BOX ASSIGNMENTS	00-12-200		DO NOT USE	FOR TRADEMARKS
8-6-03		HEET S ONL	Υ /	
TO THE ASSISTANT COMMISSIO SIR: PLEASE RECORD THE ATTAC		O NISOR COPY THER	REOF.	
1. NAME OF CONVEYING PARTY	SHASSIGNORS(S)):	10000		
1. Timo KAUHANEN	6.7	2. Pekka RUUSKA	F I	1
3. Tommi KOKKOLA	6 2003 &	4. Juha KURKILAH	H	
	0 2003 📆	6. 8.		
7. ADDITIONAL NAME(S) OF CONVEY	ING PASTVIES ATTACH			
RAD	EMARIN	FD: [] 153 [MO		,
2. PARTY(IES) (ASSIGNEE(S)) RECI	EIVING INTEREST:			
NAME: Nokia Networks Oy				}
ADDRESS: Keilalahdentie 4, FIN-021	50 Espoo, FINLAND			
ADDITIONAL NAME(S) & ADDRESS	(ES) ATTACHED? YES	S ⊠NO		
3. NATURE OF CONVEYANCE (DO				
(Submit herewith only one document)	ent for recordation—multiple	e copies of same Assiç	nment signed by differe	ent inventors is one
	HOLE PART INTE	REST EXEC	C. DATE: 1) August 21,	2003; 2) July 25,
⊠original □f.	ACSIMILE/PHOTOCOPY		; 3) August 29, 2000; 4)	August 25, 2000;
	ERIFIED TRANSLATION	(5) Ai	ıgust 25, 2000	
	OTHER:			
EXECUTION DATE(S) ON THE DEC ASSIGNMENT DIFFER SEE ATTY!)	LARATION IF FILED HERE	EWITH: (<u>note</u> : If da	TES ON DECLARATIO	N AND
4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO				
4.5 APPL, NO.(S) OR PAT NO.(S). C	THERS ON ADDITIONAL	SHEET(S) attached?	∐YES ∐NO	
4.5 APPL. NO.(S) OR PAT NO.(S). C A. PAT. APP. NO.(S) M#	1# INVENTOR	B. PATENT NO(S)	LYES LNO	1st INVENTOR
				1st INVENTOR if not in item 1
A. PAT. APP. NO.(S) M# series code/serial no 09/600,083 271467	1st INVENTOR If not in Item 1 KAUHANEN	B. PATENT NO(S)	M#	
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A. PAT. APP. NO.(S) series code/serial no 09/600,083 271467 Name & Address of Party to Whor Concerning Document Should be Pillsbury Winthrop LLP P.O. Box 10500 McLean, VA 22102	1# INVENTOR If not in item 1 KAUHANEN m Correspondence	6. NUMBER INVO APPLNS 1 + P. 7. AMOUNT OF FE ABOVE TOTAL	M# DLVED: ATS 0 = TOTAL E ENCLOSED: (Code ! x \$40 = \$40	1 1 581)
A. PAT. APP. NO.(S) series code/serial no 09/600,083 271467 5 Name & Address of Party to Whor Concerning Document Should be Pillsbury Winthrop LLP P.O. Box 10500	1# INVENTOR If not in item 1 KAUHANEN m Correspondence	6. NUMBER INVOAPPLNS 1 + PATENT OF FEABOVE TOTAL 8. IF ABOVE FEE IS	M# DLVED: ATS 0 = TOTAL E ENCLOSED: (Code \$ x \$40 = \$40 S MISSING OR INADEQU	1 1 581) ATE CHARGE
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A. PAT. APP. NO.(S) series code/serial no 09/600,083 271467 5 Name & Address of Party to Whor Concerning Document Should be Pillsbury Winthrop LLP P.O. Box 10500 McLean, VA 22102 5.5ATTY DKT: PMS 271467	1# INVENTOR If not in Item 1 KAUHANEN TO Correspondence Mailed: 2980603US/A/kop	6. NUMBER INVO APPLNS 1 + PA 7. AMOUNT OF FE ABOVE TOTAL 8. IF ABOVE FEE IS INSUFFICIENCY UNDER ORDER NO	M# DLVED: ATS 0 = TOTAL E ENCLOSED: (Code 5 x \$40 = \$40 B MISSING OR INADEQUATO DEPOSIT ACCOUNT D 60258	1 1 581) ATE CHARGE NUMBER: 03-3975 271467
A. PAT. APP. NO.(S) series code/serial no 09/600,083 271467 5 Name & Address of Party to Whor Concerning Document Should be Pillsbury Winthrop LLP P.O. Box 10500 McLean, VA 22102 5.5ATTY DKT:	1# INVENTOR If not in Item 1 KAUHANEN m Correspondence Mailed:	6. NUMBER INVO APPLNS 1 + PA 7. AMOUNT OF FE ABOVE TOTAL 8. IF ABOVE FEE IS INSUFFICIENCY	M# DLVED: ATS 0 = TOTAL E ENCLOSED: (Code 5 x \$40 = \$40 B MISSING OR INADEQUATO DEPOSIT ACCOUNT D 60258	if not in item 1 1 581) ATE CHARGE NUMBER: 03-3975
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FILE WITH PTO RETURN RECEIPT (PAT-103A)

