


Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Nancy M. Rey and (see attached sheet)		2. Name and address of receiving party(ies) Name: <u>United Technologies Corporation</u> Internal Address: _____ _____ _____ Street Address: <u>One Financial Plaza</u> _____ _____ City: <u>Hartford</u> State: <u>CT</u> Zip: <u>06103</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input 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>May 12, 2000</u> and (see attached)					
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: _____ A. Patent Application No.(s) <u>09/824,419</u> filed April 2, 2001 B. Patent No.(s) _____ 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> _____ <u>(3309P-0115-1)</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: <u>1</u> 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. 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. <u>Marina F. Cunningham (Reg. 38,419)</u> Name of Person Signing  Signature <u>01/12/2004</u> Date Total number of pages including cover sheet, attachments, and documents: <u>56</u> Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231					

CH \$40.00 130235 09824419

Attachment to Form PTO-1595

U.S. Patent Application Serial No. 09/824,419

Continuation of:

Box 1 – Name of Conveying Parties

Box 3 – Execution Date

Robin Mihekun Miller	May 12, 2000
Thomas G. Tillman	May 12, 2000
Robert M. Rukus	May 12, 2000
David D. Pearson	May 12, 2000
Kenneth C. Dreitlein	May 12, 2000
Zaffir A. Chaudhry	May 17, 2000
Thomas A. Wynosky	May 11, 2000
John L. Kettle	May 15, 2000
Constantino V. Loffredo	May 15, 2000
James R. Dunphy	May 12, 2000

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Nancy M. Rey, Robin M. Miller, Thomas G. Tillman, Robert M. Rukus, John L. Kettle, James R. Dunphy, Zaffir A. Chaudhry, David D. Pearson, Kenneth C. Dreitlein, Constantino V. Loffredo and Thomas A. Wynosky

residents of:

57 Blue Hills Trail, Glastonbury, CT 06033; 108 Burbank Road, Ellington, CT 06029; 64 Highland Street, West Hartford, CT 06119; 205 Vernon Avenue, Apartment 232, Vernon, CT 06066; 3 Bruce Drive, Vernon, CT 06066; 21 Hickory Drive, South Glastonbury, CT 06073; 16 Midrocks Road, Ridgefield, CT 06877; 10 Berwyn Road, West Hartford, CT 06107; 16 Ashley Court, Glastonbury, CT 06033; 169 Forest Drive, Newington, CT 06111 and 39 Fence Creek Drive, Madison, CT 06443, respectively, have invented improvements in

**A VARIABLE AREA NOZZLE FOR GAS TURBINE ENGINES DRIVEN BY
SHAPE MEMORY ALLOY ACTUATORS**

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS	United Technologies Corporation
a corporation of the	State of Delaware
having a place of business at	1 Financial Plaza
	Hartford, CT 06103
	USA

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 Patents 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

2

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

_____ day of _____, 2000.

Nancy M. Rey

STATE OF _____
COUNTY OF _____

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Nancy M. Rey to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that she executed the same.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robin M. Miller

STATE OF _____
COUNTY OF _____

)
)ss:
)

3

On this _____ day of _____, 2000, before me, the subscriber, personally came Robin M. Miller 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas G. Tillman

STATE OF

)

COUNTY OF

)ss:

)

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas G. Tillman 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.

Notary Public

[SEAL]

4

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ day of _____, 2000.

Robert M. Rukus

STATE OF

)

COUNTY OF

)ss:

)

On this _____ day of _____, 2000, before me, the subscriber, personally came Robert M. Rukus 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ day of _____, 2000.

John L. Kettle

STATE OF

)

COUNTY OF

)ss:

)

5

On this _____ day of _____, 2000, before me, the subscriber, personally came John L. Kettle 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

James R. Dunphy

STATE OF)
)ss:
COUNTY OF)

On this _____ day of _____, 2000, before me, the subscriber, personally came James R. Dunphy 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

17 day of May, 2000.

