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Name of Conveying Party(ies): (1) Chunghorng R. LIU and (2) Salah Ramadan AGHA

Name and Address of Receiving Party(ies):  
Purdue Research Foundation  
Office of Technology Commercialization  
1291 Cumberland Avenue  
West Lafayette, Indiana 47906

Nature of Conveyance:

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☐ Change of Name    ☐ Other:

Execution Date of Document: (1) August 18, 2003 and (2) June 22, 2003

If this document is being filed together with a new application, the execution date of the application is: --

Patent Application Numbers:  
10/389 241

Patent Numbers:  
--

Total Number of Applications and Patents Involved: 1. An enclosed check includes the recording fee of \$40.00. The Commissioner is hereby authorized to credit any overpayment, or to charge any additional recording fee required by this paper, to Deposit Account No. 20-1124.

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Walnut Woods Centre  
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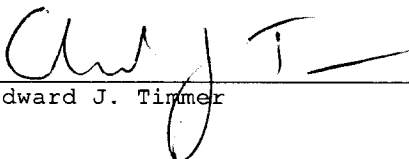
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Respectfully submitted,

  
Edward J. Timmer

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Check  
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PATENT  
REEL: 014492 FRAME: 0126

ASSIGNMENT

WHEREAS, we (1) Chunghorng R. LIU, and (2) Salah Ramadan AGHA, hereinafter called "ASSIGNORS", residing at (1) 212 Pawnee Drive, West Lafayette, Indiana 47906; and (2) P.O. Box 101, Khanyounis, Gaza Strip, Israel have invented certain new and useful improvements in DETERMINING EXPECTED FATIGUE LIFE OF HARD MACHINED COMPONENTS for which application Serial No. 10/389 241 for United States Letters Patent was filed on March 14, 2003; and

WHEREAS, Purdue Research Foundation hereinafter called "ASSIGNEE", having a place of business at Office of Technology Commercialization, 1291 Cumberland Avenue, West Lafayette, Indiana 47906 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, the receipt whereof is hereby acknowledged, and other valuable consideration, we the ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE the full and exclusive right to said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

We hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns.

FURTHER, we agree that we will communicate to said ASSIGNEE or its representative any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths or declarations, and generally cooperate with said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN WITNESS WHEREOF, we have hereunto set our hands this 18<sup>th</sup> day of August, 2003.

Signed in the presence of:

Signed:

Chunghorng R. LIU

Signed:

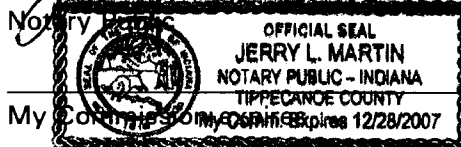
Salah Ramadan AGHA

STATE OF INDIANA )

COUNTY OF Tippecanoe ) ss.

On this 18<sup>th</sup> day of August, 2003 personally appeared before me the above-named Chunghorng R. LIU to me known and known to me to be the persons described in and who executed the foregoing instrument and acknowledged the same to be their free act and deed in and for the purposes set forth in said instrument.

SEAL



PATENT  
REEL: 014492 FRAME: 0127

# ASSIGNMENT

WHEREAS, we (1) Chunghorng R. LIU, and (2) Salah Ramadan AGHA, hereinafter called "ASSIGNORS", residing at (1) 212 Pawnee Drive, West Lafayette, Indiana 47906; and (2) P.O. Box 101, Khanyounis, Gaza Strip, Israel have invented certain new and useful improvements in DETERMINING EXPECTED FATIGUE LIFE OF HARD MACHINED COMPONENTS for which application Serial No. 10/389 241 for United States Letters Patent was filed on March 14, 2003; and

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IN WITNESS WHEREOF, we have hereunto set our hands this 22<sup>nd</sup> day of June, 2003.

Signed in the presence of:

Eng. Khalil Al-Astal (Research Assistant) Signed: \_\_\_\_\_  
Astal Chunghorng R. LIU  
Dr. Arafat Al-Astal (Civil Eng. Dep head) Signed: Salah Ramadan AGHA  
X  
Salah Ramadan AGHA