						Attorney Docket No. 27951-22
FORM PTO-1555 (Rev. 6-93)		02-22-1999		Ξ	ET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
-	lo. 0651-0011 (exp. 4/94) <i>Tab settings</i> → → ▼			_	▼	
	To the Honorable Commissione.	1009682	59	te	ached original o	locuments or copy thereof.
1.	Name of conveying party(ies):		2.		and addre (ies):	ss of receiving
	Kumar BALACHANDRAN, - January Rajaram RAMESH, - January 26, 19: Havish KOORAPATY, - January 26, Eric WANG, - January 26, 1999 Sandeep CHENNAKESHU, - January Amer HASSAN - February 4, 1999	99 (1999		7001 P. O. Resea		9 gle Park, N.C. 27709
Additional name(s) of conveying attached? Yes x No		ng party(ies)			name(s) & Yes	address(es) <u>x</u> No o
3. <u>X</u>	Nature of conveyance:	Merger Change of Name				48506 48506
Execu	Other	above)	MRI	211	0.99	549 U
4.	Application number(s) o	r patent number(s):		•	jo
If th	is document is being fil cation is: (See Box 1.	ed together with above)	a new a	applica	ation, th	e execution date of the
	A. Patent Application	n No.(s)		В.	Patent N	(o.(s)
	Additio	nal numbers attac	hed?	Y	es <u>x</u>	No
5.	Name and address of par correspondence concerni	ty to whom ng document	6.	Total paten	number o	of applications and red:1_
	Brian D. Walker Jenkens & Gilchrist, P. 1445 Ross Avenue, Suite Dallas, Texas 75202-279	3200	7.		Enclosed	ed to be charged to
			8.		it accour 0447	t number:
		DO NOT USE	THIS S	SPACE		
9.	Statement and signature	•				
	To the best of my knowl and any attached copy i	edge and belief, s a true copy	the for	regoing	g informa document	tion is true and correct
ı	Brian D. Walker, Req. Name of Person Signing		ature	19/2		2/) 2/99 Date
	Total number of pag	ges including cove	er shee	t, att	achments,	and document:
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Signature

02/18/1999 JUNTKINS 00000054

IPDAL: 177862.2 27951-00224USPT

PATENT REEL: 9762 FRAME: 0576 **ASSIGNMENT**

WHEREAS, we, Kumar BALACHANDRAN, Rajaram RAMESH, Havish KOORAPATY,

Eric WANG, Sandeep CHENNAKESHU and Amer HASSAN, have invented

certain new and useful improvements in the following:

SYSTEM AND METHOD FOR CODING IN A TELECOMMUNICATIONS ENVIRONMENT

USING ORTHOGONAL & NEAR-ORTHOGONAL CODES

for which we have made application for United States Letters

Patent, said application having been executed by us on or around

January <u>~7</u>, 1999.

WHEREAS, ERICSSON INC., a corporation organized and existing

under the laws of Delaware, having its principal place of business

at 7001 Development Drive, P.O. Box 13969, Research Triangle Park,

North Carolina 27709 (hereinafter referred to as "ASSIGNEE"), is

desirous of acquiring our entire right, title and interest in and

to the invention, in and to said application and any Letters Patent

that may issue thereon.

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00)

and other good and valuable consideration, the receipt and

sufficiency of which is hereby acknowledged, we do hereby sell,

assign and transfer unto ASSIGNEE, its successors, assigns and

legal representatives our entire right, title and interest in and

to said invention, in and to said application and all patents which

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may be granted therefrom and in and to all divisions, reissues, reexaminations, substitutions, continuations, continuations-in-part or extensions thereof; and we hereby authorize and request the Commissioner of Patent and Trademarks or his delegates to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to said ASSIGNEE of our entire, right, title and interest, its successors, assigns or legal representatives.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in said ASSIGNEE, its successors, assigns and legal representatives.

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We hereby further agree that each of us will individually communicate to said ASSIGNEE, its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, each of us will testify in any legal proceedings, sign all lawful papers, execute all provisional, divisional, continuation, continuation—in—part, reissue, reexamination or substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

We hereby grant the law firm of Jenkens & Gilchrist, P.C., of 1445 Ross Avenue, Suite 3200, Dallas, Texas 75202 and its agents, the power to insert on this assignment document any further identification, including but not limited to application number(s) and filing dates, which may be necessary or desirable in order to comply with any rule or request of the United States Patent and Trademark office for the purposes of recording this assignment document.

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I have EXECUTED this instrument on the 26th day of January 1999 in the County of Wake , State of Novth Carolina Kumar BALACHANDRAN
On the 21th day of January, 1999, before me personally appeared Kumar BALACHANDRAN, to me known and known to me to be the individual named in and who executed the foregoing instrument, and acknowledged that he executed the same.
SUBSCRIBED AND SWORN TO before me this day of January, 1999 in the County of Wake, State of VC.
Printed Name: Notary Public in and for the State of NC My Commission Expires: March 1, 2003
I have EXECUTED this instrument on the 26th day of January 1999 in the County of, State of Rajaram RAMESH
On the 24 day of January 1999, before us personally appeared Rajaram RAMESH, to 26 known and known to 25 to be the individual named in and who executed the foregoing instrument, and acknowledged that he executed the same.
SUBSCRIBED AND SWORN TO before me this 26 day of January 1999. Author O. Muddwoll Printed Name: Barbara A. Friedewald Notary Public in and for the State of NC March 1, 2003

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I have EXECUTED this instrument on the $\frac{27}{NC}$ day of January 1999 in the County of $\frac{NC}{NC}$.
C. Sandier
Sandeep CHENNAKESHU
On the <u>37</u> day of January 1999, before us personally appeared Sandeep CHENNAKESHU, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he executed the same.
SUBSCRIBED AND SWORN TO before me this 27 day of January 1999.
Printed Name: <u>(Until R Coxwell</u> Notary Public in and for the State of <u>NC.</u> My Commission Expires: <u>March 04, 2001</u>
I have EXECUTED this instrument on the 4th day of January 1999 in the County of King, State of WA. February Amer HASSAN
On the 4 day of January 1999, before us personally appeared Amer HASSAN, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he executed the same.
SUBSCRIBED AND SWORN TO before me this 4 day of January 1999.
Bruda H. Gejsbeck
Printed Name: <u>Brenda K. GeiJSbeek</u> Notary Public in and for the State of <u>ubsurgeon</u> My Commission Expires: <u>Sept. 10, 2001</u>

I have EXECUTED this instrument on the 26 day of January 1999 in the County of WAKE, State of NORTH CAROLINA
Harrish KOOPADATY
Havish KOORAPATY
On the 2/2 day of January 1999, before us personally appeared Havish KOORAPATY, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he executed the same.
SUBSCRIBED AND SWORN TO before me this 26 day of January 1999.
Barbara a. Treedeworth
Printed Name: Barbara A. Friedewald Notary Public in and for the State of NC My Commission Expires: March 1, 2003
I have EXECUTED this instrument on the 26th day of January 1999in the County of WAKE, State of North Careline
I from Wy
Eric WANG (
On the 26th day of January 1999, before us personally appeared Eric WANG, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he executed the same.
SUBSCRIBED AND SWORN TO before me this 24 day of January 1999.
Barbara 9. Krielworth
SUBSCRIBED AND SWORN TO before me this 26 day of January 1999. Author O. Kuelevall Printed Name: Barbara A. Friedewald Notary Public in and for the State of NC My Commission Expires: March 1, 2003

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RECORDED: 02/10/1999