Zaffir Chaudhry
Zaffir A. Chaudhry

STATE OF Connecticut)
COUNTY OF Fairfield) ss: Ledgefield

On this 17th day of May, 2000, before me, the subscriber, personally came Zaffir A. Chaudhry 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.

[Signature]
Notary Public
NANCY BERLIN
NOTARY PUBLIC
MY COMMISSION EXPIRES JUL 31, 2002 [SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

David D. Pearson

STATE OF)
COUNTY OF) ss:
)

7

On this _____ day of _____, 2000, before me, the subscriber, personally came David D. Pearson 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Kenneth C. Dreitlein

STATE OF)
)ss:
COUNTY OF)

On this _____ day of _____, 2000, before me, the subscriber, personally came Kenneth C. Dreitlein 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.

Notary Public

[SEAL]

8

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Constantino V. Loffredo

STATE OF

)
)ss:
)

COUNTY OF

On this _____ day of _____, 2000, before me, the subscriber, personally came Constantino V. Loffredo 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas A. Wynosky

STATE OF

)
)ss:
)

COUNTY OF

9

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas A. Wynosky 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.

Notary Public

[SEAL]

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Nancy M. Rey, Robin M. Miller, Thomas G. Tillman, Robert M. Rukus, John L. Kettle, James R. Dunphy, Zaffir A. Chaudhry, David D. Pearson, Kenneth C. Dreitlein, Constantino V. Loffredo and Thomas A. Wynosky

residents of:

57 Blue Hills Trail, Glastonbury, CT 06033; 108 Burbank Road, Ellington, CT 06029; 64 Highland Street, West Hartford, CT 06119; 205 Vernon Avenue, Apartment 232, Vernon, CT 06066; 3 Bruce Drive, Vernon, CT 06066; 21 Hickory Drive, South Glastonbury, CT 06073; 16 Midrocks Road, Ridgefield, CT 06877; 10 Berwyn Road, West Hartford, CT 06107; 16 Ashley Court, Glastonbury, CT 06033; 169 Forest Drive, Newington, CT 06111 and 39 Fence Creek Drive, Madison, CT 06443, respectively, have invented improvements in

**A VARIABLE AREA NOZZLE FOR GAS TURBINE ENGINES DRIVEN BY
SHAPE MEMORY ALLOY ACTUATORS**

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS
a corporation of the
having a place of business at

United Technologies Corporation
State of Delaware
1 Financial Plaza
Hartford, CT 06103
USA

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 Patents 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

2

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

12 day of May, 2000.

Nancy M. Rey
Nancy M. Rey

STATE OF Connecticut
COUNTY OF Hartford

)
ss: East Hartford
)

On this 12th day of May, 2000, before me, the subscriber, personally came Nancy M. Rey to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that she executed the same.

Ana R. Rivera
Notary Public

ANA R. RIVERA
NOTARY PUBLIC
MY COMMISSION EXPIRES NOV. 30, 2003

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

12th day of May, 2000.

Robin M. Miller
Robin M. Miller
Mihekun

STATE OF Connecticut
COUNTY OF Hartford

)
ss: East Hartford
)

3
On this 12th day of May, 2000, before me, the subscriber, personally came Robin M. Miller 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.

Ana R. Rivera
Notary Public

ANA R. RIVERA
NOTARY PUBLIC
MY COMMISSION EXPIRES NOV. 30, 2003 [SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

12th day of May, 2000.

Thomas G. Tillman
Thomas G. Tillman

STATE OF Connecticut
COUNTY OF Hartford

)
ss: East Hartford
)

On this 12th day of May, 2000, before me, the subscriber, personally came Thomas G. Tillman 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.

Ana R. Rivera
Notary Public

ANA R. RIVERA
NOTARY PUBLIC
MY COMMISSION EXPIRES NOV. 30, 2003 [SEAL]

4

IN TESTIMONY WHEREOF, I have hereunto set my hand this

12 day of MAY, 2000.

