

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Bo Young LEE</td><td>11/20/2008</td></tr><tr><td>Jae Seong KIM</td><td>11/20/2008</td></tr><tr><td>Woong Ki HWANG</td><td>11/20/2008</td></tr></tbody></table>		Name	Execution Date	Bo Young LEE	11/20/2008	Jae Seong KIM	11/20/2008	Woong Ki HWANG	11/20/2008
Name	Execution Date								
Bo Young LEE	11/20/2008								
Jae Seong KIM	11/20/2008								
Woong Ki HWANG	11/20/2008								
RECEIVING PARTY DATA									
Name:	INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANKUK AVIATION UNIVERSITY								
Street Address:	HWANJEON-DONG, DEOGYANG-GU								
Internal Address:	100 HANGGONGDAE GIL,								
City:	GOYANG-CITY, GYEONGGI-DO								
State/Country:	REPUBLIC OF KOREA								
Postal Code:	412-791								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12325726</td></tr></tbody></table>		Property Type	Number	Application Number:	12325726				
Property Type	Number								
Application Number:	12325726								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	2088-173								
NAME OF SUBMITTER:	James E. Bame								

OP \$40.00 12325726

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PATENT
REEL: 021906 FRAME: 0391

Total Attachments: 2

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A S S I G N M E N T

WHEREAS, WE/I, **BO YOUNG LEE, JAE SEONG KIM & WOONG KI HWANG**, hereafter, together with any successors, legal representatives or assigns thereof, referred to as "the undersigned", invented certain new and useful improvements disclosed in an application for United States Letters Patent claiming priority of Korean Patent Application No. 10-2008-0107558, entitled: **APPARATUS FOR FORMING LONGITUDINAL THERMAL-FATIGUE CRACKS**;

WHEREAS, the undersigned hereby authorize(s) and request(s) his/her/their attorney, James E. Bame, of IPLA P.A. 3580 Wilshire Blvd. 17th Fl. Los Angeles, CA 90010, to insert herein on the underline 12/325,726 filed: December 1, 2008, application number and filing date of said application when known.

AND WHEREAS, **INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANKUK AVIATION UNIVERSITY**, an entity whose mailing address is 100 HANGGONGDAE GIL, HWANJEON-DONG, DEOYANG-GU, GOYANG-CITY, GYEONGGI-DO 412-791 REPUBLIC OF KOREA, hereafter, together with any successors, legal representatives or assigns thereof, referred to as "the assignee", wants to acquire the entire right, title and interest in and to said improvements and application;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to the assignee the entire right, title and interest in and to said improvements, and said application and all divisions, substitutions, continuations and continuations-in-part thereof, and all United States Letters Patents (and all other patents) which may be granted thereon and all reissues and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all extensions, renewals and reissues thereof) granted for said improvements in any foreign countries; and the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty is to issue patents on applications as aforesaid, to issue all patents for said improvements to the assignee in accordance with the terms of this assignment;

AND THE UNDERSIGNED HEREBY covenant(s) that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any agreement in conflict herewith;

AND THE UNDERSIGNED HEREBY further covenant(s) and agree(s) that the undersigned will communicate to the assignee any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional continuation, continuations legal proceeding, sign all lawful papers, execute all divisional, continuation, continuations-in-part, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid the assignee to obtain and enforce proper patent protection for said improvements in all countries.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the name(s).

Date: Nov. 20, 2008

Signature: 이영
BO YOUNG LEE

Date: Nov. 20, 2008

Signature: 김성
JAE SEONG KIM

Date: Nov 20, 2008

Signature: 황기
WOONG KI HWANG

STATE OF _____)
COUNTY OF _____)

Before me personally appeared said BO YOUNG LEE, JAE SEONG KIM & WOONG KI HWANG and acknowledged the foregoing instrument to be his free act and deed on this 20 day of November, 2008.

Seal