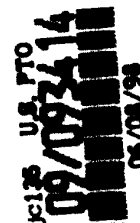


06-17-1998

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TO THE ASSISTANT COMMISSIONER 100740722 original documents or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

- 1. Deirdre O'Shea
- 2. Ismail Lakkis
- 3. Saeid Safavi
- 4. Masood K. Tayebi

2. Name and address of receiving party(ies):

Name: Wireless Facilities, Inc.
 Internal Address:
 Street Address: 9725 Scranton Road, Suite 140
 City: San Diego State: CA ZIP: 92121

Additional name(s) of conveying party(ies) attached?
 () Yes (X) No

Additional name(s) of receiving party(ies) attached?
 () Yes (X) No

6-8-98

3. Nature of conveyance:

- (X) Assignment
- () Merger
- () Security Agreement
- () Change of Name
- () Other:

4. Application number(s) or Patent number(s):

- (X) Application(s) filed herewith
 Execution Date(s): June 5, 1998
- () Patent Application No.:
 Filing Date:
- () Patent No.:
 Issue Date:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above)

- 1. June 5, 1998;
- 2. June 5, 1998;
- 3. June 5, 1998;
- 4. June 5, 1998.

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Ray Salenieks, Patent Agent
 KNOBBE, MARTENS, OLSON & BEAR, LLP
 Customer No. 20,995
 Internal Address: Sixteenth Floor
 Street Address: 620 Newport Center Drive
 City: Newport Beach State: CA ZIP: 92660
 Attorney's Docket No.: 37,924

7. Total fee (37 CFR 3.41): \$40.00

- (X) Enclosed
- (X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: One (1)

9. 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.

Ray Salenieks
 Name of Person Signing

Ray Salenieks
 Signature

6/8/98
 Date

37,924
 Registration No.

Total number of pages including cover sheet, attachments and document: Four (4)

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents
 Box Assignments
 Washington, D.C. 20231

KNOBBE, MARTENS, OLSON & BEAR, LLP
 620 NEWPORT CENTER DR 16TH FLOOR NEWPORT BEACH, CA 92660
 (949) 760-0404 FAX (949) 760-9502

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06/16/1998 TT0011 01 FC:581

ASSIGNMENT

WHEREAS, we, Deirdre O'Shea, a Citizen of Ireland citizen, residing at 11173 Kelowna Road #14, San Diego, California 92126, Ismail Lakkis, a Citizen of Lebanon, residing at 11173 Kelowna Road #14, San Diego, California 92126, Saeid Safavi, a Citizen of Iran, residing at 9908 Kiki Court #825, San Diego, California 92129, and Masood K. Tayebi, a Citizen of the United Kingdom, residing at 5240 Fiore Terrace #J403, San Diego, California 92122, have invented certain new and useful improvements in the invention entitled **JOINT MAXIMUM LIKELIHOOD FRAME AND TIMING ESTIMATION FOR A DIGITAL RECEIVER** for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, Wireless Facilities, Inc. (hereinafter "ASSIGNEE"), a New York Corporation, with its principal place of business at 9725 Scranton Road, Suite 140, San Diego, California 92121, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 5th day of June 1998.

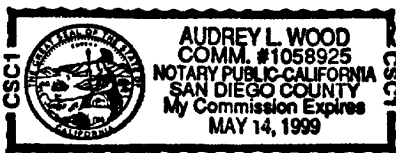

Deirdre O'Shea


STATE OF California)
COUNTY OF San Diego) ss.

On 5th June, before me, Audrey L. Wood, personally appeared Deirdre O'Shea personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]




Signature

(continued on page 2)

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 5th day of June 1998.

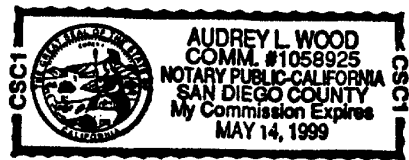
Ismail Lakkis
Ismail Lakkis

STATE OF California)
COUNTY OF San Diego) ss.

On June 5th, before me, Audrey L. Wood, personally appeared Ismail Lakkis personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Audrey L. Wood
Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 5th day of June 1998.

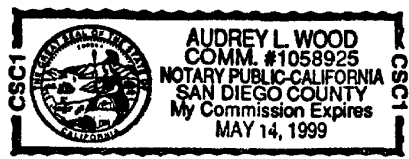
Saeid Safavi
Saeid Safavi

STATE OF California)
COUNTY OF San Diego) ss.

On June 5th, before me, Audrey L. Wood, personally appeared Saeid Safavi personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



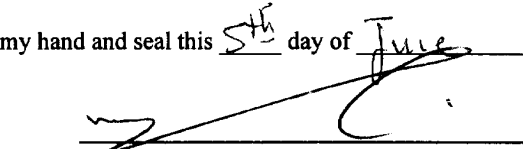
Audrey L. Wood
Signature

(continued on page 3)

Application No.: Unknown
Filing Date: Herewith

PATENT
Client Code: WIREFAC.003A
Page 3

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 5th day of June 1998.



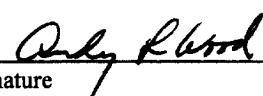
Masood K. Tayebi

STATE OF California)
COUNTY OF San Diego) ss.

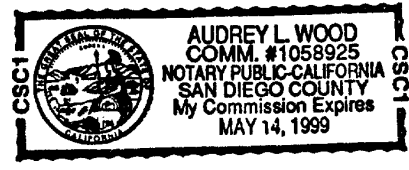
On June 5th, before me, Audrey L Wood, personally appeared Masood K. Tayebi personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Signature



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