Robert M. Rukus
Robert M. Rukus

STATE OF Connecticut
COUNTY OF Fairfield

)
)ss: East Hartford
)

On this 12th day of May, 2000, before me, the subscriber, personally came Robert M. Rukus 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.

Ana R. Rivera
Notary Public

ANA R. RIVERA
NOTARY PUBLIC
MY COMMISSION EXPIRES NOV. 30, 2003

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

John L. Kettle

STATE OF
COUNTY OF

)
)ss:
)

5

On this _____ day of _____, 2000, before me, the subscriber, personally came John L. Kettle 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

James R. Dunphy

STATE OF
COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came James R. Dunphy 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Zaffir A. Chaudhry

STATE OF _____)
COUNTY OF _____) ss:
_____)

On this _____ day of _____, 2000, before me, the subscriber, personally came Zaffir A. Chaudhry 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

12th day of May, 2000.

David D. Pearson
David D. Pearson

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

7

On this 12th day of May, 2000, before me, the subscriber, personally came David D. Pearson 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.

Ana R. Rivera
Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

12th day of May, 2000.

Kenneth C. Dreitlein
Kenneth C. Dreitlein

STATE OF Connecticut
COUNTY OF Hartford

) ss: East Hartford
)

On this 12th day of May, 2000, before me, the subscriber, personally came Kenneth C. Dreitlein 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.

Ana R. Rivera
Notary Public

ANA R. RIVERA [SEAL]
NOTARY PUBLIC
MY COMMISSION EXPIRES NOV. 30, 2003

8

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Constantino V. Loffredo

STATE OF

)
)ss:
)

COUNTY OF

On this _____ day of _____, 2000, before
me, the subscriber, personally came Constantino V. Loffredo 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas A. Wynosky

STATE OF

)
)ss:
)

COUNTY OF

9

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas A. Wynosky 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.

Notary Public

[SEAL]

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Nancy M. Rey, Robin M. Miller, Thomas G. Tillman, Robert M. Rukus, John L. Kettle, James R. Dunphy, Zaffir A. Chaudhry, David D. Pearson, Kenneth C. Dreitlein, Constantino V. Loffredo and Thomas A. Wynosky

residents of:

57 Blue Hills Trail, Glastonbury, CT 06033; 108 Burbank Road, Ellington, CT 06029; 64 Highland Street, West Hartford, CT 06119; 205 Vernon Avenue, Apartment 232, Vernon, CT 06066; 3 Bruce Drive, Vernon, CT 06066; 21 Hickory Drive, South Glastonbury, CT 06073; 16 Midrocks Road, Ridgefield, CT 06877; 10 Berwyn Road, West Hartford, CT 06107; 16 Ashley Court, Glastonbury, CT 06033; 169 Forest Drive, Newington, CT 06111 and 39 Fence Creek Drive, Madison, CT 06443, respectively, have invented improvements in

**A VARIABLE AREA NOZZLE FOR GAS TURBINE ENGINES DRIVEN BY
SHAPE MEMORY ALLOY ACTUATORS**

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS
a corporation of the
having a place of business at

United Technologies Corporation
State of Delaware
1 Financial Plaza
Hartford, CT 06103
USA

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 Patents 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

2

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

_____ day of _____, 2000.

Nancy M. Rey

STATE OF)
COUNTY OF) ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Nancy M. Rey to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that she executed the same.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robin M. Miller

STATE OF)
COUNTY OF) ss:
)

3

On this _____ day of _____, 2000, before me, the subscriber, personally came Robin M. Miller 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas G. Tillman

STATE OF

COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas G. Tillman 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.

Notary Public

[SEAL]

4

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ day of _____, 2000.

Robert M. Rukus

STATE OF

COUNTY OF

)
}ss:
)

On this _____ day of _____, 2000, before
me, the subscriber, personally came Robert M. Rukus 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ day of _____, 2000.

John L. Kettle

STATE OF

COUNTY OF

)
}ss:
)

5

On this _____ day of _____, 2000, before me, the subscriber, personally came John L. Kettle 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

James R. Dunphy

STATE OF
COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came James R. Dunphy 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.

