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Please record the attached document

3.4.03

_	1 10000 100010 1110 1110	
	1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
	1.) Jani MANTYJARVI	Name: Nokia Corporation
	2.) Jari PALONIEMI	
	3.) Sami RONKAINEN	ŕ
	4.) Tatu KAUPPINEN	
	5.) Miika SILFVERBERG	
	Additional name(s) of conveying party(ies) attached? Yes No	Address: Keilalahdentie 4
	3. Nature of Conveyance:	City: FIN-02150 Espoo
	☐ Assignment ☐ Merger	State: ZIP Code:
	Security Agreement Change of Name	State. Zir code.
	Other:	Country: Finland
	Execution Date: 1,2,3,5 signed on January 2, 2002, 4	Additional name(s) & address(es) attached? 🔲 Yes 🔀 No
	signed on January 7, 2002	
	4. Application number(s) or patent number(s):	
	If this document is being filed together with a new application, the	
	A. Patent Application No.(s):	B. Patent No.(s):
	10/029,904	
	A 131611	ched? Yes No
		6. Total number of applications
	5. Name and address of party to whom correspondence concerning document should be mailed:	and/or patents involved: 1
	concerning document should be maned.	
	Names Cl A Con	7. Total fee (37 CFR 3.41):\$40.00
	Name: Clarence A. Green	M Emplessed
	Address: Perman & Green, LLP	Enclosed
	425 Post Road	Charge deposit account
	G: 7: 7.1	Please charge any fee deficiency to deposit account
	City: Fairfield	
	C4-4 OT 7ID C-4 07400 (000	9 Devoit account numbers 16 1250
	State: CT ZIP Code: 06430-6232	8. Deposit account number: <u>16-1350</u>
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. 0.301	10100 00	
		β
	9. Statement And Signature:	
	To the best of my knowledge and belief, the foreg	going information strue and correct and, the attached
		t or a true/copy of the original document.
	Clarana A Gran / Cheece	February 22, 2002
	Clarence A. Green	Signature Petituary 22, 2002 Date
	Name of Person Signing	Date Date
	Customer No.: 2512	Total number of pages including cover sheet(s): 11.
		Page 1 of 1.
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PATENT

REEL: 012677 FRAME: 0450

Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)				Docket No.:	
This is an Assign	ment of the following i	rights, title a	nd interest: (check all the	at apply):	
\boxtimes	United States of Ameri	ica rights, tit	te and interest in the invo	ention	
	Foreign rights, title an	d interest in	the invention		
	United States Patent A	pplication S	erial No.:		
	Date of Execu	ition:	Date of Filin	ng:	
	United States Provision	nal Patent A	pplication Serial No.:		
	United States Patent N	/o(s):			
	International (PCT) P	atent Applic	ation Serial No.:		
	Other (specify):				
		<u>TITLE</u>	OF THE INVENTION	<u>v</u>	
Method for co	ntrolling a terminal o	display and	a terminal		
INVENTORS ((ASSIGNORS)				
	NAME		ADDRESS		
Jani MÄNTYJÄ	RVI	ANKE	CURITIE 5B20	02320ESPOO FINIANO	
Javi PALONIEMI		Yliki	imingintie 169, I	FIN-90900 Kiiminki, Finland	
Sami RONKAIN	VEN	Puu1i	nnankatu 10 A 12,	FIN-90570 Oulu, Finland	
Tatu KAUPPIN	EN	Calon	iuksenkatu 10 D 6	55, FIN-00100 Helsinki, Finland	
Miika SILFVER	RBERG	0tava	ntie 7 D 40, FIN-	-00200 Helsinki, Finland	
ASSIGNEE					
NAME				ADDRESS	
NOKIA CORPORATION		Keilalahdentie 4 FIN-02150 Espoo Finland			

Page 1

Assignment of Rights, Title and Interest in Invention	n
(Multiple inventors; single assignee)	

Docket No.:

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to added page(s))

