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101682099	Attorney Docket No.: PA010047		
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Submission Type	Conveyance Type		
⊠New	Assignment		
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Conveying Party(ies) Mark i	f additional names are attached		
NAME	EXECUTION DATE		
	Month, Day, Year (MMDDYYYY)		
1. Khaled H. El-Maleh	03/27/2001		
2. Arasanipalai K. Ananthapadmanabhan	03/30/2001		
3. Andrew P. DeJaco	03/27/2001		
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Receiving Party Mark if additional names are attached			
Name: QUALCOMM Incorporated			
A Delaware Corporation			
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Pages (Enter the total number of pages of the attached conveyar	ice document including any attachments)		
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Application Number(s) or Patent Number(s)			
If this document is being filed together with a new application			
Patent Application Number(s):	Patent Number(s):		
1. 09/771,508 filed 01/24/2001	1.		
2.	2.		
3.	3.		
4.	4.		
Patent Cooperation Treaty (PCT)			
(Enter only if a U.S. Application Number has not been assigned)			
1. PCT/	3. PCT/		
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Name: Kyong H. Macek, Reg. No. 42,977	Signature:		
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Page 1	of 1		

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(TRANSASSIGN.VER1.6-1/17/2001)

REEL: 011690 FRAME: 0061

ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that we Khaled H. El-Maleh, a citizen of Canada having a place of residence at 7675 Palmilla Dr., Apt. 6314, San Diego, California 92122-5093; Arasanipalai K. Ananthapadmanabhan, a citizen of India having a place of residence at 10187 Camino Ruiz, #127, San Diego, California 92126; and Andrew P. DeJaco, a citizen of the United States of America having a place of residence at 9705 Caminito Mojado, San Diego, California 92026; have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to a ENHANCED CONVERSION OF WIDEBAND SIGNALS TO NARROWBAND SIGNALS by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on January 24, 2001, and assigned Serial No. 09/771,508, and all original and reissue patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that we have full right to do so, and agree that we will communicate to said corporation or its representatives all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

[PA010047ASSN]

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 27 day of March, 2001.

Khaled H. El-Maleh

Done at San Diego, California this 30th day of MARCH, 2001.

Arasanipalai K. Ananthapadmanabhan

Done at San Diego, California this 27 th day of hour,

, 2001.

Andrew P. De Jaco

[PA010047ASSN]

RECORDED: 04/06/2001