FORM PTO-1619A Expires 06/30/99 OMB 0651-0027			S. Department of Catent and Tradem. PATENT	ark Office
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Name (line 1) Esa	☐ Mark if additional nan	nes of conveying p	Execution Date	rear
Name (line 2) Wahlroos Second Party			Execution Date	
Name (line 1)				ear
Name (line 2)				
Receiving Party	☐ Mark if addi	tional names of re	ceiving parties att	ached
Name (line 1) Nokia Corporation			If document to b	
Name (line 2)			is an assignmer receiving party i domiciled in the	s not
Address (line 1) Keilalahdentie 4			an appointment representative is (Designation ma	of a domestic sattached.
Address (line 2)			separate docum Assignment.)	
Address (line 3) Espoo	Finland	F	IN-02150	
City	State/Country		Zip Code	
Domestic Representative Name and A	aaress Enter for t	he first Receiving F	Party only.	<b>5</b>
Name Charles L. Miller				
Address (line 1) Banner & Witcoff, Ltd.				
Address (line 2) 10 South Wacker Drive				
Address (line 3) Suite 3000				-
Address (line 4) Chicago, Illinois 60606				# # # # # # # # # # # # # # # # # # #
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FORM PTO-1619 Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT				
Correspondent	Name and Address Area Code and Telephone Number	312-715-1000				
Name	Charles L. Miller (Registration No. 43,805)					
Address (line 1)	Banner & Witcoff, Ltd.					
Address (line 2)	Ten South Wacker Drive					
Address (line 3)	Suite 3000					
Address (line 4)	Chicago, Illinois 60606					
Pages Enter the total number of pages of the attached conveyance document including any attachments #						
Application Number(s) or Patent Number(s)   Mark if additional numbers attached.						
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).						
	Application Number(s)	tent Number(s)				
09/939,377						
If this document is being filed together with a <u>new Patent Application</u> , enter the date the patent application was signed by the first named executing inventor.  Month Day Year						
Patent Cooperation Treaty (PCT)						
Enter PCT application number PCT PCT PCT PCT PCT PCT						
	as not been assigned. PCT PCT	PCT				
Number of Properties  Enter the total number of properties involved. #						
Fee Amount	Fee Amount for Properties Listed (37 CFR 3.41):	\$ 40.00				
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	nent by deposit account or if additional fees can be charged to the account.)					
	Deposit Account Number:	# 19-0733				
	Authorization to charge additional fees:	Yes 🛭 No 🗌				
Statement and Signature						
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.						
Charles L. Miller (Re		November 26, 2002				
Name of Person Signing Signature Date						

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Submission Ty  New	ype 08-26-02	Conveyance Type  Assignment		
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Correction of	PTO Error	☐ Merger	Other	
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Conveying Par		Mark if additional	names of conveying parties a Exe Month	ttached ecution Date Day Year
Name (line 1)	Esa		10	16 2001
Name (line 2)	Wahlroos			
Second Party			Exe	ecution Date
Name (line 1)			Month	Day Year
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Name (line 2)				
		☐ Mark if a	additional names of receiving	parties attached
Receiving Party Name (line 1)	Nokia Corporation	☐ Mark if a	If doo	cument to be recorded
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Name (line 1)	Nokia Corporation	☐ Mark if a	If doc is ar rece dom an a	cument to be recorded n assignment and the eiving party is not nicited in the United States appointment of a domestic
Name (line 1)		☐ Mark if a	If doc is ar rece dom an a repri	cument to be recorded n assignment and the siving party is not niciled in the United States
Name (line 1)	Nokia Corporation	☐ Mark if a	If doc is ar rece dom an a repri	cument to be recorded n assignment and the eiving party is not niciled in the United States appointment of a domestic esentative is attached.
Name (line 1)  Name (line 2)  Address (line 1)  Address (line 2)	Nokia Corporation  Keilalahdentie 4		If doc is ar rece dom an a repri	cument to be recorded n assignment and the eliving party is not livicited in the United States appointment of a domestic esentative is attached. Signation must be a arate document from lignment.)
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Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3)  Domestic Reprosentation	Nokia Corporation  Keilalahdentie 4  Espoo  City  resentative Name and Ac	Finland State/Country	If doc is ar rece dom an a repri (Dec sepa Ass/	cument to be recorded n assignment and the siving party is not licited in the United States appointment of a domestic esentative is attached. Signation must be a arrante document from ignment.)
Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3)  Domestic Reprosented R	Nokia Corporation  Keilalahdentie 4  Espoo  City  resentative Name and Ac  Charles L. Miller	Finland State/Country	If doc is ar rece dom an a repri (Dec sepa Ass/	cument to be recorded n assignment and the siving party is not nicided in the United States appointment of a domestic esentative is attached. Signation must be a arrange document from ignment.)
Name (line 1)  Name (line 2)  Address (line 1)  Address (line 3)  Domestic Repi  Name  Address (line 1)	Nokia Corporation  Keilalahdentie 4  Espoo City  resentative Name and Ac Charles L. Miller  Banner & Witcoff, Ltd	Finland State/Country	If doc is ar rece dom an a repri (Dec sepa Ass/	cument to be recorded n assignment and the siving party is not nicided in the United States appointment of a domestic esentative is attached. Signation must be a arrange document from ignment.)
Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3)  Domestic Repi Name Address (line 1) Address (line 2)	Nokia Corporation  Keilalahdentie 4  Espoo  City  resentative Name and Ac  Charles L. Miller  Banner & Witcoff, Ltd  10 S. Wacker Drive	Finland State/Country	If doc is ar rece dom an a repri (Dec sepa Ass/	cument to be recorded n assignment and the siving party is not nicided in the United States appointment of a domestic esentative is attached. Signation must be a arrange document from ignment.)

