

10-24-2006

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

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103325694

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Blake J. Luczak  
Eric A. Hudson  
James T. Beals  
Eric L. Couch

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 10-16-06, 10-17-06, and 10-18-06

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: United Technologies Corporation

Internal Address: \_\_\_\_\_

Street Address: United Technologies Building

City: Hartford

State: Connecticut

Country: US Zip: 06101

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

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

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

10/23/2006 DBYRNE 00000213 210279 11582592

01 FC:8025 40.00 DA

Additional numbers attached? ☐ Yes ☒ No

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

Name: William B. Slate

Internal Address: Bachman & LaPointe, P.C.

Street Address: 900 Chapel Street, Suite 1201

City: New Haven

State: Connecticut Zip: 06510

Phone Number: 203-777-6628

Fax Number: 203-865-0297

Email Address: slatew@bachlap.com

**6. Total number of applications and patents involved:** \_\_\_\_\_

**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 21-0279

Authorized User Name William B. Slate

**9. Signature:**

Signature

October 18, 2006

Date

William B. Slate

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

## ASSIGNMENT

WHEREAS, WE, Blake J. Luczak of 176 Green Road, Manchester, CT 06042 and 447, Eric A. Hudson of 331 Burlington Road, Harwinton, CT 06791, James T. Beals of 17 Miles Standish Drive, West Hartford, CT 06107, and Eric L. Couch of 359 Benedict Drive, South Windsor, CT 06074, have invented certain improvements in INVESTMENT CASTING CORES AND METHODS, identified as Attorney Docket No. 0001165-US (06-180), and described in a patent application executed by the undersigned on the dates set after the signatures hereto, being owners 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

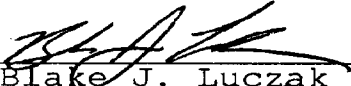
WHEREAS, UNITED TECHNOLOGIES CORPORATION, of Hartford, Connecticut, a corporation of the State of Delaware (assignee) is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) each and other good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned, the undersigned do hereby sell, assign, transfer and set over unto said assignee, its successors and assigns, the 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 the 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 authorizes and requests 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, 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 have-hereunto set their hand and seal on the date after their signature.

(L.S.)   
Blake J. Luczak

10/16/06  
Date

(L.S.)   
Eric A. Hudson

10/17/06  
Date

(L.S.) James T. Beals  
James T. Beals

                      
Date

(L.S.)   
Eric L. Couch

10/16/06  
Date

country; and the undersigned hereby authorizes and requests 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, 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 have-hereunto set their hand and seal on the date after their signature.

(L.S.) \_\_\_\_\_  
Blake J. Luczak

\_\_\_\_\_  
Date

(L.S.) \_\_\_\_\_  
Eric A. Hudson

\_\_\_\_\_  
Date

(L.S.) James T. Beals  
James T. Beals

10/18/06  
Date

(L.S.) \_\_\_\_\_  
Eric L. Couch

\_\_\_\_\_  
Date