FORM PTO-1595 1-31-92

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Docket No.: VCU98-15

To the Honorable Commissioner of Patents ατια τεαυστατκε. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):     Doraiswamy Sundar  Additional names of conveying party(ies) attached?  □ yes ☒ no  3. Nature of Conveyance  ☑ Assignment □ Merger □ Security Agreement □ Change of Name □ Other	2. Name and address of receiving party(ies):  Name: Virginia Commonwealth Internal Address:  Street Address: Box 980519, MCV State. City: Richmond, Virginia Country: United States of America.  Additional name(s) & address(es) attached?  yes  no
Execution Date: April 18, 1999  4. Application number(s) or patent number(s): Title: USAGE PATTERN BASED USER AUTHENTICATOR	
If this document is being filed together with a new application, the	execution date of the application is
A. Patent Application No(s). 09/266735 filed March 12, 1999	B. Patent No.
Additional numbers atta	pched? □ Yes ☑ No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:1
Joni D. Stutman Whitham, Curtis & Whitham Reston International Center 11800 Sunrise Valley Drive Suite 900 Reston, Virginia 20191	7. Total fee (37 CFR 3.41):  ■ Enclosed  ☑ Authorized to be charged to deposit account  □ Total fee due  ■ Any deficiencies in the enclosed fees  8. Deposit account number:  23-1951 (WHITHAM, CURTIS & WHITHAM)
9. Statement and signature  To the best of my knowledge and belief, the foregoing information is a document.  Joni D. Stutman Name of Person Signing  Signature	true and correct and any attached copy is a true copy of the original  April 28, 1999  Date  Total number of pages including cover sheet: 3

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**PATENT REEL: 9925 FRAME: 0289**  Docket No.: VCU98-15

## **ASSIGNMENT**

WHEREAS, We, David Primeaux, Doraiswamy Sundar and Willard L. Robinson, Jr., have invented certain new and useful improvements in an invention entitled: USAGE PATTERN BASED USER AUTHENTICATOR, for which a United States Letters Patent Application was executed on even date herewith, and

WHEREAS, Virginia Commonwealth University, a corporate instrumentality of the Commonwealth of Virginia, hereinafter referred to as UNIVERSITY, is desirous of acquiring certain rights thereunder; and

WHEREAS, the invention was made using facilities and resources controlled by the UNIVERSITY; and

WHEREAS, Virginia Commonwealth University's Intellectual Properties Policy, which applies to me as an employee of Virginia commonwealth University pursuant to Section 23-4.3.B of the CODE OF VIRGINIA, provides among other things, that inventions made using facilities and resources controlled by the UNIVERSITY become the property of the UNIVERSITY and that UNIVERSITY employees-inventors are obligated to assign their rights in the invention and any patent application(s) and any patent(s) issued thereon to the UNIVERSITY:

NOW, THEREFORE, for one dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, I agree to and do hereby sell, assign and transfer unto said UNIVERSITY the entire right, title, and interest in and throughout the United States of American (including its possessions and dependencies) and all countries foreign thereto, in and to said invention (whether patentable or not), of any country, which have been or may be granted on said invention or any part thereof, or any divisional, substitute, continuation-in-whole- or in part, renewal, reissue or other patent application based thereon, and based upon said invention, together with the right of said UNIVERSITY to apply for such patent in its own name in all countries of the world where such is permissible by law, and the right to claim the benefit of the priority right provided by the International convention of 1883, as amended to date, and any such priority right;

TO BE HELD AND ENJOYED BY said UNIVERSITY, its successors and assigns, to the full ends of the respective terms for which said patents or any of them have been or may be granted as fully and entirely as the same would have been held and enjoyed by me had no sale and assignment of said interest been made;

AND I do hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States Patents which may be granted upon said invention or any part thereof, to said UNIVERSITY;

AND I hereby agree for myself, and for my heirs, executors and administrators, to execute without further consideration any further lawful Docket No.: VCU98-15

documents and any further assurances, and any divisional, continuation-inwhole or in part, substitute, renewal, reissue, or other applications for patents for any country that might be deemed necessary by said assignee fully to secure to said assignee its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND in addition I agree that any and all royalties, rents, payments or any receipts from the sale, assignment, transfer, licensing or use of said invention, whether patented or not, which are received by the said UNIVERSITY shall be the property of the UNIVERSITY with the understanding that I will receive a percentage of said royalties, rents, payments, or receipts pursuant to and in accordance with the Virginia Commonwealth University Intellectual Properties Policy as adopted May 20, 1988, or as amended or superseded thereafter:

AND I do hereby covenant for myself and my legal representatives and agree with said UNIVERSITY, its successors and assigns that I have granted no right or license to make, use or sell said invention to anyone except said UNIVERSITY, that prior to the execution of this deed my right, title and interest in sazid invention has not been otherwise encumbered, and that I have not executed and will not execute any instrument in conflict herewith.

Executed this less day of Arth, 1999.
- Andrew
State of Virginia )  City of Herrico ) ss:  Subscribed and sworn to before me this day of March  Notary Public
My Commission expires: 7-78-00

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