

03-14-2003

Form PTO-1595
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U.S. DEPARTMENT OF COMMERCE
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OMB No. 0651-0027 (exp. 5/31/2002)

102390549

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

1. Name of conveying party(ies):

David S. Yip
Edward M. Garber
Alvin M. Kong

2.28.03

2. Name and address of receiving party(ies)

Name: Northrop Grumman Corporation

Internal Address: _____

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Street Address: 1840 Century Park East

City: Los Angeles State: CA Zip: 90067

Execution Date: February 27, 2003

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: 02/27/2003

A. Patent Application No.(s)

B. Patent No.(s)

10376802

Additional numbers attached? Yes No

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

Name: Patent Counsel

Internal Address: Northrop Grumman

Space Technology & Mission Systems Corp.

Intellectual Asset Management

Street Address: One Space Park, E2/6051

City: Redondo Beach State: CA Zip: 90278

6. Total number of applications and patents involved: 1

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

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

20-1515

(Attach duplicate copy of this page if paying by deposit account)

03/14/2003 LUNELLER 06000659 201515 10376802

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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.

Noel F. Heal, Reg. No. 26,074

Name of Person Signing

Noel F. Heal
Signature

February 27, 2003

Date

Total number of pages including cover sheet, attachments, and documents 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 013839 FRAME: 0619

11130 U.S. PTO
10/27/02

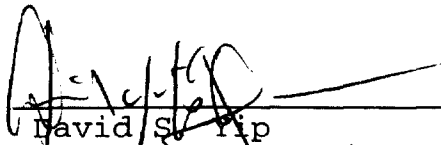


ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we David S. Yip, Edward M. Garber, and Alvin M. Kong respectively, of La Mirada, California; Los Angeles, California; and Manhattan Beach, California do hereby sell and assign to Northrop Grumman Corporation, One Space Park, Redondo Beach, California, a Delaware corporation, its successors and assigns, the entire right, title and interest in and to the improvements in WEIGHTED SAW REFLECTOR USING DISTRIBUTED ACOUSTIC REFLECTIVE DOTS which has been invented by us, as described in the application for United States Patent which we executed respectively, on February 27, 2003, February 27, 2003, and February 27, 2003, and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations, and extensions thereof, and the right to claim the priority date of the first filed application in the United States, and authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said Northrop Grumman Corporation, or its successors or assigns, and agree that on request and without further consideration, but at the expense of Northrop Grumman Corporation, we will communicate to Northrop Grumman Corporation or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid Northrop Grumman Corporation, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

2 / 27, 2003

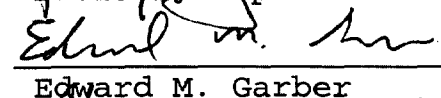
Inventor:



David S. Yip

2 / 27, 2003

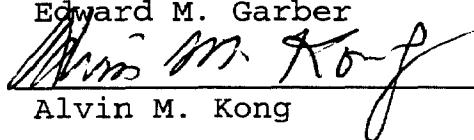
Inventor:



Edward M. Garber

2 / 27, 2003

Inventor:



Alvin M. Kong

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On February 27, 2003 before me, Lynn E. Cabiles
personally appeared David S. Yip

~~personally known to me -or-~~ X proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that he/she executed the same in
his/her authorized capacity, and that by his/her signature on the
instrument the person, or the entity upon behalf of which the person
acted, executed the instrument.



WITNESS my hand and official seal.

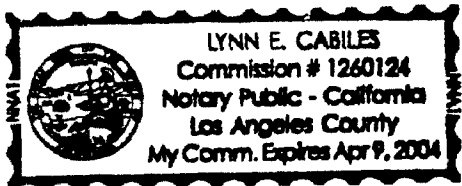
Lynn E. Cabiles
Notary Public

(SEAL)

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On February 27, 2003 before me, Lynn E. Cabiles
personally appeared Edward M. Garber

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satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that he/she executed the same in
his/her authorized capacity, and that by his/her signature on the
instrument the person, or the entity upon behalf of which the person acted,
executed the instrument.



WITNESS my hand and official seal.

Lynn E. Cabiles
Notary Public

(SEAL)

Docket No. 12-1258

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On February 27, 2003 before me, Lynn E. Cabiles
personally appeared Alvin M. Kong
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satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that ~~he~~ she executed the same in
~~his~~ her authorized capacity, and that by ~~his~~ her signature on the
instrument the person, or the entity upon behalf of which the person
acted, executed the instrument.



WITNESS my hand and official seal.

Lynn E. Cabiles
Notary Public

(SEAL)