

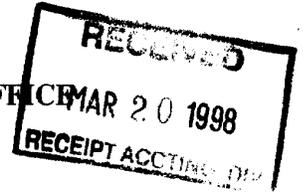
04-06-1998



100673678

IN THE

TRADEMARK OFFICE



In re Patent Application of:

APPLICANT(s): W. A. Aiello, et al

SERIAL NO.: 09/004,191

FILED: 3 January 1998

TITLE: Method and Apparatus for Generating Secure Hash Functions

HON. ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

RECORDING ASSIGNMENT

Please record the enclosed original **Assignment** transferring to Assignee **all right, title, and interest** in the above-identified patent **Application** which was executed by Assignor(s) on the same date as the Assignment and which is being filed herewith.

Assignor(s)	Assignment executed:
William A. Aiello	February 9, 1998
Ramarathnam Venkatesan	January 28, 1998

Assignee:
Bell Communications Research, Inc.
445 South Street
Morristown, New Jersey 07960

The Assignment document, this cover letter (in duplicate), and any attachments comprise a total of two (2) pages. Please charge to **Deposit Account 02-1820** the required fee of \$40 for recording this assignment of the One (1) Patent Application identified above. In the event any additional fee is required, please charge such fee to that Deposit Account.

The recorded Assignment and related correspondence should be directed to:

Joseph Giordano, Esq.
Bell Communications Research, Inc.
445 South Street - Room 1G-112R
Morristown, NJ 07960

To the best of my knowledge and belief, the foregoing information is true and correct.

Respectfully,

Joseph Giordano

Attorney of Record
Reg. No. 35,158

Date: March 17, 1998
Bell Communications Research, Inc.
445 South Street, Morristown, NJ 07960

09004191
03/21/1998 DEBITES 00000106 BMM:021020
40.00 CH
FC:1581

ASSIGNMENT

KNOW, ALL MEN, BY THESE PRESENTS THAT

WHEREAS, I/we, **William A. Aiello and Ramarathnam Venkatesan** have invented certain useful improvements in **A Method and Apparatus for Generating Secure Hash Functions** described in an application for Letters Patent executed by me/us of even date herewith and about to be filed in the United States Patent and Trademark Office; and

WHEREAS, **Bell Communications Research, Inc.**, a corporation of the State of Delaware, having a place of business at 445 South Street, Morristown, NJ 07960, United States of America, for the benefit of itself and its successors and assigns, all inclusively hereinafter referred to as "Assignee", is desirous of acquiring all rights, title, and interest in and to said application, all inventions disclosed therein, and any and all Letters Patent of the United States of America, and of all other countries, which may be granted for said inventions, or any of them; and

WHEREAS, I/we hereby represent and warrant to Assignee that I/we have, with respect to third parties, full and unencumbered rights, title, and interest in and to said application, inventions, and Letters Patent, and further that I/we may freely assign the same;

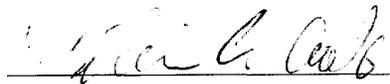
NOW, THEREFORE, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/we do hereby sell, assign, and transfer to Assignee all my/our rights, title, and interest in and to said application, including all priority rights arising therefrom, all inventions disclosed therein, all patent applications filed pursuant to 35 USC 111(a) relating thereto, and all divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and of all other countries, and all reissues thereof, which may be granted for said inventions, or any of them, together with the right to make application for any and all of the same;

TO HAVE, HOLD, AND ENJOY said inventions, said application and rights, and said Letters Patent arising therefrom, or any of them, to its own use and behoof to the full end of the term or terms for which said applications may endure and for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment not been made;

AND I/WE HEREBY authorize and request the Commissioner of Patents and Trademarks to issue or reissue such Letters Patent as may be granted claiming priority to said application, on any division or continuation thereof, or for said inventions, or any of them, to Assignee in accordance with the terms of this instrument;

AND I/WE HEREBY agree that I/we shall, at the request of Assignee and without demand of further consideration, but at no expense to me/us, do all lawful and just acts, including execution and acknowledgment of instruments, furnishing information, and giving testimony, particularly in the event of interference or litigation, indicated by counsel for Assignee to be necessary for obtaining, maintaining, and perfecting the property rights, or any of them, hereby assigned.

IN WITNESS WHEREOF, I/we hereunto set my/our hand and seal on the day and year indicated.



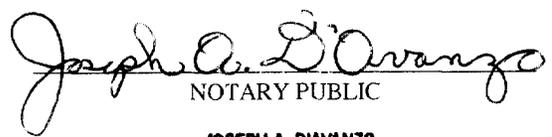
William A. Aiello

Date: 2/9/98

County of MORRIS)
State of New Jersey) SS:

Then personally appeared before me on the indicated date(s) the above-named **William A. Aiello**, to me personally known and known by me to be the person(s) described in and who executed the foregoing instrument, and acknowledged the same, before me, to be his/her/their own free act and deed.

2/9/98
Date


NOTARY PUBLIC

JOSEPH A. D'AVANZO
A Notary Public of New Jersey
My Commission Expires 3/25/01

Ramarathnam Venkatesan

Date: 28 Jan 98

Ramarathnam Venkatesan

County of King)
State of Washington) SS:

Then personally appeared before me on the indicated date(s) the above-named **Ramarathnam Venkatesan** to me personally known and known by me to be the person(s) described in and who executed the foregoing instrument, and acknowledged the same, before me, to be his/her/their own free act and deed.

01/28/98
Date



Melinda E. Fletcher
NOTARY PUBLIC