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1. Name of conveying party(ies):
   (1) Daniel F. SIEVENPIPER
   (2) James H. SCHAFFNER
   (3) Gregory L. TANGONAN

   Additional name(s) of conveying parties attached? [ ] YES [X] NO

2. Name and address of receiving parties:
   Name: HRL Laboratories, LLC
   Internal Address:

   Street Address: 3011 Malibu Canyon Road
   City: Malibu State: California
   Zip: 90265-4799 Country: USA

   Additional name(s) & address(es) attached? [ ] YES [X] NO

Execution Date: May 4, 2004 by Daniel F. SIEVENPIPER
May 7, 2004 by James H. SCHAFFNER and May 5, 2004 by Gregory L. TANGONAN

4. Application number(s) or patent number(s):
   A. Patent Application No(s): 10844104
   B. Patent No(s):

   Additional numbers attached? [ ] YES [X] NO

5. Name and address of party to whom correspondence concerning document should be mailed:
   Richard P. Berg
   LADAS & PARRY
   Street Address: 5670 Wilshire Boulevard, #2100
   City: Los Angeles State: CA Zip: 90036

6. Total number of application and patents involved: [X] 1

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CONFIRMATORY ASSIGNMENT

WHEREAS:  
Daniel F. Sievenpiper
Residing at: 1921 17th St. #3
Santa Monica, California 90404

and

James H. Schaffner
Residing at: 10560 Alabama Avenue
Chatsworth, California 91311

and

Gregory L. Tagonan
Residing at: 141 Santa Rosa Avenue
Oxnard, California 93035

(hereinafter referred to as ASSIGNORS), have invented a certain invention entitled:

"AN ADAPTIVE BEAM FORMING ANTENNA SYSTEM USING A TUNABLE IMPEDANCE SURFACE"

for which application for Letters Patent of the United States has been executed on even date herewith, and which application claims the benefit of U.S. Provisional Application(s) No(s). 60/470,029, filed on 12 May 2003, under 35 U.S.C. Section 119(e);

WHEREAS: HRL Laboratories, LLC

A Limited Liability Company formed under the laws of the State of Delaware, United States of America,

having its principal place of business at:

3011 Malibu Canyon Road
Malibu, California 90265-4799

(hereinafter referred to as ASSIGNEE), is desirous of confirming that it has acquired the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that ASSIGNORS, for good and valuable consideration, hereby confirm that, effective as of the date of filing said U.S. Provisional Application, that they did sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said invention in the United
States and its territorial possessions and in all foreign countries, including the right to claim priority under any applicable provisions of the International Convention and the Patent Cooperation Treaty and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, assignments related to said application or said invention, and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Subscribed and executed at Malibu, CA

Inventor: Daniel F. Sievekamp

Subscribed and executed at Malibu, CA

Inventor: James H. Schaffner
Subscribed and executed at Oxnard, Ca


Inventor: Gregory L. Tangonan