



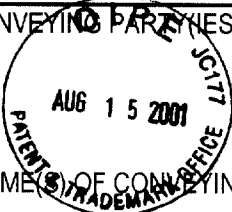
LY

TO THE ASSISTANT COMMISSIONER
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

101869285

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

- 1. Mikko RINNE
- 2. Kalle AHMAVAARA
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.



8-15-01

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Nokia Networks Oy

ADDRESS: Keilalahdentie 4, FIN-02150 Espoo, FINLAND

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ASSIGNMENT OF WHOLE PART INTEREST
- ORIGINAL FACSIMILE/PHOTOCOPY
- CHANGE OF NAME VERIFIED TRANSLATION
- SECURITY MERGER OTHER:

EXEC. DATE: 1) July 4, 2001; 2) July 30, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
09/882,299	281474	RINNE			

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard
McLean, VA 22102

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 281474	2980664US/PG/kop
MATTER NO.	CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
UNDER ORDER NO	60258	281474
dup. sheet not required	CLIENT NO.	MATTER NO.

9.

Signature

Attorney: Christine H. McCarthy

Reg. No. 41844

Atty/Sec: CHM/JRH

TEL: (703) 905-2143

Date: August 15, 2001

FAX: (703) 905-2500

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

3

FILE WITH PTO RETURN RECEIPT (PAT-103A)

08/16/2001 HDEMESS1 00000016 09882299

03 FC:581

40.00 00

Please return signed/recorded to:

Pillsbury Winthrop LLP
Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 20005-3918

USA Patent Appln.
Sole or Joint

For Inventions made outside USA
executed with or after application

Atty. Dkt. P

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Mikko RINNE	(2) Kalle AHMAVAARA
	(3)	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	NOKIA NETWORKS OY Keilalahdentie 4 FIN-02150 Espoo Finland
--	---

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION	Signalling method and telecommunication system
-----------------------	--

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
 (Complete) (B) on _____
 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 legal 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 Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS	DATE SIGNED	WITNESSES
1): Name: Mikko Rinne	4 th July 2001	Anu Virtanen
2): Name: Kalle Ahmavaara		
3): Name:		
4) Name:		
Name:		
5) Name:		
Name:		

Please return signed/recorded to:

Pillsbury Winthrop LLP
Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 20005-3918

USA Patent Appln.
Sole or Joint

For Inventions made outside USA
executed with or after application

Atty. Dkt. P _____
M# _____ Client Ref. _____

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OF NONPROVISIONAL APPLICATION**

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	(3)	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

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INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

NOKIA NETWORKS OY
Keilalahdentie 4
FIN-02150 Espoo
Finland

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

Signalling method and telecommunication system

for which the undersigned executed an application for Letters Patents of the United States of America:

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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 Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS	DATE SIGNED	WITNESSES
1): Name: Mikko Rinne		
2): Name: Kalle Ahmavaara	30/07/2001	KATI AHVONEN
3): Name: _____	_____	_____
4) Name: _____	_____	_____
Name: _____	_____	_____
5) Name: _____	_____	_____
Name: _____	_____	_____