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

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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):
FANG-CHENG CHANG

2. Name and address of receiving party(ies)
Name: **Numerical Technologies, Inc.**

Internal Address: _____

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

3. Nature of conveyance:

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

27 JANUARY 2003

Execution Date: _____

Street Address: **70 W. Plumeria Drive**

City: **San Jose** State: **CA** Zip: **95134**

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: **01/27/03**

A. Patent Application No.(s)

1-30-03

B. Patent No.(s)

10354382

Additional numbers attached? Yes No

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

Name: **Mark A. Haynes**

Internal Address: _____

Haynes Beffel & Wolfeld LLP

Street Address: **P.O. Box 366**

City: **Half Moon Bay** State: **CA** Zip: **94019**

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: **50-0869**

Attorney Docket No.: NMTI 1005-1

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

DO NOT USE THIS SPACE

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.

Mark A. Haynes

Name of Person Signing

Signature

29 Jan 03

Date

Total number of pages including cover sheet, attachments, and documents: **3**

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

1135 U.S. PTO
10/054382
01/30/03

**SOLE TO CORPORATE
ASSIGNMENT**

WHEREAS, the undersigned,

(1) Fang-Cheng Chang
1362 Yukon Terrace
Sunnyvale, CA 94087

hereinafter termed "Inventor", has invented certain new and useful improvements in

**SYSTEM AND METHOD FOR GENERATING A TWO-DIMENSIONAL YIELD
MAP FOR A FULL LAYOUT**

and has filed an application for a United States patent disclosing and identifying the above invention on _____ as Application No. _____, OR is filing such an application herewith, and has executed an oath or declaration of inventorship for such application on:

(1) the _____ day of _____, 2003;

(hereinafter termed "application"); and

WHEREAS, **Numerical Technologies, Inc.**, a corporation of **Delaware**, having a place of business at **70 W. Plumeria Drive, San Jose, CA 95134** (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor hereby jointly and severally covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other

papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, their respective heirs, legal representatives and assigns.

4. Said Inventor hereby jointly and severally warrants and represents that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor has executed and delivered this instrument to said Assignee as of the dates written below.

[Handwritten signature of Fang-Cheng Chang]

Fang-Cheng Chang

State of California)
County of Santa Clara)

On 1/27, 2003, before me, Ann C. Williams, Notary Public, personally appeared Fang-Cheng Chang,

personally known to me or 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.

Jan. 27, 2003

Date

WITNESS my hand and official seal.

[Handwritten signature of Ann C. Williams]

(Notary Public)

