

FORM PTD-1595 (Modified)  
(Rev. 03-01)  
OMB No. 0651-0027 (exp. 5/31/2002)  
P08/REV03

04-09-2002



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings

102048606

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
David E. Tew; Torger J. Anderson;  
Roy N. Guile; David R. Sobel;  
Wendell V. Twelves, Jr.; and  
Gary D. Jones

2. Name and address of receiving party(ies):

Name: **United Technologies Corporation**

Internal Address:

3-25-02

Additional names(s) of conveying party(ies)

Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Street Address: **411 Silver Lane**

City: **Hartford** State: **CT** ZIP: **06101**

Execution Date: **February 27, 2002**

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: **(Feb. 27, 2002)**

A. Patent Application No. (s)

B. Patent No. (s)

USSN: 10/026,236  
--filed Dec. 21, 2001

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved: **1**

Name: **Ronald G. Cummings**

7. Total fee (37 CFR 3.41): \$ **40.00**

Internal Address: **United Technologies Research Center**

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

**Law Dept., Mail Stop 129-6**

Authorized to be charged to deposit account

Street Address: **411 Silver Lane**

8. Deposit account number:

**21-0282 (Order # R-4168)**

City: **East Hartford** State: **CT** ZIP: **06108**

(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.

**Stephen A. Schneeberger**

*Stephen A. Schneeberger*

**March 14, 2002**

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **6**

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

04/08/2002 6T0N11 00000108 210282 10026236

01 FC:581 40.00 CH

**PATENT**  
**REEL: 012755 FRAME: 0796**

## ASSIGNMENT


WHEREAS, We, David E. Tew of New Britain, Connecticut; Torger J. Anderson of Manchester, Connecticut; Roy N. Guile of Wethersfield, Connecticut; David R. Sobel of West Hartford, Connecticut; Wendell V. Twelves, Jr. of Glastonbury, Connecticut; and Gary D. Jones of Rocky Hill, Connecticut have invented certain improvements in "Pulse Detonation Engine having an Aerodynamic Valve" identified as Attorney Docket No. R-4168, and described in U. S. Patent Application Serial Number 10/036,236 filed December 21, 2001 and/but executed by the undersigned on the date(s) set after the signature(s) hereto, being owner(s) of all right, title and interest in and to said application and in and to any invention described therein, free from all prior assignments, agreements, licenses, mortgages, or other encumbrances whatsoever, and having full right to convey the entire interest both legal and equitable herein assigned; and

WHEREAS, UNITED TECHNOLOGIES CORPORATION, of Hartford, Connecticut, a corporation of the State of Delaware (assignee) is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

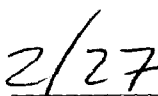
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned, the undersigned does (do) hereby sell, assign, transfer and set over unto said assignee, its successors and assigns, their entire right, title and interest in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any application filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also their entire right, title and interest in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the undersigned hereby authorize(s) and request(s) the issuing authority to issue any and all patents on said application or applications to said assignee or its successors and assigns.

The undersigned further agree(s), without any further payment or compensation by said assignee or its successors and assigns, to communicate to said assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said assignee, its successors or assigns and nominees to obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

IN TESTIMONY WHEREOF, the undersigned has(have) hereunto set his(their) hand(s) and seal(s) on the date after his(their) signature(s).

(L.S.) 

DAVID E. TEW

 , 2002

(L.S.) Torger J. Anderson  
TORGER J. ANDERSON

27 February, 2002

(L.S.) Roy N. Guile  
ROY N. GUILLE

2/28/, 2002

(L.S.) David R. Sobel  
DAVID R. SOBEL

2/27, 2002

(L.S.) Wendell V. Twelves, Jr.  
WENDELL V. TWELVES, JR.

2/27, 2002

(L.S.) Gary D. Jones  
GARY D. JONES

27 Feb, 2002

State of Connecticut ss: Carol Hartford  
County of Hartford

On this 27<sup>th</sup> day of February, 2002 before me personally appeared DAVID E. TEW to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.

Mary M. Krywonis  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

**MARY M. KRYWONIS**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES MAR. 31, 1998 2003

State of Connecticut )  
County of Hartford ) ss: East Hartford

On this 27<sup>th</sup> day of February, 2002 before me personally appeared TORGER J. ANDERSON to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.

Mary M. Krywonis  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

**MARY M. KRYWONIS**  
**NOTARY PUBLIC** *2003*  
MY COMMISSION EXPIRES MAR. 31, 1998

State of Connecticut )  
County of Hartford ) ss: East Hartford

On this 27<sup>th</sup> day of February, 2002 before me personally appeared ROY N. GUILÉ to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.

Mary M. Krywonis  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

**MARY M. KRYWONIS**  
**NOTARY PUBLIC** *2003*  
MY COMMISSION EXPIRES MAR. 31, 1998

State of Connecticut )  
County of Hartford ) ss: East Hartford

On this 27<sup>th</sup> day of February, 2002 before me personally appeared DAVID R. SOBEL to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.

Mary M. Krywonis  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

**MARY M. KRYWONIS**  
**NOTARY PUBLIC** *2003*  
MY COMMISSION EXPIRES MAR. 31, 1998

State of Connecticut ) ss: East Hartford  
County of Hartford )

On this 27<sup>th</sup> day of February, 2002 before me personally appeared WENDELL V. TWELVES, JR. to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.

Mary M. Krywonis  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

**MARY M. KRYWONIS**  
**NOTARY PUBLIC** 2003  
MY COMMISSION EXPIRES MAR. 31, 1998

State of Connecticut ) ss: East Hartford  
County of Hartford )

On this 27<sup>th</sup> day of February, 2002 before me personally appeared GARY D. JONES to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.

Mary M. Krywonis  
Notary Public

SEAL

My Commission Expires: \_\_\_\_\_

**MARY M. KRYWONIS**  
**NOTARY PUBLIC** 2003  
MY COMMISSION EXPIRES MAR. 31, 1998

c:\M. D. Applns\Assignments\R-4168