

Atty. Docket No.: 1215-0504P(000545-078)

Page 1 of 1

10-20-2004

HEET



To the Honorable Commission

and original documents or copy thereof.

102862951

Address of receiving party(ies)

1. Name of conveying party(ies):

[FAMILY NAME (ALL CAPS), Given Name]
JACOBSON, Rena Y.
GUPTA, Tapan K.
CHEUNG, Peter
VASILOW, Theodore R.
SMYTHE, Wayne A.
WILKIE, James L.

Name: **NORTHROP GRUMMAN CORPORATION**

Internal Address:

Street Address: **1840 Century Park East**City: **Los Angeles** State: **CA** ZIP: **90067**Country: **USA** Postal Code:

Additional name(s) of conveying party(ies) attached?

☐ YES ☒ NOAdditional name(s) & address(es) attached? ☐ YES ☒ NO

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: **August 19, 2004, August 12, 2004, August 9, 2004, August 9, 2004, August 9, 2004, and August 6, 2004, respectively**

10/15/04

4. Application number(s) or patent number(s): 10/896,174

If this document is being filed together with a new application, the execution date of the application is: **August 19, 2004, August 12, 2004, August 9, 2004, August 9, 2004, August 9, 2004, and August 6, 2004, respectively**

A. Patent Application No(s).

10/896,174

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

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

Name: **BIRCH, STEWART, KOLASCH & BIRCH, LLP**
Street Address: **P.O. BOX 747**
City: **FALLS CHURCH** State: **VA** ZIP: **22040-0747**
Country: **USA**
Attention: **William L. Gates, Esq.**

6. Total No. of applications/patents involved:

7. **one (1)**7. Total fee (37 C.F.R. § 3.41): **\$40.00**

- ☒ Enclosed
☒ Authorized to be charged to deposit account, if no fee attached.

8. Deposit account number: **02-2448**

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

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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.

William L. Gates, #20,848
Name of Person Signing/Reg. No.

William L. Gates
Signature

October 15, 2004
Date

Total number of pages including cover sheet, attachments, and document: **three (3)**

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1215-0504P/000545-078

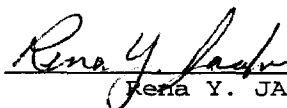
COPY

N.G. Case 1215-0504P (000545-078)

ASSIGNMENT JOINT

In accordance with existing Employee Intellectual Property Agreement(s) and/or other undertaking(s) entered into for good and valuable consideration, receipt of which is hereby acknowledged, we, Rena Y. JACOBSON of Ellicott City, MD 21043, Tapan K. GUPTA of Ellicott City, MD 21043, Peter Cheung of Elkridge, MD 21075, Theodore R. VASILOW of New Freedom, PA 17349, Wayne A. SMYTHE of Pasadena, MD 21122, and James L. WILKIE of Baltimore, MD 21229, hereby sell and assign to **NORTHROP GRUMMAN CORPORATION**, a Corporation organized and existing under the laws of Delaware, U.S.A., having its principal place of business at 1840 Century Park East, Los Angeles, California 90067-2199, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention in **APPARATUS AND METHOD FOR SIDE PRINTING ON LOW TEMPERATURE CO-FIRED CERAMIC (LTCC) SUBSTRATES**, invented by us and the application for United States patent therefor, executed on the same day as the assignment is executed and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations in countries foreign to the United States, and in and to any Letters Patent or Utility Model Registration which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent or Utility Model Registration to the said **NORTHROP GRUMMAN CORPORATION** its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Corporation, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said **NORTHROP GRUMMAN CORPORATION** its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will, upon request, sign all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Corporation, its successors, assigns, nominees or other legal representatives, either in its or their own name, to apply for, obtain and enforce proper patent and/or Utility Model protection for said invention in all countries, all without further consideration but at the expense of said **NORTHROP GRUMMAN CORPORATION** its successors, assigns, nominees or other legal representatives.

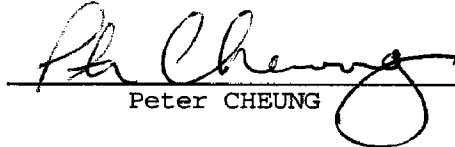
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 19 day
of August, 2004.


Rena Y. JACOBSON

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 12th day
of August, 2004.


Tapan K. GUPTA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 9 day
of August, 2004.


Peter CHEUNG

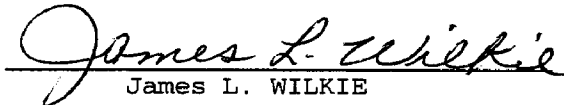
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 9 day
of August, 2004.


Theodore R. VASILOW

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 9 day
of Aug, 2004.


Wayne A. SMYTHE

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 6 day
of August, 2004.


James L. WILKIE