Notary Public

[SEAL]

6

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Zaffir A. Chaudhry

STATE OF

COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before
me, the subscriber, personally came Zaffir A. Chaudhry 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

David D. Pearson

STATE OF

COUNTY OF

)
)ss:
)

8

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ day of _____, 2000.

Constantino V. Loffredo

STATE OF)

COUNTY OF)

)ss:

On this _____ day of _____, 2000, before
me, the subscriber, personally came Constantino V. Loffredo 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ 11 day of May, 2000._____
Thomas A. Wynosky


STATE OF CONNECTICUT)

COUNTY OF NEW HAVEN)

)ss: MADISON

9

On this 11 day of MAY, 2000, before me, the subscriber, personally came Thomas A. Wynosky 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.



Notary Public
PHEBE M. MANSEER
NOTARY PUBLIC
MY COMMISSION EXPIRES MAY 31, 2001 [SEAL]

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Nancy M. Rey, Robin M. Miller, Thomas G. Tillman, Robert M. Rukus, John L. Kettle, James R. Dunphy, Zaffir A. Chaudhry, David D. Pearson, Kenneth C. Dreitlein, Constantino V. Loffredo and Thomas A. Wynosky

residents of:

57 Blue Hills Trail, Glastonbury, CT 06033; 108 Burbank Road, Ellington, CT 06029; 64 Highland Street, West Hartford, CT 06119; 205 Vernon Avenue, Apartment 232, Vernon, CT 06066; 3 Bruce Drive, Vernon, CT 06066; 21 Hickory Drive, South Glastonbury, CT 06073; 16 Midrocks Road, Ridgefield, CT 06877; 10 Berwyn Road, West Hartford, CT 06107; 16 Ashley Court, Glastonbury, CT 06033; 169 Forest Drive, Newington, CT 06111 and 39 Fence Creek Drive, Madison, CT 06443, respectively, have invented improvements in

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SHAPE MEMORY ALLOY ACTUATORS**

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS	United Technologies Corporation
a corporation of the	State of Delaware
having a place of business at	1 Financial Plaza
	Hartford, CT 06103
	USA

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 Patents 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

2

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

_____ day of _____, 2000.

Nancy M. Rey

STATE OF)
COUNTY OF)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Nancy M. Rey to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that she executed the same.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robin M. Miller

STATE OF)
COUNTY OF)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Robin M. Miller 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas G. Tillman

STATE OF)
COUNTY OF) ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas G. Tillman 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.

Notary Public

[SEAL]

4

IN TESTIMONY WHEREOF, I have hereunto set my hand this

____ day of _____, 2000.

Robert M. Rukus

STATE OF)

COUNTY OF)

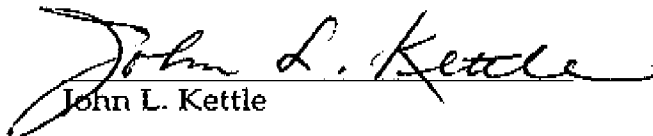
)ss:

On this _____ day of _____, 2000, before
me, the subscriber, personally came Robert M. Rukus 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

15TH day of May, 2000.
John L. Kettle

STATE OF

COUNTY OF

Connecticut
Dollard

)ss:

Vernon

On this 15th day of May, 2000, before me, the subscriber, personally came John L. Kettle 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.

Bernice K. Dixon
Notary Public
BERNICE K. DIXON
NOTARY PUBLIC
MY COMMISSION EXPIRES AUG. 31, 2002 [SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2000.

James R. Dunphy

STATE OF)
) ss:
COUNTY OF)

On this _____ day of _____, 2000, before me, the subscriber, personally came James R. Dunphy 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.