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Correspondent	Name and Address Area Code and Telephone Number	312-715-1000				
Name	Charles L. Miller					
Address (line 1)	Banner & Witcoff, Ltd.					
Address (line 2)	10 S. Wacker Drive					
Address (line 3)	Suite 3000					
Address (line 4)	Chicago, Illinois 60606					
Pages	Enter the total number of pages of the attached conveyance of including any attachments	document #				
		onal numbers attached.				
	he Patent Application Number or the Patent Number (DO NOT ENTER BOTH	· · · · · · · · · · · · · · · · · · ·				
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.						
Patent Cooperation Treaty (PCT)						
Enter PCT application number PCT PCT PCT						
	U.S. Application as not been assigned. PCT PCT					
Number	as not been assigned. PCT PCT	PCT				
Number of Properties  Enter the total number of properties involved. # 1						
Fee Amount	Fee Amount for Properties Listed (37 CFR 3.41):	\$ 40.00				
Method of Payment: Enclosed ☐ Deposit Account ☒ Deposit Account						
•	nent by deposit account or if additional fees can be charged to the account.)					
	Deposit Account Number:	# 19-0733				
	Authorization to charge additional fees:	Yes 🛛 No 🗌				
Statement and Signature  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.						
Charles L. Miller	- Ventario	August 26, 2002				
Name of Person Signing Signature Date						

## **ASSIGNMENT**

WHEREAS, I, Esa Wahlroos, residing at Itäinen Pitkäkatu 74A4 20810, Turku, Finland (ASSIGNOR), am the inventor of certain inventions and improvements described in a U.S. patent application identified by Attorney Docket No. NC 28522 and having the title

which application was [one of the following]

executed on Ochober | b, 200 | [Date or dates] or

filed on August 24, 2001 and assigned application serial number 09/939,377;

and WHEREAS

Nokia Corporation Keilalahdentie 4 FIN-01250 ESPOO FINLAND

ASSIGNEE, desires to acquire the entire right, title and interest in and to the said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

I hereby assign, to the above named ASSIGNEE, its successors, assigns and legal representatives (NOMINEES) the entire right, title and interest in and to said application, inventions and improvements throughout the world and to any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And I covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement or do anything in conflict herewith;

And I further covenant and agree that I will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and I agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of the ASSIGNEE or its NOMINEES;

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And I authorize the ASSIGNEE or its NOMINEES to file in my name or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and I authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said ASSIGNEE or its NOMINEES any and all LETTERS PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And I hereby grant my attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: 16,10,9001 Inventor:

Esa Wahlroos

an Warrios

Note: No legalization or other witness required.

LAW OFFICES
BANNER & WITCOFF, LTD.
1001 G STREET, N.W.
WASHINGTON, D.C. 20001-4597
(202) 508-9100

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