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ROX ASSIGNMENTS 9150	DO NOT LISE FOR TRADEMARKS
TO THE ASSISTANT COMMISSIONE 102489	325
GIV. I ELPOE REGORD THE ATTACHEL	0F.
1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)): / 1. Timo KAUHANEN	2. Pekka RUUSKA
3. Tommi KOKKOLA	4. Juha KURKILAHTI
5. Kimmo LAAKKONEN	6.
7. ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHI	8. ED? □YES ⊠NO
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:	
NAME: Nokia Networks Oy	
ADDRESS: Keilalahdentie 4, FIN-02150 Eposs, FINLAND	
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES	⊠NO .
NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document for recordation—multiple)	copies of same Assignment signed by different inventors is one
document) ☐ Classignment of ☐ Whole ☐ Part Intel ☐ Part Intel	REST EXEC. DATE: July 25, 2000; August 21, 2000;
GORIGINAL GRACSIMILE/PHOTOCOPY	August 25, 2000; August 29, 2000
CHANGE OF NAME VERIFIED TRANSLATION	
SECURITY MERGER OTHER:	
EXECUTION DATE(S) ON THE DECLARATION IF FILED HERE	WITH: (<u>NOTE</u> : IF DATES ON DECLARATION AND
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4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL	SPIEET(S) SUBCHOUT TES NO
09/600,083 271467 KAUHANEN	
Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:	6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1
Pilisbury Madison & Sutro LLP	7. AMOUNT OF FEE ENCLOSED: (Code 581)
Intellectual Property Group	ABOVE TOTAL x \$40 = \$40
1100 New York Avenue, NW	
Ninth Floor Washington, DC 20005-3918	
S.SATTY DKT:	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
	INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
PMS 271467 2980603US/A/kop	UNDER ORDER NO 60258 271467 dup. sheet not required CLIENT NO. MATTER NO.
STORE LIMATTER NO COLOR SECONDO CLIENT REF.	dup, sheet not required CLIENT NO. MATTER NO.
C:581 40.00 0P	
9. STATEMENT AND SIGNATURE.	
To the best of my knowledge and belief, the foregoing inform	ation is true and correct and any attached copy is a true copy of
the original document.	
	10. Total number of pages including this cover sheet, attachments and document 2
1 // 3 ///.	cover sheet, attachments and document 2
1 1/ . //K A. N. N. D	(do not file dun Cover sheet)
Jan Barella	(do not file dup. Cover sheet)
Signature Astronomic Inv. M. Finkolstein	(do not file dup. Cover sheet)
Attorney: Jay M. Finkelstein Reg. No. 21082	(do not file dup. Cover sheet) Date: September 13, 2000

TEL: (202) 861-3623 FAX: (202) 822-09-FILE WITH PTO RETURN RECEIPT (PAT-103A)

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Please return signed/recorded to:

Pilisbury Madison & Sutro LLP intellectual Property Group Ninth Floor, East Tower 1100 New York Avenue, N.W. Washington, D.C. 20005-3918

For Inventions made outside USA executed with or after application Atty. Dkt. PM

USA Patent Appin. Sole or Joint

With of amer addit	300D
PM	
M#	Client Ref.

