIDIRECTIONAL MICROPHONE ARRAY (DOMA)

DECLARATION OF AKBAR M. SAYEED, Ph.D.

Case No. IPR2024-00349



IPR2024-00349 PATENT NO. 8,503,691

TABLE OF CONTENTS

		<u>P</u> 8	age(s)
I.	INTRODUCTION1		
	A.	Background and Qualifications	1
II.	COM	MPENSATION	6
III.	МАТ	ΓERIALS CONSIDERED	6
IV.	LEGAL PRINCIPLES7		
V.	LEVEL OF SKILL IN THE ART		
VI.	THE	CLAIMED INVENTION OF THE '691 Patent	8
VII.	THE	ALLEGED PRIOR ART	13
	A.	Brandstein	13
VIII.	CLA	IM CONSTRUCTION	14
IX.		ITIONER'S COMBINATIONS DO NOT RENDER ANY IM OBVIOUS	14
	A.	GROUND 1: Brandstein Does Not Render Obvious Claims 1-46	14
		1. Petitioner's Combination Does Not Disclose or Render Obvious "the second linear response to noise [is/being] substantially similar to the first linear response to noise, and the second linear response to speech [is/being] substantially dissimilar to the first linear response to speech" as recited in independent Claims 1, 23, 27, 28, 29, and 41.	14
X	CON	ICLUSION	20



IPR2024-00349 PATENT NO. 8,503,691

- I, Akbar M. Sayeed, declare as follows:
- 1. I have been asked by counsel for Patent Owner, Jawbone Innovations, LLC ("Jawbone" or "Patent Owner"), to review U.S. Patent No. 8,503,691 (the "'691 Patent") entitled VIRTUAL MICROPHONE ARRAYS USING DUAL OMNIDIRECTIONAL MICROPHONE ARRAY (DOMA) and to provide my technical review, analysis, insights, and opinions regarding the '691 Patent in view of the prior art cited by Petitioner Meta Platforms, Inc. ("Meta" or "Petitioner"). I submit this declaration in support of Patent Owner's Preliminary Response in this IPR proceeding. I have personal knowledge of the matters stated herein and would be competent to testify to them if required.
- 2. I have been retained on behalf of Jawbone for the above-captioned *inter* partes review proceeding. I understand that the '691 Patent is currently assigned to Jawbone.
- 3. I am over 18 years of age. I have personal knowledge of the facts stated in this Declaration and could testify competently if asked to do so.

I. INTRODUCTION

- A. Background and Qualifications
- 4. I have reviewed and am familiar with the specification of the '691 Patent. I understand the '691 Patent has been provided as Exhibit 1001. I will cite to the specification using the following format: '691 Patent at col.:line.



IPR2024-00349 PATENT NO. 8,503,691

- 5. My CV is being submitted simultaneously herewith (Ex. 2002).
- 6. I received my B.S. degree in Electrical and Computer Engineering (ECE) from the University of Wisconsin-Madison in 1991. I received my M.S. and Ph.D. degrees in ECE from the University of Illinois at Urbana-Champaign in 1993 and 1996, respectively. In my undergraduate and graduate studies, I look a variety of courses generally focusing on the areas of signal processing, communication theory, information theory, electromagnetics and antennas, and statistical techniques in signal processing and communications. My Ph.D. dissertation was entitled "Statistical Time-Frequency Analysis" in which I proposed new framework for statistical signal processing using time-frequency representations, mathematical tools that extend the powerful theory of Fourier transforms and Fourier analysis to time-varying signals and systems.
- 7. I currently work as an Independent Researcher, Engineer and Technical Consultant, and worked as professor of Electrical and Computer Engineering at the University of Wisconsin-Madison from 1997-2021, where I directed the *Wireless Communications and Sensing Laboratory* until my retirement on August 1, 2021 to pursue a career as an independent researcher and consultant.
- 8. My current work as an independent researcher and consultant spans STEM (science, technology, engineering & mathematics) fields through the lens of



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.

