



4/19/05

Express Mail Label No. EV 732118813 US

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

04-29-2005

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

		ET
To the Director of the U.S. Pate.		102991501
1. Name of conveying party(ies)/Execution Date(s): Oludele Popoola; Jeffrey P. Anderson; Michael E. Hawkins; Todd S. Johnson; H. Ravindranath Shetty  04-11-05; 04-11-05; 04-11-05; 04-11-05; Execution Date(s) 04-14-05 (respectively) 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: Zimmer Technology, Inc. Internal Address: Suite 1200  Street Address: 150 North Wacker Drive  City: Chicago State: Illinois Country: U.S.A. Zip: 60606 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"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		4. Application or patent number(s): <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s)  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address to whom correspondence concerning document should be mailed: Name: Cary R. Reeves Internal Address: _____ Street Address: 344 Creek Bend Drive  City: Alledo State: Texas Zip: 76008 Phone Number: (817) 594-5994 Fax Number: _____ Email Address: caryreeves@earthlink.net		6. Total number of applications and patents involved: <u>1</u>  7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)  8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number 09-0473 (Centerpulse) Authorized User Name _____
9. Signature:  April 19, 2005 Signature Date Gerald W. Roberts, Registration No. 45,046 Total number of pages including cover sheet, attachments, and documents: 11 Name of Person Signing		

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Registration Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

04/28/2005 ECOOPER 00000062 090473 11109426

01 FC:8021

40.00 DA

PATENT  
REEL: 016495 FRAME: 0978

**ASSIGNMENT**

WHEREAS, I, **Oludele Popoola**, residing at **50531 Prestonwood Ct., Granger, IN 46530**; **Jeffrey P. Anderson**, residing at **3739 N. Lancaster Ct., Warsaw, IN 46582**; **Michael E. Hawkins**, residing at **2350 West 350 South, Columbia City, IN 46725**; **Todd S. Johnson**, residing at **12733 Covington Manor Farms Road, Fort Wayne, IN 46814**; and **H. Ravindranath Shetty**, residing at **2740 Ivywood Drive, Warsaw, IN 46580**, have invented certain improvements entitled:

**METHOD FOR PRODUCING A ZIRCONIA-LAYERED  
ORTHOPEDIC IMPLANT COMPONENT**

described and claimed in an application for Letters Patent of the United States of America thereon, said application having been **filed contemporaneously herewith** and having been **executed by me contemporaneously herewith**;

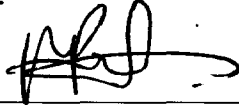
WHEREAS, **Zimmer Technology, Inc.**, a corporation organized and existing under the laws of the State of **Illinois**, having a place of business at **150 North Wacker Drive, Suite 1200, Chicago, Illinois 60606**, is to acquire my entire right, title and interest in and to said invention and said application for Letters Patent;

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) to me in hand paid, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I do hereby assign, sell, transfer and set over unto said **Zimmer Technology, Inc.**, its successors and assigns, the full, entire and exclusive right, title and interest, for the territory of the United States of America, Canada and for all other foreign countries, in and to said invention, as described in the application identified above, and in and to said application and any utility patent applications, divisions or continuations or continuations-in-part of this application and of any utility patent applications filed thereon or substitutes therefor which may be filed, and in and to any patents or reissues, renewals or extensions thereof (collectively, the "Application") which may be granted on said Application or for said invention, and in and to any patent application which may be filed on said invention in countries foreign to the United States of America and any patents granted thereon; said invention, Applications, and Letters Patent to be held and enjoyed by said **Zimmer Technology, Inc.**, and its successors or assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I hereby authorize and request the Patent and Trademark Office officials in the United

States of America and the Patent Office officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said **Zimmer Technology, Inc.**, as the assignee of my entire right, title and interest in and to the same, for the sole use and enjoyment of said **Zimmer Technology, Inc.**, its successors and assigns.

Further, I agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as said **Zimmer Technology, Inc.**, its successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America and/or in any foreign country, and/or to hold, enforce or convey said Letters Patent, reissues or extensions.



**Oludele Popoola**

4/14/05.

