

U.S. PTO
12/592687
11/30/2009

Form PTO-1595
(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

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To the Honorable Commissioner

12-09-2009



103582984

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

ched original documents or copy thereof.

1. Name of conveying party(ies):

Mohiuddin Ahmed
Son Dao
Noparut Vanitchanan

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other HRL123-DIV

Execution Date: 11/08/2004; 11/03/2004; 10/30/2004

2. Name and address of receiving party(ies)

Name: HRL Laboratories, LLC

Internal Address: _____

Street Address: 3011 Malibu Canyon Road

City: Malibu State: CA Zip: 90265

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: 11/30/2009

A. Patent Application No.(s) (New Application) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Cary Tope-McKay

Internal Address: _____

Street Address: 23852 Pacific Coast Hwy #311

City: Malibu State: CA Zip: 90265

6. Total number of applications and patents involved: ☐

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

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number: _____

DO NOT USE THIS SPACE

9. Signature.

Cary Tope McKay

Name of Person Signing

Signature

11/30/2009

Date

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

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

2/02/2009 HDESTA1 00000031 12592687

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PATENT
REEL: 023628 FRAME: 0185

Attorney Docket: HRL123

HRL Docket: 020107

Invention Title: **COLLABORATIVE MULTICAST ROUTING (CMR) FOR MULTICASTING IN UNIDIRECTIONAL, HYBRID, MULTI-TIERED MOBILE WIRELESS NETWORK**

ASSIGNMENT

WHEREAS, I, Mohiuddin Ahmed of 13634 Chesterfield Drive, Moorpark, CA 93021, United States of America (hereinafter "Assignor") have invented certain new and useful improvements in **COLLABORATIVE MULTICAST ROUTING (CMR) FOR MULTICASTING IN UNIDIRECTIONAL, HYBRID, MULTI-TIERED MOBILE WIRELESS NETWORK** (hereinafter "Invention") for which an application for a United States Utility Patent is being filed, and/or for which Assignors are making or have made a foreign application for intellectual or industrial property protection under the appropriate body of law corresponding to that foreign jurisdiction.

AND

WHEREAS, HRL Laboratories, LLC, a limited liability company organized and existing under the laws of the State of Delaware, United States of America and having a place of business at 3011 Malibu Canyon Road, Malibu, California, United States of America, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in the Invention within the United States of America and its territorial possessions, and in all foreign countries in which intellectual or industrial property protection may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, I, the Assignor desire to and do hereby assign, sell, and transfer unto Assignee the full and exclusive right to the Invention in the United States of America and its territorial possessions and in all foreign countries, as well as, the entire right, title and interest in and to any and all intellectual or industrial property rights including, but not limited to, Patents, designs, utility models, and inventor certificates which may be granted therefore in the United States of America and its territorial possessions and in all foreign countries, I hereby authorize and request the U.S. Patent Offices and the equivalent offices at foreign countries, to issue to the Assignee, any and all applicable intellectual or industrial property rights in the Invention, for the Assignee's sole use and benefit; and for the use and benefit of his legal representatives, to the full end of the term for which United States and foreign Patents or the like may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

I further covenant and agree with the Assignee that I have a full and unencumbered title to the invention hereby assigned, which title I warrant unto the Assignee, and I further agree that I will, without demanding any further consideration therefore, at the request and at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign Patents or the like for the Invention, and for maintaining and perfecting the Assignee's right to the Invention and any and all intellectual or industrial property rights in it, particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

Executed this 8th day of November, 2004,
at MALIBU, CA (city).

Mohiuddin Ahmed
(Signature)

Attorney Docket: HRL123

HRL Docket: 020107

Invention Title: **COLLABORATIVE MULTICAST ROUTING (CMR) FOR MULTICASTING IN UNIDIRECTIONAL, HYBRID, MULTI-TIERED MOBILE WIRELESS NETWORK**

ASSIGNMENT

WHEREAS, I, Son Dao of 18110 Herbold St., Northridge, CA 91325, United States of America (hereinafter "Assignor") have invented certain new and useful improvements in **COLLABORATIVE MULTICAST ROUTING (CMR) FOR MULTICASTING IN UNIDIRECTIONAL, HYBRID, MULTI-TIERED MOBILE WIRELESS NETWORK** (hereinafter "Invention") for which an application for a United States Utility Patent is being filed, and/or for which Assignors are making or have made a foreign application for intellectual or industrial property protection under the appropriate body of law corresponding to that foreign jurisdiction.

