

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LG ELECTRONICS, INC., LG ELECTRONICS U.S.A., INC., LG
ELECTRONICS MOBILECOMM U.S.A. INC., LG ELECTRONICS MOBILE
RESEARCH U.S.A. LLC, AND LG ELECTRONICS ALABAMA, INC.,
Petitioner

v.

FUNDAMENTAL INNOVATION SYSTEMS INT'L, LLC
Patent Owner

IPR2018-00493
U.S. Patent No. 7,834,586

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

TABLE OF CONTENTS

I. INTRODUCTION1

II. QUALIFICATIONS2

III. LEVEL OF ORDINARY SKILL IN THE ART7

IV. RELEVANT LEGAL STANDARDS9

V. SUMMARY OF THE TECHNOLOGY10

VI. THE '586 PATENT17

A. Summary of the Patent17

B. Prosecution History20

VII. CLAIM CONSTRUCTION21

 A. “*USB enumeration*”21

VIII. GROUNDS23

 A. Challenge 1: Claims 8-9 are unpatentable under 35 U.S.C. § 103(a) over Dougherty in view of DeJaco and Shiga.....23

 1. Summary of Dougherty.....23

 2. Summary of DeJaco27

 3. Reasons to Combine Dougherty and DeJaco.....28

 4. Summary of Shiga.....32

 5. Reasons to Combine Dougherty and Shiga34

 6. Claim 838

 7. Claim 962

 B. Challenge 2: Claim 10 is unpatentable under 35 U.S.C. § 103(a) over Dougherty in view of DeJaco, Shiga, and Casebolt.....64

 1. Summary of Casebolt.....64

 2. Reasons to Combine Dougherty and Shiga with Casebolt65

 3. Claim 1068

C.	Challenge 3: Claims 11-12 are unpatentable under 35 U.S.C. § 103(a) over Dougherty in view of DeJaco, Shiga, and Kalogeropoulos.....	71
1.	Summary of Kalogeropoulos	71
2.	Reasons to Combine Dougherty and Kalogeropoulos.....	72
3.	Claim 11	75
4.	Claim 12.....	84
D.	Challenge 4: Claim 13 is unpatentable under 35 U.S.C. § 103(a) over Dougherty in view of DeJaco, Shiga, Kalogeropoulos, and Casebolt	84
1.	Reasons to Combine Dougherty, Shiga, Kalogeropoulos, and Casebolt.....	84
2.	Claim 13	84
E.	Challenge 5: Claim 10 is unpatentable under 35 U.S.C. § 103(a) over Kanamori	85
1.	The Priority of the '586 Patent.....	85
2.	Summary of Kanamori.....	86
3.	Claim 10	90
F.	Challenge 6: Claim 13 is unpatentable under 35 U.S.C. § 103(a) over Kanamori in view of Richard	106
1.	The Priority of the '586 Patent.....	106
2.	Summary of Richard	107
3.	Reasons to Combine Kanamori and Richard.....	108
4.	Claim 13	111
IX.	DECLARATION.....	119

I. INTRODUCTION

1. I, Jonathan R. Wood, have been retained by counsel for LG Electronics, Inc., LG Electronics U.S.A. Inc., LG Electronics Mobilecomm U.S.A. Inc., LG Electronics Mobile Research U.S.A. LLC, and LG Electronics Alabama, Inc. (collectively “LGE” or “Petitioner”) as a technical expert in connection with the proceeding identified above. I submit this declaration in support of LGE’s Petition for Inter Partes Review of U.S. Patent No. 7,834,586 (“the ’586 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) The ’586 Patent, LGE-1001;
- (2) The prosecution history of the ’586 Patent, LGE-1002;
- (3) U.S. Patent No. 7,360,004 to Dougherty *et al.* (“Dougherty”), LGE-1005;
- (4) U.S. Patent No. 6,745,024 to DeJaco *et al.* (“DeJaco”), LGE-1006;
- (5) U.S. Patent No. 6,625,738 to Shiga (“Shiga”), LGE-1008;

- (6) Universal Serial Bus Specification, Revision 2.0, April 27, 2000
("USB 2.0"), LGE-1010;
- (7) U.S. Patent No. 6,625,790 to Casebolt *et al.* ("Casebolt"), LGE-1011;
- (8) U.S. Patent No. 6,337,560 to Kalogeropoulos *et al.*
("Kalogeropoulos"), LGE-1012;
- (9) U.S. Patent Pub. No. 2008/0272741 to Kanamori ("Kanamori"), LGE-1013; and
- (10) U.S. Patent Pub. No. 2007/0239019 to Richard *et al.* ("Richard"), LGE-1019.

4. In forming the opinions expressed below, I have considered:

- (1) The documents listed above;
- (2) Any additional documents discussed below; and
- (3) My own knowledge and experience based upon my work in the fields of communication and power electronics.

II. QUALIFICATIONS

5. My qualifications and professional experience are described in my *Curriculum Vitae*, a copy of which can be found in exhibit LGE-1004. The following is a brief summary of my relevant qualifications and professional experience.

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