Notary Public
[SEAL]

6

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Zaffir A. Chaudhry

STATE OF

)

}SS:

COUNTY OF

;

On this _____ day of _____, 2000, before me, the subscriber, personally came Zaffir A. Chaudhry 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

David D. Pearson

STATE OF

)

)\$\$:

COUNTY OF

)

7

On this _____ day of _____, 2000, before me, the subscriber, personally came David D. Pearson 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Kenneth C. Dreitlein

STATE OF

)
)ss:

COUNTY OF

)

On this _____ day of _____, 2000, before me, the subscriber, personally came Kenneth C. Dreitlein 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.

Notary Public

[SEAL]

8

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Constantino V. Loffredo

STATE OF

$$\left. \begin{array}{l}) \\) \\) \end{array} \right\} \text{SS:}$$

COUNTY OF

On this _____ day of _____, 2000, before me, the subscriber, personally came Constantino V. Loffredo 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas A. Wynosky

STATE OF

)
)ss:
)

COUNTY OF

9

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas A. Wynosky 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.

Notary Public

[SEAL]

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Nancy M. Rey, Robin M. Miller, Thomas G. Tillman, Robert M. Rukus, John L. Kettle, James R. Dunphy, Zaffir A. Chaudhry, David D. Pearson, Kenneth C. Dreitlein, Constantino V. Loffredo and Thomas A. Wynosky

residents of:

57 Blue Hills Trail, Glastonbury, CT 06033; 108 Burbank Road, Ellington, CT 06029; 64 Highland Street, West Hartford, CT 06119; 205 Vernon Avenue, Apartment 232, Vernon, CT 06066; 3 Bruce Drive, Vernon, CT 06066; 21 Hickory Drive, South Glastonbury, CT 06073; 16 Midrocks Road, Ridgefield, CT 06877; 10 Berwyn Road, West Hartford, CT 06107; 16 Ashley Court, Glastonbury, CT 06033; 169 Forest Drive, Newington, CT 06111 and 39 Fence Creek Drive, Madison, CT 06443, respectively, have invented improvements in

**A VARIABLE AREA NOZZLE FOR GAS TURBINE ENGINES DRIVEN BY
SHAPE MEMORY ALLOY ACTUATORS**

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS
a corporation of the
having a place of business at

United Technologies Corporation
State of Delaware
1 Financial Plaza
Hartford, CT 06103
USA

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 Patents 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

2

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

_____ day of _____, 2000.

Nancy M. Rey

STATE OF
COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Nancy M. Rey to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that she executed the same.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robin M. Miller

STATE OF
COUNTY OF

)
)ss:
)

3

On this _____ day of _____, 2000, before me, the subscriber, personally came Robin M. Miller 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas G. Tillman

STATE OF

)
)ss:
)

COUNTY OF

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas G. Tillman 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robert M. Rukus

STATE OF)
COUNTY OF)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Robert M. Rukus 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

John L. Kettle

STATE OF)
COUNTY OF)ss:
)

5

On this _____ day of _____, 2000, before me, the subscriber, personally came John L. Kettle 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

James R. Dunphy

STATE OF
COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came James R. Dunphy 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.

Notary Public

[SEAL]

6

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Zaffir A. Chaudhry

STATE OF

)
)ss:
)

COUNTY OF

On this _____ day of _____, 2000, before
me, the subscriber, personally came Zaffir A. Chaudhry 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

David D. Pearson

STATE OF

)
)ss:
)

COUNTY OF

7

On this _____ day of _____, 2000, before me, the subscriber, personally came David D. Pearson 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Kenneth C. Dreitlein

STATE OF _____
COUNTY OF _____

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Kenneth C. Dreitlein 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.

Notary Public

[SEAL]

8

IN TESTIMONY WHEREOF, I have hereunto set my hand this

15th day of MAY, 2000.

Constantino V. Loffredo
Constantino V. Loffredo

STATE OF CT)
COUNTY OF Hartford) ss:

On this 15 day of May, 2000, before me, the subscriber, personally came Constantino V. Loffredo 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.

ANN-MARIE FORS-KATZER
NOTARY PUBLIC
MY COMMISSION EXPIRES JAN. 31, 2004

[Signature]
Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas A. Wynosky

STATE OF)
COUNTY OF) ss:

9

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas A. Wynosky 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.

