UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD
SAMSUNG ELECTRONICS AMERICA, INC.
Petitioner
v.
UNILOC 2017 LLC
Patent Owner
IPR2019-00889
PATENT 7,653,508

# PATENT OWNER PRELIMINARY RESPONSE TO PETITION PURSUANT TO 37 C.F.R. §42.107(a)



## **Table of Contents**

THE	E '508 PATENT	1
REL	ATED PROCEEDINGS	2
		2
A.	The Petition Is Not A "Me Too" Petition As Petitioner Alleges, Instead It Is A Serial And Repetitive Attack On The '508 Patent	3
B.	The Board Has Held Denial is Appropriate Under These Facts	5
JOIN	NDER PETITION SHOULD BE LIMITED TO	6
THE	E LEVEL OF ORDINARY SKILL IN THE ART	7
PRO	SECUTION HISTORY	7
CLA	AIM CONSTRUCTION	9
A.	"cadence window"	9
B.	"dominant axis"	10
C.	"a dominant axis logic to continuously determine an orientation of a device, to assign a dominant axis, and to update the dominant axis as the orientation of the device changes"	13
D.	"a counting logic to count periodic human motions by monitoring accelerations relative to the dominant axis"	14
E.	"a counting logic to identify and count periodic human	
	REL THE WIT A.  B. TO T JOIN CHA THE PRO CLA A. B. C.	Alleges, Instead It Is A Serial And Repetitive Attack On The '508 Patent



		motions"14
	F.	"a cadence logic to continuously update a dynamic cadence window"
	G.	"a mode logic, to switch the device from a non-active mode to an active mode after a number of periodic human motions are detected within appropriate cadence windows by the counting logic"
IX.		TIONER FAILS TO MEET ITS BURDEN OF VING OBVIOUSNESS15
	A.	Petitioner fails to prove Fabio renders obvious the "cadence window" limitations of independent claim 6
		1. Petitioner fails to prove Fabio's validation interval (VT) maps onto the distinct definition Petitioner offers for "cadence window"
		2. Petitioner has not and cannot cure Fabio's deficiencies by offering a new, undefended, and inconsistent definition for "cadence window"
		3. Petitioner has not proven obviousness for the "switching" step introducing the "cadence window" term
		4. Petitioner has not proven obviousness for the "counting" step as applied to the "cadence window" term
	B.	Petitioner fails to prove Fabio itself renders obvious the "cadence window" limitations of independent claim 1525
	C.	Petitioner fails to prove Fabio renders obvious the "cadence window" limitations recited in certain dependent claims
	D.	Petitioner fails to prove Pasolini renders obvious "assigning a dominant axis" as recited in claim 1
	E.	Petitioner fails to prove Pasolini renders obvious the



		"updating the dominant axis as the orientation of the inertial sensor changes" as recited in claim 1	30
	F.	The Petition fails to prove obviousness of "counting periodic human motions by monitoring accelerations relative to the dominant axis" as recited in claim 1	32
	G.	Petitioner fails to prove Pasolini renders obvious the "dominant axis" terms recited in independent claim 11	33
	H.	The Petition fails to prove obviousness of "a counting logic to count periodic human motions by monitoring accelerations relative to the dominant axis," as recited in claim 11	34
	I.	The Petition fails to prove obviousness of "wherein the cadence logic adjusts the cadence windows based on a measured cadence associated with the periodic human motion" as recited in claim 20	34
	J.	The Petition fails to prove obviousness of any dependent claim	38
X.		CONSTITUTIONALITY OF <i>INTER PARTES</i> REVIEW HE SUBJECT OF A PENDING APPEAL	38
XI.	CON	CLUSION	38

## **List of Exhibits**

Exhibit No.	Description
2001	Declaration of William C. Easttom



#### I. INTRODUCTION

Uniloc 2017 LLC (the "Uniloc" or "Patent Owner") submits this Preliminary Response to Joinder Petition IPR2019-00889¹ for *Inter Partes* Review ("Pet." or "Petition") of United States Patent No. 7,653,508 ("the '508 patent" or "EX1001") filed by Samsung Electronics America, Inc. ("Petitioner"). The Petition is procedurally and substantively defective for at least the reasons set forth herein.

#### II. THE '508 PATENT

The '508 patent is titled "Human activity monitoring device." The '508 patent issued January 26, 2010, from U.S. Patent Application No. 11/644,455 filed December 22, 2006.

The inventors of the '508 patent observed that, at the time, step counting devices that utilize an inertial sensor to measure motion to detect steps generally required the user to first position the device in a limited set of orientations. In some devices, the required orientations are dictated to the user by the device. In other devices, the beginning orientation is not critical, so long as this orientation can be maintained. EX1001, 1:19–26. Further, the inventors observed that devices at the time were often confused by motion noise experienced by the device throughout a user's daily routine. The noise would cause false steps to be measured and actual steps to be missed in conventional step counting devices. Conventional step

<sup>&</sup>lt;sup>1</sup> The instant Petition and Petitioner seek joinder to IPR2018-01589. *See* Paper 1. Furthermore, as Petitioners state, the instant Petition is "substantially similar" to HTC Corp.'s petition in IPR2018-01589. *Id.*, at 1.



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