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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):

SMITH, Daniel J.
SMITH, Edwin F.

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

2. Name and address of receiving party(ies)

Name: Mentor Graphics Corporation

Internal Address: _____

Street Address: 8005 SW Boeckman Drive

City: Wilsonville State: OR Zip: 97070

Additional Name(s) & address(es) attached? Yes No

19249 U.S. PTO
10/627056
07/25/03

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: **July 22, 2003**

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: **July 22, 2003**

A. Patent Application No.(s)

B. Patent No.(s)

10627056

Additional numbers attached? Yes No

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

Name: Kenneth F. Smolik

Internal Address: Banner & Witcoff, Ltd.

Street Address: 10 South Wacker Drive

Suite 3000

City: Chicago State: IL Zip: 60606

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: **19-0733**

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

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9. Statement and signature.

Express Mail No. EV 335691097 US

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.

Kenneth F. Smolik
Name of Person Signing

Kenneth F. Smolik
Signature

July 25, 2003
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

08/04/2003 ECOMPER 00000016 190733 10627056

01 FC:8021 40.00 BA

PATENT
REEL: 014334 FRAME: 0526

ASSIGNMENT

Application No. - _____

Filing Date: July 25, 2003

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to **MENTOR GRAPHICS CORPORATION** its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

GENERATING A SPLIT POWER PLANE OF A MULTI-LAYER PRINTED CIRCUIT BOARD

and identified as **Attorney Docket No. 003921.00151** in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

July 22, 2003
Date: _____

Date

Daniel J. Smith
Daniel J. Smith

Edwin F. Smith

ASSIGNMENT

Application No. - _____

Filing Date: July 25, 2003

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to **MENTOR GRAPHICS CORPORATION** its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

GENERATING A SPLIT POWER PLANE OF A MULTI-LAYER PRINTED CIRCUIT BOARD

and identified as **Attorney Docket No. 003921.00151** in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

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The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date:

7/22/03

Date

Daniel J. Smith



Edwin F. Smith

BANNER & WITCOFF, LTD.
Ten South Wacker Drive
Chicago, Illinois 60606
312-463-5000

RECORDED: 07/25/2003

**PATENT
REEL: 014334 FRAME: 0528**