By: Cono A. Carrano, Reg. No. 39,623
David Vondle, Reg. No. 54,515
Akin Gump Strauss Hauer & Feld LLP
1333 New Hampshire Avenue, N.W.
Washington, DC 20036
Tel. (202) 887-4000
Fax. (202) 887-4288

Email: ccarrano@akingump.com, dvondle@akingump.com

### UNITED STATES PATENT AND TRADEMARK OFFICE

### BEFORE THE PATENT TRIAL AND APPEAL BOARD

VIZIO, Inc.
Petitioner
v.
Personalized Media Communications, LLC
Patent Owner

Inter Partes Review No.: Unassigned

DECLARATION OF STUART LIPOFF UNDER 37 C.F.R. § 1.68 IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 7,752,649



# Declaration of Stuart Lipoff Under 37 C.F.R. § 1.68 in Support of Petition for *Inter Partes* Review of U.S. Patent No. 7,752,649

### **Table of Contents**

I.	INTR	ODUCTION					
II.	BACKGROUND AND QUALIFICATIONS						
	A.	A. Educational Background					
	B.	Caree	r History and Relevant Industry Participation	4			
III.	UND	UNDERSTANDING OF PATENT LAW					
IV.	BACKGROUND						
	A.	Summary of the '649 Patent					
	B.	Repre	Representative Claim 39				
	C.	Backg	round of the Field Relevant to the '649 Patent	13			
	D.	Summ	nary of the Prosecution History	21			
V.	LEVE	EL OF ORDINARY SKILL IN THE PERTINENT ART					
VI.	BROADEST REASONABLE INTERPRETATION						
	A.	"digita	al television signals"	29			
	B.	"proce	essor"	29			
	C.	"digita	al video signals"	30			
VII.	DETAILED INVALIDITY ANALYSIS						
VIII.	BACKGROUND ON PRIOR ART REFERENCES						
	A.	Backg	Background on Campbell				
	B.	Backg	ackground on Widergren				
IX.	THE CHALLENGED CLAIMS ARE INVALID OVER CAMPBELL						
	A.		enged Claims are Obvious Based on Campbell in View of the ledge of a POSITA	33			
		1.	Claim 1 is Obvious Over Campbell in View of the Knowledge of a POSITA	34			
		2.	Claim 2 is Obvious Over Campbell in View of the Knowledge of a POSITA	56			
		3.	Claim 3 is Obvious Over Campbell in View of the Knowledge of a POSITA	57			
		4.	Claim 7 is Obvious Over Campbell in View of the Knowledge of a POSITA	59			
		5.	Claim 8 is Obvious Over Campbell in View of the Knowledge of a POSITA	61			



# Declaration of Stuart Lipoff Under 37 C.F.R. § 1.68 in Support of Petition for *Inter Partes* Review of U.S. Patent No. 7,752,649

6.	Claim 11 is Obvious Over Campbell in View of the Knowledge of a POSITA	61
7.	Claim 13 is Obvious Over Campbell in View of the Knowledge of a POSITA	62
8.	Claim 26 is Obvious Over Campbell in View of the Knowledge of a POSITA	64
9.	Claim 27 is Obvious Over Campbell in View of the Knowledge of a POSITA	66
10.	Claim 28 is Obvious Over Campbell in View of the Knowledge of a POSITA	66
11.	Claim 29 is Obvious Over Campbell in View of the Knowledge of a POSITA	67
12.	Claim 39 is Obvious Over Campbell in View of the Knowledge of a POSITA	68
13.	Claim 41 is Obvious Over Campbell in View of the Knowledge of a POSITA	90
14.	Claim 42 is Obvious Over Campbell in View of the Knowledge of a POSITA	91
15.	Claim 45 is Obvious Over Campbell in View of the Knowledge of a POSITA	91
16.	Claim 48 is Obvious Over Campbell in View of the Knowledge of a POSITA	93
17.	Claim 49 is Obvious Over Campbell in View of the Knowledge of a POSITA	94
18.	Claim 50 is Obvious Over Campbell in View of the Knowledge of a POSITA	94
19.	Claim 51 is Obvious Over Campbell in View of the Knowledge of a POSITA	95
20.	Claim 62 is Obvious Over Campbell in View of the Knowledge of a POSITA	95
21.	Claim 63 is Obvious Over Campbell in View of the Knowledge of a POSITA	99
22.	Claim 64 is Obvious Over Campbell in View of the Knowledge of a POSITA	100
23.	Claim 67 is Obvious Over Campbell in View of the Knowledge of a POSITA	101
24.	Claim 78 is Obvious Over Campbell in View of the Knowledge of a POSITA	109