**Date**

4001-0040 (ZM0660) Assignment of Patent Application (Popoola) 04-09-05

**ASSIGNMENT**

WHEREAS, I, **Jeffrey P. Anderson**, residing at **3739 N. Lancaster Ct., Warsaw, IN 46582**; **Michael E. Hawkins**, residing at **2350 West 350 South, Columbia City, IN 46725**; **Todd S. Johnson**, residing at **12733 Covington Manor Farms Road, Fort Wayne, IN 46814**; **Oludele Popoola**, residing at **50531 Prestonwood Ct., Granger, IN 46530**; and **H. Ravindranath Shetty**, residing at **2740 Ivywood Drive, Warsaw, IN 46580**, have invented certain improvements entitled:

**METHOD FOR PRODUCING A ZIRCONIA-LAYERED  
ORTHOPEDIC IMPLANT COMPONENT**

described and claimed in an application for Letters Patent of the United States of America thereon, said application having been **filed contemporaneously herewith** and having been **executed by me contemporaneously herewith**;

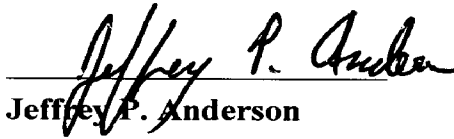
WHEREAS, **Zimmer Technology, Inc.**, a corporation organized and existing under the laws of the State of **Illinois**, having a place of business at **150 North Wacker Drive, Suite 1200, Chicago, Illinois 60606**, is to acquire **my** entire right, title and interest in and to said invention and said application for Letters Patent;

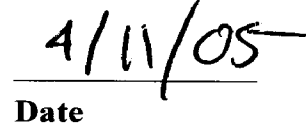
NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) to me in hand paid, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I do hereby assign, sell, transfer and set over unto said **Zimmer Technology, Inc.**, its successors and assigns, the full, entire and exclusive right, title and interest, for the territory of the United States of America, Canada and for all other foreign countries, in and to said invention, as described in the application identified above, and in and to said application and any utility patent applications, divisions or continuations or continuations-in-part of this application and of any utility patent applications filed thereon or substitutes therefor which may be filed, and in and to any patents or reissues, renewals or extensions thereof (collectively, the "Application") which may be granted on said Application or for said invention, and in and to any patent application which may be filed on said invention in countries foreign to the United States of America and any patents granted thereon; said invention, Applications, and Letters Patent to be held and enjoyed by said **Zimmer Technology, Inc.**, and its successors or assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I hereby authorize and request the Patent and Trademark Office officials in the United

States of America and the Patent Office officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said **Zimmer Technology, Inc.**, as the assignee of my entire right, title and interest in and to the same, for the sole use and enjoyment of said **Zimmer Technology, Inc.**, its successors and assigns.

Further, I agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as said **Zimmer Technology, Inc.**, its successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America and/or in any foreign country, and/or to hold, enforce or convey said Letters Patent, reissues or extensions.

  
Jeffrey P. Anderson

  
Date

4001-0040 (ZM0660) Assignment of Patent Application (Anderson) 04-09-05

**ASSIGNMENT**

WHEREAS, I, **Michael E. Hawkins**, residing at **2350 West 350 South, Columbia City, IN 46725**; **Todd S. Johnson**, residing at **12733 Covington Manor Farms Road, Fort Wayne, IN 46814**; **Oludele Popoola**, residing at **50531 Prestonwood Ct., Granger, IN 46530**; **Jeffrey P. Anderson**, residing at **3739 N. Lancaster Ct., Warsaw, IN 46582**; and **H. Ravindranath Shetty**, residing at **2740 Ivywood Drive, Warsaw, IN 46580**, have invented certain improvements entitled:

**METHOD FOR PRODUCING A ZIRCONIA-LAYERED  
ORTHOPEDIC IMPLANT COMPONENT**

described and claimed in an application for Letters Patent of the United States of America thereon, said application having been **filed contemporaneously herewith** and having been **executed by me contemporaneously herewith**;

WHEREAS, **Zimmer Technology, Inc.**, a corporation organized and existing under the laws of the State of **Illinois**, having a place of business at **150 North Wacker Drive, Suite 1200, Chicago, Illinois 60606**, is to acquire my entire right, title and interest in and to said invention and said application for Letters Patent;

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) to me in hand paid, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I do hereby assign, sell, transfer and set over unto said **Zimmer Technology, Inc.**, its successors and assigns, the full, entire and exclusive right, title and interest, for the territory of the United States of America, Canada and for all other foreign countries, in and to said invention, as described in the application identified above, and in and to said application and any utility patent applications, divisions or continuations or continuations-in-part of this application and of any utility patent applications filed thereon or substitutes therefor which may be filed, and in and to any patents or reissues, renewals or extensions thereof (collectively, the "Application") which may be granted on said Application or for said invention, and in and to any patent application which may be filed on said invention in countries foreign to the United States of America and any patents granted thereon; said invention, Applications, and Letters Patent to be held and enjoyed by said **Zimmer Technology, Inc.**, and its successors or assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

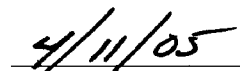
I hereby authorize and request the Patent and Trademark Office officials in the United

States of America and the Patent Office officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said **Zimmer Technology, Inc.**, as the assignee of my entire right, title and interest in and to the same, for the sole use and enjoyment of said **Zimmer Technology, Inc.**, its successors and assigns.

