ASSIGNMENT RECORDAT



atents Only

To the Honorable Commissioner of Patents and Hauting 2005	3 Date: July 17, 2001
Please record the attached original documents or copy thereof.	Attorney Docket No. 5347-211
Name of conveying party(ies):	2. Name and address of receiving party(ies):
Michael W. Beattie Lawrence T. Pileggi	Carnegie Mellon University 5000 Forbes Avenue Pittsburgh, PA 15213
Additional name(s) of conveying party(ies) attached? Yes X No	210
3. Nature of conveyance: X	Additional name(s) & address(es) attached? Yes X No
4. Application Serial NoPatent NoPatent No	
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: _1
concerning this document should be mailed: Mitchell S. Bigel Myers Bigel Sibley & Sajovec P. O. Box 37428 Raleigh NC 27627	7. Total fee (37 CFR 3.41) \$40.00 X Enclosed Authorized to be charged to deposit account
	8. Deposit account number: 50-0220
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. Mitchell S. Bigel, #29,614 Name of Person Signing Signature Total number of pages including cover sheet, attachments and document: 3	
7/20/2001 MAHMED1 00000046 500220 09907334 1 FC:581 40.00 CH	

PATENT REEL: 012000 FRAME: 0306

ASSIGNMENT

THIS ASSIGNMENT, made by us, **Michael W. Beattie**, citizen of the United States of America, residing at 585 South Negley Avenue, Apt. 13, Pittsburgh, Pennsylvania 15232; and **Lawrence T. Pileggi**, citizen of the United States of America, residing at 357 Dorseyville Road, Pittsburgh, Pennsylvania 15215;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR CREATING HIERARCHICAL EQUIVALENT CIRCUIT MODELS for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. ________, filed ________) the filing date and application number of said application when known or to file this Assignment concurrently with the application; and

WHEREAS, **Carnegie Mellon University**, a nonprofit corporation having a principal place of business at 5000 Forbes Avenue, Pittsburgh, Pennsylvania 15213, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as

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fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 16^{+h} Michael W. Beattie

(SEAL)

Lawrence T Pileggi STATE OF PENNSYLVANIA COUNTY OF Allegh eney)

Before me personally appeared the persons described in and who executed the foregoing instrument, and they acknowledged to me that they executed the same for the purposes therein stated, this 1th day of 1th , 2001.

Notary Public , 2001.

SEAL

RECORDED: 07/17/2001

My Commission Expires: Alober 13 3001

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Notarial Seal
Judith A. Bandela, Notary Public
Dravesburg Bero, Allegheny County
My Commission Expires Oct. 18, 2004 Member, Pennsylvania Association of Notaries

> PATENT REEL: 012000 FRAME: 0308