# Declaration of Stuart Lipoff Under 37 C.F.R. § 1.68 in Support of Petition for *Inter Partes* Review of U.S. Patent No. 7,752,649

	2	5.	Claim 82 is Obvious Over Campbell in View of the Knowledge of a POSITA	117	
	2	6.	Claim 83 is Obvious Over Campbell in View of the Knowledge of a POSITA	118	
	2	7.	Claim 84 is Obvious Over Campbell in View of the Knowledge of a POSITA	119	
	2	8.	Claim 88 is Obvious Over Campbell in View of the Knowledge of a POSITA	120	
	2	9.	Claim 90 is Obvious Over Campbell in View of the Knowledge of a POSITA	120	
	3	0.	Claim 91 is Obvious Over Campbell in View of the Knowledge of a POSITA	120	
	3	1.	Claim 92 is Obvious Over Campbell in View of the Knowledge of a POSITA	121	
	3	2.	Claim 93 is Obvious Over Campbell in View of the Knowledge of a POSITA	123	
	3	3.	Claim 94 is Obvious Over Campbell in View of the Knowledge of a POSITA	123	
	3	4.	Claim 97 is Obvious Over Campbell in View of the Knowledge of a POSITA	125	
X.	THE CHALLENGED CLAIMS ARE INVALID OVER CAMPBELL IN VIEW OF WIDERGREN				
	A. V	Viderg	grengren	132	
	B. T	he Co	ombination of Campbell and Widergren	135	
	C. C	Campb	pell in view of Widergren Renders the Challenged Claims Obvious	141	
XI.	SECONI	DARY	CONSIDERATIONS OF NON-OBVIOUSNESS	142	
XII.	CONCL	USIO	N	145	



Declaration of Stuart Lipoff Under 37 C.F.R. § 1.68 in Support of Petition for *Inter Partes* Review of U.S. Patent No. 7,752,649 I, Stuart Lipoff, do hereby declare as follows:

### I. INTRODUCTION

- 1. I have been retained as an expert witness on behalf of VIZIO, Inc. ("VIZIO") for the above-captioned Petition for *Inter Partes* Review ("IPR") of U.S. Patent No. 7,752,649 ("the '649 Patent"). I am being compensated for my time in connection with this IPR at my standard consulting rate of \$375 per hour. My compensation is not affected by the outcome of this matter.
- 2. I have been asked to provide my opinions regarding whether or not Claims 1, 2, 3, 7, 8, 11, 13, 26, 27, 28, 29, 39, 41, 42, 45, 48, 49, 50, 51, 62, 63, 64, 67, 78, 82, 83, 84, 88, 90, 91, 92, 93, 94, and 97 of the '649 Patent ("the Challenged Claims") are invalid as obvious to a person of ordinary skill in the art at the time of the alleged invention (a "POSITA").
- 3. The '649 Patent issued on July 6, 2010, from U.S. Patent Appl. No. 08/449,097 ("the '097 application"), filed on May 24, 1995. (Ex. 1002 at cover). The '649 Patent alleges to be a continuation of a series of applications dating back to U.S. Patent Appl. No. 07/096,096 filed on September 11, 1987, now U.S. Patent No. 4,965,825 ("the '096 Application"). The '096 Application alleges to be a continuation-in-part of a

# 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.

