



RECORDATION  
PATENT APPLICATION

102272870

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:  
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

Corrective

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

1. Ville RUUTU

2. Timo M. RANTALAINEN

3.

4.

5.

6.

7.

8.

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) October 29, 2000; 2) October 3, 2000

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 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
10/195,079	292924	RUUTU			

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 DUE: (Code 581)  
ABOVE TOTAL x \$40 = \$40

CHARGE FEE

5.5 ATTY DKT:

P 292924 T298019US  
MATTER NO. CLIENT REF.

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT  
NUMBER: 03-3975

UNDER ORDER NO 60256 292924  
dup. sheet not required CLIENT NO. MATTER NO.

9. 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.

Signature

Attorney: Christine H. McCarthy

Reg. No. 41844

Atty/Sec: CHM/jrh

TEL: (703) 905-2143

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

2

Date: October 29, 2002

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

TO THE ASSISTANT COMMISSIONER (SIR: PLEASE RECORD THE ATTACHED DOCUMENTS OR COPY THEREOF. 102170023

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):  
1. Ville RUUTU  
3.  
5. 7-15-02  
7.  
2. Timo M. RANTALAINWEN  
4.  
6.  
8.

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) October 29, 2000; 2) October 3, 2000

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 10195079

INVENTOR: 292924 RUUTU

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 DUE: (Code 581) ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT. P 292924	T298019US/KIN/ERR/CON	8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT NUMBER: 03-3975
MATTER NO.	CLIENT REF.	dup. sheet not required
		60256 292924
		CLIENT NO. MATTER NO.

9. 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.

Signature <i>Christine H. McCarthy</i>	10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	2
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Attorney: Christine H. McCarthy  
 Reg. No. 41844  
 Atty/Sec: CHM/jrh  
 Date: July 15, 2002  
 TEL: (703) 905-2143  
 FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

07/25/2002 DBYRME 00000102 033975 10195079  
 01 FC:581 40.00 CH

THIS PAGE MUST BE NON-MICROFILMED

CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE  
(ASSIGNOR-), FILED ON 7-15-02 RECORDED ON  
REEL 013114 FRAME 0274 ASSIGNOR HEREBY CONFIRMS THE  
(ASSIGNMENT OF ASSIGNOR'S INTEREST)   
~~CONVEYANCE~~

1278015

Please return signed/recorded to:

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

USA Patent Appl.  
Sole or Joint

For Inventions made outside USA  
executed with or after application

Atty. Dkt.	PM	M#	Client Ref.
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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) Ville Ruutu	(2)
	(3) Timo M. Rantalainen	(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 Keuhalahdentie 4 FIN-02150 Espoo, Finland
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(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: A calculation method in a radio system for calculating the geometrical time difference between transmitters

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

NOTE -> -> (A)  even date herewith  
(B)  on \_\_\_\_\_  
line A, B and/or C) (C)  in U.S. Appl. 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 Madison & Sutro LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS	DATE SIGNED	WITNESSES
1): <u>                    Ville Ruutu                    </u>	<u>                    25.09.2000                    </u>	<u>                    Ville-Matti Jesteri                    </u> (Ville-Matti Jesteri)
Name: <u>                    Timo Rantalainen                    </u>	<u>                    3.10.2000                    </u>	<u>                    Mauri Antti Siro                    </u> (Mauri Antti Siro)
2) _____	_____	_____
Name: _____	_____	_____
3) _____	_____	_____
Name: _____	_____	_____
4) Name: _____	_____	_____
Name: _____	_____	_____
5) Name: _____	_____	_____
Name: _____	_____	_____