NAME	SIGNATURE & DATE
Jani Mäntyjärvi	7-11- 2.7.2002
Jari Paloniemi	/
Sami Ronkainen	
Tatu Kauppinen	·
Miika Silfverberg	

100074/NC 29914

Assignment of Rights, Ti (Multiple invent			Docket No.:
This is an Assignment of the follows	ing rights, title a	nd interest: (check all ti	hat apply):
☐ United States of A	merica rights, tit	le and interest in the in	vention
Foreign rights, titl	le and interest in	the invention	
United States Patent Application Serial No.:			
Date of E	xecution:	Date of Fil	ling:
United States Prov	risional Patent A _l	pplication Serial No.:	
United States Pate	ent No(s):		
International (PC)	T) Patent Applica	ation Serial No.:	
Other (specify):			
	<u>TITLE (</u>	OF THE INVENTIO	<u>N</u>
Method for controlling a termin	al display and	a terminal	
INVENTORS (ASSIGNORS)			
NAME			ADDRESS
Jani MÄNTYJÄRVI	Ankkur	itie 5 B 20, FI	N-02320 Espoo, Finland
Jari PALONIEMI	Ylik	ilmingiate 169	, 90900 KIININKI, FINLAND
Sami RONKAINEN			FIN-90570 Oulu, Finland
Tatu KAUPPINEN	Caloni	ukoonkatu 10 D	65 FIN 00100 Heleinki Birli
Miika SILFVERBERG			65, FIN-00100 Helsinki, Finland
	Otavai	101e / D 40, FIN	-00200 Helsinki, Finland
AGGICNIEE			
ASSIGNEE NAME			ADDRESS
NOKIA CORPORATION		Keilalahdentie 4 FIN-02150 Espoo Finland	

Page 1

Assignment of Rights, Title and Interest in Invention	Docket No.:
(Multiple inventors; single assignee)	

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

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Inventors' Signatures (if Notarization is desired, do not sign here and proceed to added page(s))

NAME	SIGNATURE & DATE
Jani Mäntyjärvi	4 - 0
Jari Paloniemi	Ai for 02 Jan 2002
Sami Ronkainen	
Tatu Kauppinen	
Miika Silfverberg	
Check here if additional pages are added for Notarization	n (Number of pages added) Page 2

100074/NC29914

Assignn	nent of Rights, Title (Multiple inventor			Docket No.:
This is an Assi	gnment of the following	rights, title d	and interest: (check all th	at apply):
\boxtimes	United States of Ame	erica rights, ti	itle and interest in the inv	vention
	Foreign rights, title a			
	United States Patent	Application S	Serial No.:	
	Date of Exec	cution:	Date of Fili	ing:
	United States Provisi	onal Patent A	Application Serial No.:	
	United States Patent	No(s):		
	International (PCT)	Patent Applic	cation Serial No.:	
	Other (specify):			
		<u>TITLE</u>	OF THE INVENTION	<u>v</u>
Method for c	ontrolling a terminal	display and	d a terminal	
INVENTORS	(ASSIGNORS) NAME			ADDREGG
Jani MÄNTYJ				ADDRESS
Jari PALONII	7MI	1		-02320 Espoo, Finland
		Yliki	imingintie 169,	FIN-90900 Kiiminki, Finland
Sami RONKA	INEN	Puu	linnan Kata 10 Alz	2, 90570 anly, FIVE AND
Tatu KAUPPI	NEN			65, FIN-00100 Helsinki, Finland
Miika SILFVE	CRBERG			
		Utava	incle / D 40, FIN-	-00200 Helsinki, Finland
ASSIGNEE				
ABBIUNEE	NAME			ADDRESS
NOKIA CORPORATION			Keilalahdentie 4	
		FIN-02150 Espoo Finland		

Page 1

Assignment of Rights, Title and Interest in Invention	Docket No.:
(Multiple inventors; single assignee)	

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NAME	SIGNATURE & DATE
Jani Mäntyjärvi	
Jari Paloniemi	
Sami Ronkainen	Jam 6 0201.2002
Tatu Kauppinen	
Miika Silfverberg	
Check here if additional pages are added for Notarizati	on (Number of pages added) Page 2

