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Atty. Ref. No. 6727-65621

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**1. Total number of pages including cover sheet, attachments and document: 4****2. Name of Conveying Party(ies) and Execution Date(s) of Document(s)** ☐ Check here if additional name(s) attached

Name(s): (1) Sean J. Kirkpatrick and (2) Donald D. Duncan

Execution Date(s): (1) September 17, 2003 and (2) September 23, 2003

**3. Name and address of receiving party**☐ Check here if additional name(s) & address(es) are attached

Name Providence Health Systems

Address 9205 SW Barnes Road

City Portland

State/Country Oregon

Zip 97225

**4. Nature of Conveyance**☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:**5. Total number of applications and patents involved: 1****6. Total Fee (37 C.F.R. § 3.41): \$40.00****7. ☒ Please charge fees to Deposit Account No. 02-4550.****8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.**A. ☐ This document is being filed with a new application. Execution date is: \_\_\_\_\_B. ☒ Patent Application No.(s) or Patent No.(s): 10/414,707☐ Check here if additional numbers are attached**9. Correspondent's name, address, and telephone number**

Michael D. Jones

Klarquist Sparkman, LLP

One World Trade Center, Suite 1600

121 S.W. Salmon Street

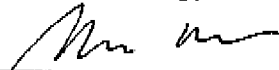
Portland, Oregon 97204-2988

Telephone: 503-226-7391

**10. ☐ Please return the attached postcard to confirm that these items have been received.****11. 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.*

Michael D. Jones

Name of Person Signing



Signature

October 1, 2003

Date

CH \$40.00 024550 10414707

cc: Docketing

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PATENT  
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## A S S I G N M E N T

WHEREAS, we, Sean J. Kirkpatrick, of Portland, County of Multnomah, State of Oregon, and Donald D. Duncan, of Silver Spring, County of Montgomery, State of Maryland, have invented a certain invention, entitled METHODS AND APPARATUS FOR EVALUATING MECHANICAL AND THERMAL STRAINS IN ELECTRONIC MATERIALS, SEMICONDUCTOR MATERIALS, AND OTHER STRUCTURES, for which we are making application for Letters Patent which was filed in the United States Patent and Trademark Office on April 15, 2003 and assigned Application No. 10/414,707; and

WHEREAS, Providence Health Systems, a corporation organized under the laws of the State of Oregon, having a place of business at 9205 SW Barnes Road, Portland, OR 97225, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Sean J. Kirkpatrick and Donald D. Duncan, hereby sell, assign and transfer to Providence Health Systems, the full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Providence Health Systems, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that


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we have full right so to do, and agree that we will communicate to Providence Health Systems, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Providence Health Systems, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

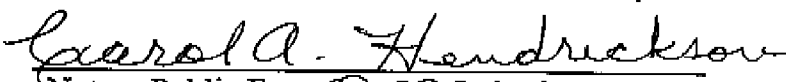
At Hillsboro, Oregon (City and State)  
on this 17<sup>th</sup> day of Sept., 2003.

  
Sean J. Kirkpatrick

STATE OF Oregon )  
COUNTY OF Washington ) ss.

This 17<sup>th</sup> day of Sept., 2003, before me personally came the above-named Sean J. Kirkpatrick, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

[SEAL]

  
Notary Public For Oregon  
My commission expires: Aug. 9, 2007

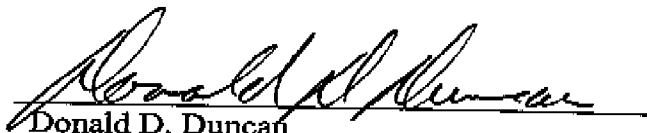


PATENT

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At Laurel, Maryland  
(City and State)  
on this 23<sup>rd</sup> day of September, 2003.

  
Donald D. Duncan

STATE OF Maryland )  
COUNTY OF Howard ) ss.

This 03<sup>rd</sup> day of September 2003, before me personally came the above-named Donald D. Duncan, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

  
Notary Public For  
My commission expires: 1/18/05

[SEAL]

