

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent of: Erik Dahlman et al.  
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Title: TRANSMISSION OF SYSTEM INFORMATION ON A  
DOWNLINK SHARED CHANNEL

**DECLARATION OF JONATHAN WELLS, Ph.D.**

## TABLE OF CONTENTS

I.	ASSIGNMENT.....	4
II.	QUALIFICATIONS.....	4
III.	LEGAL PRINCIPLES.....	10
	A. Anticipation.....	10
	B. Obviousness.....	11
	C. Claim Construction.....	12
IV.	PERSON OF ORDINARY SKILL IN THE ART.....	13
V.	MATERIALS CONSIDERED.....	13
VI.	BACKGROUND OF THE '357 PATENT.....	17
	A. Subject Matter Overview.....	17
	B. File History of the '357 Patent.....	19
VII.	OVERVIEW OF THE PRIOR ART.....	20
	A. Lee-746.....	20
	B. Lee-668.....	22
	C. R2-072183.....	26
	D. R2-071911.....	27
	E. Mukherjee.....	27
	F. Classon.....	29
	G. R2-071762.....	31
	H. R2-071337.....	33
VIII.	ANALYSIS OF LEE-746 IN VIEW OF Lee-668 AND R2-072183 (CLAIMS 1-2, 9-10, 22, 24).....	34
	A. The Combination of Lee-746 and Lee-668.....	34
	B. Reasons to Combine Lee-746 and Lee-668.....	37
	C. The Combination of Lee-746, Lee-668, and R2-072183.....	40
	D. Reasons to Combine Lee-746, Lee-668, and R2-072183.....	44
	E. Analysis of Claims 1-2, 9-10, 22, and 24.....	48
IX.	ANALYSIS OF LEE-746 IN VIEW OF LEE-668, R2-072183, AND R2- 071911 (CLAIMS 3 AND 23).....	65

A.	The Combination of Lee-746, Lee-668, R2-072183, and R2-071911 .....	65
B.	Reasons to Combine Lee-746, Lee-668, R2-072183, and R2-071911 .....	66
C.	Analysis of Claims 3 and 23.....	69
X.	ANALYSIS OF LEE-746 IN VIEW OF LEE-668, R2-072183, AND MUHKERJEE (CLAIM 4).....	71
A.	The Combination of Lee-746, Lee-668, R2-072183, and Mukherjee .....	72
B.	Reasons to Combine Lee-746, Lee-668, R2-072183, and Mukherjee.....	75
XI.	ANALYSIS OF LEE-746 IN VIEW OF LEE-668, R2-072183, AND CLASSON (CLAIMS 6 AND 7) .....	79
A.	The Combination of Lee-746, Lee-668, R2-072183, and Classon .....	79
B.	Reasons to Combine Lee-746, R2-072183, and Classon.....	80
XII.	ANALYSIS OF LEE-746 IN VIEW OF LEE-668, R2-072183, AND R2- 071762 (CLAIM 8).....	84
A.	The Combination of Lee-746, Lee-668, R2-072183, and R2-071762.....	85
B.	Reasons to Combine Lee-746, Lee-668, R2-072183, and R2-071762 ....	86
XIII.	ANALYSIS OF LEE-746 IN VIEW OF R2-072183 AND R2-071337 (CLAIMS 12 AND 17).....	90
A.	The Combination of Lee-746, R2-072183, and R2-071337 .....	90
B.	Reasons to Combine Lee-746, R2-072183, and R2-071337.....	92
C.	Analysis of Claims 12 and 17.....	96
XIV.	ANALYSIS OF LEE-746 IN VIEW OF R2-072183, R2-071337, AND CLASSON (CLAIMS 14-15 AND 19-20).....	100
A.	Combination and Reasons to Combine Lee-746, R2-072183, R2-071337, and Classon.....	101
B.	Analysis of Claims 14-15 and 19-20.....	101
XV.	ANALYSIS OF LEE-746 IN VIEW OF R2-072183, R2-071337, AND R2- 071762 (CLAIMS 16 AND 21).....	104
XVI.	ADDITIONAL REMARKS .....	105

I, Jonathan Wells, Ph.D, of Pleasanton, California, declare that:

## **I. ASSIGNMENT**

1. I have been retained as a technical expert by counsel on behalf of Samsung Electronics Co., Ltd. (“Samsung” or “Petitioner”). I understand that Samsung is requesting that the Patent Trial and Appeal Board (“PTAB” or “Board”) institute an *Inter Partes* Review (“IPR”) proceeding of U.S. Patent No. 8,995,357 (“the ’357 patent”) (SAMSUNG-1001).

2. I have been asked to provide my independent analysis of the ’357 patent in light of the prior art publications cited below.

3. I am not, and never have been, an employee of Samsung. I received no compensation for this declaration beyond my normal hourly compensation based on my time actually spent analyzing the ’357 patent, the prior art publications cited below, and the issues related thereto, and I will not receive any added compensation based on the outcome of any IPR or other proceeding involving the ’357 patent.

## **II. QUALIFICATIONS**

4. I have over 30 years of academic and industry experience in wireless networks (e.g., 2G, 3G, 4G and 5G networks, comprising GSM, WCDMA, LTE and NR technologies), cellular infrastructure equipment (handsets, base stations and backhaul), and wireless standards, rules and regulations (e.g., 3GPP, ETSI and

FCC). Over my career, I have developed and deployed radio frequency (RF) hardware for telecommunication infrastructure equipment for worldwide export, implemented marketing and product development strategies for cellular wireless products, and participated in European Telecommunications Standards Institute (“ETSI”), Federal Communications Commission (“FCC”) and other technical body meetings.

5. I received a Bachelor of Science (B.Sc.) degree in Physics with Physical Electronics, awarded with 1st Class Honours, from the University of Bath, Bath, United Kingdom, in 1987. In 1991, I earned my Doctor of Philosophy (Ph.D.) also from the University of Bath. I earned my Master of Business Administration (M.B.A.) degree, awarded with distinction, from Massey University in New Zealand, in 1998.

6. I began my career in 1985, as an Engineer for Plessey Research, Caswell, United Kingdom, developing high-speed fiber optic transmitter/receiver devices. In 1987, I worked at British Aerospace, Bristol, United Kingdom, designing and fabricating novel mixer devices to support my Ph.D. research. From 1990 to 1992, I worked at the University of Bath as a Postdoctoral Research Officer. During this time, I designed and fabricated novel quantum amplifiers in a clean room environment and developed computer models to predict semiconductor device performance.

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