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ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

li the undersigned, to	n consideration of the sum of Ten Dollars wit:	(\$10.00) and other good and val	uable consideration paid to each of
NSERT	(1) Timo KAUHANEN	(2)	Pekka RUUSKA
NAME(S) OF	(3) Tommi KOKKOLA	(4)	Juha KURKILAHTI
INVENTOR(8)	(5) Kimmo LAAKKONEN		x box if continued on page 2
and transfer(s) unt	ficiency of which are hereby acknowledge o:	ed by the undersigned who at the	request of, hereby sell(s), assign(s)
INSERT	NOKIA_NETWORKS		
NAME(8) OF	Keilalahdentie		
ASSIGNEE(S)	FIN-02150 Espoo)	
& ADDRESS(ES)	Finland		
	ASSIGNEE") the entire right, title and interest for the Unit linuations, substitutes, and releases thereof; and all resul		190, in the invention and all applications including
TITLE OF INVENTION	Control of a multicall in for which the undersigned executed as		
<u>NOTE</u> → → (Complete line A, B and/or C)	(A) even date herewith (B) X on 3rd July 2000, 2	5th July 2000, 25th Au	gust 2000 and 29th August 200
hereinafter act on behalf essential by ASSIGNEE	AND the undereigned hereby agree(s) to teelify and exect to ASSIGNEE'S full protection and title in and to the leve The undereigned hereby authorize(s) Pillebury Mediean i	oute any papers for ASS/GNEE, its successor retion hereby transferred.	s, assigns and legal representatives, deemed
	NTORS (and and	DATE SIGNED 21.08.00	WITNESSES Musy that
	Kauhanen		MATTI HUOTARI
2) Por	sh Bully	25.07,200	la-h k
	Ruuska	29.08 Eur,	Turn AMAYA
4) Name: Yuk	Kokko ja Kullile	25.8.2000	Kinnie Lockkingen
Name: Juha 5) Name:	kurkilahti n'Auh	25.08.2000	Minna Jaless
Name: Kimmo	Laakkonen		MINNA SALOMAA

PAT-114 11/07

PATENT REEL: 014356 FRAME: 0735

For Inventions made outside USA executed with or after application

Atty. Dkt. PM

Pillsbury Winthrop LLP P.O. Box 10500 McLean, VA 22102

Name: Kimmo Laakkonen

RECORDED: 08/06/2003

USA Patent Appln. Sole or Joint

M#	Client Ref.

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NU	NPKU	VISIONAL	

ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

	OF NONPROVISIONA	AL APPLICATION	
ln	consideration of the sum of Ten Dollars (\$10.00)) and other good and valu	uable consideration paid to each of
the undersigned, to	wit:		
INSERT	(1) Timo KAUHANEN	(2)	Pekka RUUSKA
NAME(S) OF	(3) Tommi KOKKOLA	(4)	Juha KURKILAHTI
INVENTOR(S)	(5) Kimmo LAAKKONEN		x box if continued on page 2
the receipt and suffi and transfer(s) unto	ciency of which are hereby acknowledged by the	e undersigned who at the	request of, hereby sell(s), assign(s)
INSERT	NOKIA NETWORKS OY		
NAME(S) OF	Keilalahdentie 4		
ASSIGNEE(S)	FIN-02150 Espoo		
& ADDRESS(ES)	Finland		
` '			
(hereinafter designated "As any and all divisions, contin	SSIGNEE") the entire right, title and interest for the United States on nuations, substitutes, and reissues thereof; and all resulting patent	of America as defined in 35 U.S.C. s, known as	100, in the invention and all applications including
TITLE OF	Control of a multicall in a te	lecommunications	system
		Confort Horas Datasta	Etha Haifad Olaha a f Amarica
	for which the undersigned executed an applica-	ation for Letters Patents o	or the United States of America:
$NOTE \rightarrow \rightarrow$	(A) 🔲 even date herewith		
(Complete	(B) X on 3rd July 2000, 25th J	uly 2000, 25th Au	gust 2000 and 29th August 2000.
line A, B and/or C)	(C) in U.S. Appln. No.	filed	
AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legals representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE; AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred. NOTE The undersigned hereby authorize(s) Pillsbury Madison & Sutro LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.			
INVEN	HTORS ∫ g	DATE SIGNED	WITNESSES
1):	mo Vale	21.08.00	Matt thistz
	auhanen	7000000	MATTI HUOTARI
2) Parla		25.07,200	Cerle le
mano.	Ruuska	99 0000	THEN-MATO HANTYLA'
3)	Till Till	29.08-300	June Arma
	Kokkola /	25.8.2000	The second of th
4) Name: Tuha K	urkilahţi		Company part to the major
Name: Juha K 5) Name:	n' Nouh	25.03.2000	Minna Jalles

PAT-114 11/97

PATENT REEL: 014356 FRAME: 0736

MININA GALOMAA