_	Rights, Title and Inter- ple inventors; single as		Docket No.:
This is an Assignment	of the following rights, title a	and interest: (check all that ap	oply):
⊠ Unite	d States of America rights, ti	tle and interest in the invention	on
☐ Forei	gn rights, title and interest in	the invention	
United States Patent Application Serial No.:			
	Date of Execution:	Date of Filing:	
☐ Unite	d States Provisional Patent A	Application Serial No.:	
Unite	d States Patent No(s):		
☐ Interi	national (PCT) Patent Applic	cation Serial No.:	
☐ Other	(specify):		
	<u>TITLE</u>	OF THE INVENTION	
Method for controlli	ng a terminal display and	l a terminal	
INVENTORS (ASSI			
NAME Jani MÄNTYJÄRVI		ADD	RESS
	Ankkı	ritie 5 B 20, FIN-C	2320 Espoo, Finland
Jari PALONIEMI	Ylik	iimingintie 169, FIN	7-90900 Kiiminki, Finland
Sami RONKAINEN	Puu1:	innankatu 10 A 12, F	TIN-90570 Oulu, Finland
Tatu KAUPPINEN	CL	TAYUSZYUJUO	100 ES 00 100 HKI
Miika SILFVERBERO	,		
	Otava	antie 7 D 40, FIN-00	200 Helsinki, Finland
ASSIGNEE	AME		ADDRESS
NOKIA CORPORAT		Keilalahdentie 4	
NORIA CORPORATION		F1N-02150 Espoo Finland	

Page 1

Assignment of Rights, Title and Interest in Invention	Do
(Multiple inventors; single assignee)	

Docket No.:

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NAME	SIGNATURE & DATE
Jani Mäntyjärvi	
Jari Paloniemi	
Sami Ronkainen	
Tatu Kauppinen	11. On 7.1.200x
Miika Silfverberg	(
	I
Check here if additional pages are added for N	Notarization (Number of pages added) Page 2

	ent of Rights, Title an (Multiple inventors; si			Docket No.:	
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	Foreign rights, title and interest in the invention				
	United States Patent Application Serial No.:				
	Date of Execution	n:	Date of File	ing:	
	United States Provisional Patent Application Serial No.:				
	United States Patent No(s):				
	International (PCT) Patent Application Serial No.:				
	Other (specify):				
		TITLE	OF THE INVENTION	<u>N</u>	
Method for co	ontrolling a terminal dis	play and	a terminal		
· · · · · · · · · · · · · · · · · · ·					
INVENTORS	(ASSIGNORS)				
Jani MÄNTYJ	NAME ADDRESS		ADDRESS		
		Ankku	ritie 5 B 20, FI	N-02320 Espoo, Finland	
Jari PALONIE	EMI	Yliki	imingintie 169,	FIN-90900 Kiiminki, Finland	
Sami RONKA	INEN	T		, FIN-90570 Oulu, Finland	
Tatu KAUPPI	NEN	Caloniuksenkatu 10 D 65, FIN-00100 Helsinki, Finland			
Miika SILFVE	PREDCI	+			
WITH SILIVE			TAVAUTIC 7D	40, ODEOO HELSINKI	
		 			
		<u> </u>			
ASSIGNEE					
	NAME			ADDRESS	
NOKIA CORPORATION		Keilalahdentie 4 FIN-02150 Espoo Finland			

Page 1

Assignment of Rights, Title and Interest in Invention	Docket No.:
(Multiple inventors; single assignee)	

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Inventors' Signatures (if Notarization is desired, do not sign here and proceed to added page(s))

RECORDED: 03/04/2002

NAME	SIGNATURE & DATE
Jani Mäntyjärvi	
Jari Paloniemi	
Sami Ronkainen	
Tatu Kauppinen	
Miika Silfverberg	Mulo 5 ni 21,2002
Check here if additional pages are added for No	otarization (Number of pages added) Page 2