

11-30-2001



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Form PTO-1595 (Rev. 03/01)		RECORDATION FORM COVER SHEET		U.S. DEPARTMENT OF COMMERCE	
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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): Boris Karpman John L. Shade Daniel E. Kane Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies) Name: <u>United Technologies Corporation</u> Internal Address: _____ <u>United Technologies Building</u> Street Address: <u>One Financial Plaza</u> City: <u>Hartford</u> State: <u>CT</u> Zip: <u>06101</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>November 16, 2001</u>					
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: <u>11/16/2001</u> A. Patent Application No.(s) B. Patent No.(s) <u>09/990661</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>McCormick, Paulding & Huber LLP</u> Internal Address: _____ <u>CityPlace II</u> Street Address: <u>185 Asylum Street</u> City: <u>Hartford</u> State: <u>CT</u> Zip: <u>06103-3402</u>			6. Total number of applications and patents involved: <input type="text" value="1"/> 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>13-0235</u> (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>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.</i> <u>Daniel G. Mackas 38,541</u> <u>David G. Mackas</u> <u>11/20/2001</u> Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and documents: <input type="text" value="5"/>					

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

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PATENT
REEL: 012323 FRAME: 0888

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Boris Karpman, resident of 91 Jerry Daniels Road, Marlborough, CT 06447, John L. Shade, resident of 26 Farrell Road, Portland, CT 06480 and Daniel E. Kane resident of 92 Mile Hill Road, Tolland, CT 06084, respectively, have invented improvements in SYSTEM AND METHOD OF CONTROLLING CLEARANCE BETWEEN TURBINE ENGINE BLADES AND CASE BASED ON ENGINE COMPONENTS THERMAL GROWTH MODEL

for which an application for Letters Patent of the United States was filed herewith, and

WHEREAS,	United Technologies Corporation
a corporation of the State of	Delaware
having a place of business at	United Technologies Building One Financial Plaza Hartford, Connecticut 06101

is desirous of acquiring an interest in said invention, said application and the Letters Patent to be issued therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of ONE DOLLAR to each in hand paid and other good and valuable consideration, the receipt whereof is hereby acknowledged, we have sold, assigned and set over, and do hereby sell, assign and set over to said corporation, its successors or assigns, the entire right, title and interest to and in said invention in the United States and in all foreign countries, said United States application for Letters Patent therefor and the Letters Patent when issued; and we do hereby authorize and request the Commissioner of Patent and Trademarks to issue the Letters Patent based upon said application to said corporation as the assignees of our entire right, title and interest to and in the same, for the sole use and behoof of said corporation, its successors or assigns.

And we also hereby covenant and agree to sign all proper papers including divisional and other applications for patents and assignments thereof in the United States and application for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any other proper action that may in the judgment of the said corporation be necessary for securing thereto full rights to said invention, all of the foregoing to be at the expense of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand this

16th day of November, 2001.

Boris Karpman

Boris Karpman

STATE OF Connecticut
COUNTY OF Hartford

)
)ss: East Hartford, Connecticut
)

On this 16th day of November, 2001, before me, the subscriber, personally came Boris Karpman to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that he executed the same.

Jacqueline S. Lancaster
Notary Public

[SEAL]

JACQUELINE S. LANCASTER
NOTARY PUBLIC
MY COMMISSION EXPIRES 08/30/2005

IN TESTIMONY WHEREOF, I have hereunto set my hand this

16 day of November, 2001.

John L. Shade
John L. Shade

STATE OF Connecticut)
) ss: East Hartford, Connecticut
COUNTY OF Hartford)

On this 16th day of November, 2001, before me, the subscriber, personally came John L. Shade to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that he executed the same.

Jequeline S. Lancaster
Notary Public

[SEAL]

JEQUELINE S. LANCASTER
NOTARY PUBLIC
COMMISSION EXPIRES 09/30/2005

IN TESTIMONY WHEREOF, I have hereunto set my hand this

16th day of November, 2001.

Daniel E. Kane
Daniel E. Kane

STATE OF Connecticut)
) ss: East Hartford, Connecticut
COUNTY OF Hartford)

On this 16th day of November, 2001, before me, the subscriber, personally came Daniel E. Kane to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that he executed the same.

Jacqueline S. Lancaster
Notary Public

[SEAL]

JACQUELINE S. LANCASTER
NOTARY PUBLIC
MY COMMISSION EXPIRES 08/30/2005