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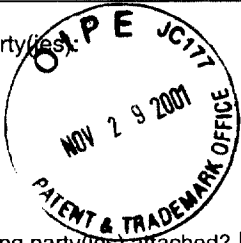


Tab settings

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To the Honorable Commissioner of Patents and Trademarks. Please return the attached original documents or copy thereof.

112901



1. Name of conveying party(ies): Nobuyasu Nakajima Yoshihiro Ohba

2. Name and address of receiving party(ies) Name: Toshiba America Research Inc. (TARI) Internal Address: 445 South Street, Morristown, NJ 07960-6438

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: November 19, 2001

Street Address: same address as above 445 South Street City: Morristown State: NJ Zip: 07960-6438 Additional Name(s) & address(es) attached? [] Yes [X] No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution data of the application is: A. Patent Application No.(s) 09/946,795, filed 09/06/01

B. Patent No.(s) Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Banner & Witcoff, Ltd. Internal Address: 1001 G Street, N.W. Eleventh Floor, Washington, D.C. 20001-4597 Street Address: Banner & Witcoff, Ltd. 1001 G Street, N.W., Eleventh Floor City: Washington State: DC Zip: 20001-4597

6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41) \$ 40.00 [] Enclosed [X] Authorized to be charged to deposit account 8. Deposit account number: 19-0733 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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. David S. Lee/Reg. No. 38,222 Name of Person Signing

Signature: [Signature] Date: November 29, 2001

004900.00003

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

004900.00003

Whereas, I/We, Nobuyasu Nakajima and Yoshihiro Ohba of Wayne, New Jersey, and Cedar Knolls, New Jersey, hereafter referred to as applicants, have invented certain new and useful improvements in Fraud Detection Techniques for Wireless Network Operators

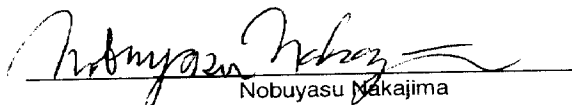
for which an application for a United States Patent was filed on September 6, 2001,
Application Number 09/946,795.

for which an application for a United States Patent was executed on _____, and

Whereas, Toshiba America Research Inc. (TARI) of Morristown, New Jersey herein referred to "assignee" whose mailing address is 445 South Street , Morristown, NJ 07960-6438 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I/We hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 19th day of Nov., 2001,
at _____.


Nobuyasu Nakajima

State of _____) SS:
County of _____)
Before me personally appeared said _____
and acknowledged the foregoing instrument to be his free act and deed this _____
day of _____, 2001.

(Notary Public)

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below*.

* Total of _____ forms are submitted.

Executed this 19 day of Nov, 2001,

at _____.



Yoshihiro Ohba

State of _____) SS:
County of _____)

Before me personally appeared said _____
and acknowledged the foregoing instrument to be his free act and deed this _____
day of _____, 2001.

Seal

(Notary Public)