AND

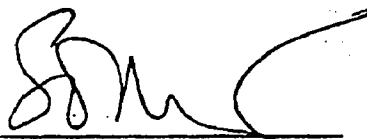
WHEREAS, HRL Laboratories, LLC, a limited liability company organized and existing under the laws of the State of Delaware, United States of America and having a place of business at 3011 Malibu Canyon Road, Malibu, California, United States of America, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in the Invention within the United States of America and its territorial possessions, and in all foreign countries in which intellectual or industrial property protection may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, I, the Assignor desire to and do hereby assign, sell, and transfer unto Assignee the full and exclusive right to the Invention in the United States of America and its territorial possessions and in all foreign countries, as well as, the entire right, title and interest in and to any and all intellectual or industrial property rights including, but not limited to, Patents, designs, utility models, and inventor certificates which may be granted therefore in the United States of America and its territorial possessions and in all foreign countries, I hereby authorize and request the U.S. Patent Offices and the equivalent offices at foreign countries, to issue to the Assignee, any and all applicable intellectual or industrial property rights in the Invention, for the Assignee's sole use and benefit; and for the use and benefit of his legal representatives, to the full end of the term for which United States and foreign Patents or the like may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

I further covenant and agree with the Assignee that I have a full and unencumbered title to the invention hereby assigned, which title I warrant unto the Assignee, and I further agree that I will, without demanding any further consideration therefore, at the request and at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign Patents or the like for the Invention, and for maintaining and perfecting the Assignee's right to the Invention and any and all intellectual or industrial property rights in it, particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have herunto set my hand.

Executed this 3RD day of NOVEMBER, 2004,
at MALIBU (city) CA


(Signature)

Attorney Docket: HRL123

HRL Docket: 020107

Invention Title: **COLLABORATIVE MULTICAST ROUTING (CMR) FOR MULTICASTING IN UNIDIRECTIONAL, HYBRID, MULTI-TIERED MOBILE WIRELESS NETWORK**

ASSIGNMENT

WHEREAS, I, Noparut VANITCHANANT of 79 E. Calaveras Street, Altadena, CA 91001, United States of America (hereinafter "Assignor") have invented certain new and useful improvements in **COLLABORATIVE MULTICAST ROUTING (CMR) FOR MULTICASTING IN UNIDIRECTIONAL, HYBRID, MULTI-TIERED MOBILE WIRELESS NETWORK** (hereinafter "Invention") for which an application for a United States Utility Patent is being filed, and/or for which Assignors are making or have made a foreign application for intellectual or industrial property protection under the appropriate body of law corresponding to that foreign jurisdiction.

AND

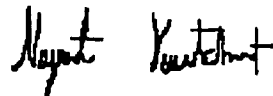
WHEREAS, HRL Laboratories, LLC, a limited liability company organized and existing under the laws of the State of Delaware, United States of America and having a place of business at 3011 Malibu Canyon Road, Malibu, California, United States of America, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in the Invention within the United States of America and its territorial possessions, and in all foreign countries in which intellectual or industrial property protection may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, I, the Assignor desire to and do hereby assign, sell, and transfer unto Assignee the full and exclusive right to the Invention in the United States of America and its territorial possessions and in all foreign countries, as well as, the entire right, title and interest in and to any and all intellectual or industrial property rights including, but not limited to, Patents, designs, utility models, and inventor certificates which may be granted therefore in the United States of America and its territorial possessions and in all foreign countries, I hereby authorize and request the U.S. Patent Offices and the equivalent offices at foreign countries, to issue to the Assignee, any and all applicable intellectual or industrial property rights in the Invention, for the Assignee's sole use and benefit; and for the use and benefit of his legal representatives, to the full end of the term for which United States and foreign Patents or the like may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

Executed this 30 day of October, 2004,
at Mississauga, Ontario, Canada.



(Signature)

PATENT