Notary Public

[SEAL]

ASSIGNMENT

THIS INSTRUMENT OF ASSIGNMENT WITNESSETH THAT:

WHEREAS, we, Nancy M. Rey, Robin M. Miller, Thomas G. Tillman, Robert M. Rukus, John L. Kettle, James R. Dunphy, Zaffir A. Chaudhry, David D. Pearson, Kenneth C. Dreitlein, Constantino V. Loffredo and Thomas A. Wynosky

residents of:

57 Blue Hills Trail, Glastonbury, CT 06033; 108 Burbank Road, Ellington, CT 06029; 64 Highland Street, West Hartford, CT 06119; 205 Vernon Avenue, Apartment 232, Vernon, CT 06066; 3 Bruce Drive, Vernon, CT 06066; 21 Hickory Drive, South Glastonbury, CT 06073; 16 Midrocks Road, Ridgefield, CT 06877; 10 Berwyn Road, West Hartford, CT 06107; 16 Ashley Court, Glastonbury, CT 06033; 169 Forest Drive, Newington, CT 06111 and 39 Fence Creek Drive, Madison, CT 06443, respectively, have invented improvements in

**A VARIABLE AREA NOZZLE FOR GAS TURBINE ENGINES DRIVEN BY
SHAPE MEMORY ALLOY ACTUATORS**

for which we have executed on even date herewith an application for Letters Patent of the United States, and

WHEREAS
a corporation of the
having a place of business at

United Technologies Corporation
State of Delaware
1 Financial Plaza
Hartford, CT 06103
USA

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 Patents 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

_____ day of _____, 2000.

Nancy M. Rey

STATE OF)
COUNTY OF)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Nancy M. Rey to me known and known to be the same person described in and who executed the foregoing instrument, and duly acknowledged that she executed the same.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robin M. Miller

STATE OF)
COUNTY OF)ss:
)

3

On this _____ day of _____, 2000, before me, the subscriber, personally came Robin M. Miller 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas G. Tillman

STATE OF

)
)ss:
)

COUNTY OF

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas G. Tillman 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.

Notary Public

[SEAL]

4

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Robert M. Rukus

STATE OF

)
)ss:
)

COUNTY OF

On this _____ day of _____, 2000, before
me, the subscriber, personally came Robert M. Rukus 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

John L. Kettle

STATE OF

)
)ss:
)

COUNTY OF

5

On this _____ day of _____, 2000, before me, the subscriber, personally came John L. Kettle 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

12 day of MAY, 2000.

James R. Dunphy
James R. Dunphy

STATE OF _____
COUNTY OF _____

)
)ss:
)

On this 12th day of May, 2000, before me, the subscriber, personally came James R. Dunphy 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.

Susan P. O'Neil
Notary Public

SUSAN P. O'NEIL
NOTARY PUBLIC
MY COMMISSION EXPIRES JUNE 30, 2001



PATENT
REEL: 014253 FRAME: 0052

6

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Zaffir A. Chaudhry

STATE OF
COUNTY OF

)
)ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Zaffir A. Chaudhry 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

David D. Pearson

STATE OF
COUNTY OF

)
)ss:
)

7

On this _____ day of _____, 2000, before me, the subscriber, personally came David D. Pearson 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Kenneth C. Dreitlein

STATE OF)
)ss:
COUNTY OF)

On this _____ day of _____, 2000, before me, the subscriber, personally came Kenneth C. Dreitlein 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Constantino V. Loffredo

STATE OF)
COUNTY OF) ss:
)

On this _____ day of _____, 2000, before me, the subscriber, personally came Constantino V. Loffredo 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.

Notary Public

[SEAL]

IN TESTIMONY WHEREOF, I have hereunto set my hand this

_____ day of _____, 2000.

Thomas A. Wynosky

STATE OF)
COUNTY OF) ss:
)

9

On this _____ day of _____, 2000, before me, the subscriber, personally came Thomas A. Wynosky 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.

Notary Public

[SEAL]