Further, I agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as said **Zimmer Technology, Inc.**, its successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America and/or in any foreign country, and/or to hold, enforce or convey said Letters Patent, reissues or extensions.



Michael E. Hawkins



Date

4001-0040 (ZM0660) Assignment of Patent Application (Hawkins) 04-09-05

**ASSIGNMENT**

WHEREAS, I, **Todd S. Johnson**, residing at **12733 Covington Manor Farms Road, Fort Wayne, IN 46814**; **Oludele Popoola**, residing at **50531 Prestonwood Ct., Granger, IN 46530**; **Jeffrey P. Anderson**, residing at **3739 N. Lancaster Ct., Warsaw, IN 46582**; **Michael E. Hawkins**, residing at **2350 West 350 South, Columbia City, IN 46725**; and **H. Ravindranath Shetty**, residing at **2740 Ivywood Drive, Warsaw, IN 46580**, have invented certain improvements entitled:

**METHOD FOR PRODUCING A ZIRCONIA-LAYERED  
ORTHOPEDIC IMPLANT COMPONENT**

described and claimed in an application for Letters Patent of the United States of America thereon, said application having been **filed contemporaneously herewith** and having been **executed by me contemporaneously herewith**;

WHEREAS, **Zimmer Technology, Inc.**, a corporation organized and existing under the laws of the State of **Illinois**, having a place of business at **150 North Wacker Drive, Suite 1200, Chicago, Illinois 60606**, is to acquire **my** entire right, title and interest in and to said invention and said application for Letters Patent;

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) to me in hand paid, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I do hereby assign, sell, transfer and set over unto said **Zimmer Technology, Inc.**, its successors and assigns, the full, entire and exclusive right, title and interest, for the territory of the United States of America, Canada and for all other foreign countries, in and to said invention, as described in the application identified above, and in and to said application and any utility patent applications, divisions or continuations or continuations-in-part of this application and of any utility patent applications filed thereon or substitutes therefor which may be filed, and in and to any patents or reissues, renewals or extensions thereof (collectively, the "Application") which may be granted on said Application or for said invention, and in and to any patent application which may be filed on said invention in countries foreign to the United States of America and any patents granted thereon; said invention, Applications, and Letters Patent to be held and enjoyed by said **Zimmer Technology, Inc.**, and its successors or assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I hereby authorize and request the Patent and Trademark Office officials in the United



I States of America and the Patent Office officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said **Zimmer Technology, Inc.**, as the assignee of my entire right, title and interest in and to the same, for the sole use and enjoyment of said **Zimmer Technology, Inc.**, its successors and assigns.

Further, I agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as said **Zimmer Technology, Inc.**, its successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America and/or in any foreign country, and/or to hold, enforce or convey said Letters Patent, reissues or extensions.

  
Todd S. Johnson

04/11/2005  
Date

4001-0040 (ZM0660) Assignment of Patent Application (Johnson) 04-09-05

**ASSIGNMENT**

WHEREAS, I, **H. Ravindranath Shetty**, residing at **2740 Ivywood Drive, Warsaw, IN 46580**; **Todd S. Johnson**, residing at **12733 Covington Manor Farms Road, Fort Wayne, IN 46814**; **Oludele Popoola**, residing at **50531 Prestonwood Ct., Granger, IN 46530**; **Jeffrey P. Anderson**, residing at **3739 N. Lancaster Ct., Warsaw, IN 46582**; and **Michael E. Hawkins**, residing at **2350 West 350 South, Columbia City, IN 46725**, have invented certain improvements entitled:

**METHOD FOR PRODUCING A ZIRCONIA-LAYERED  
ORTHOPEDIC IMPLANT COMPONENT**

described and claimed in an application for Letters Patent of the United States of America thereon, said application having been **filed contemporaneously herewith** and having been **executed by me contemporaneously herewith**;

WHEREAS, **Zimmer Technology, Inc.**, a corporation organized and existing under the laws of the State of **Illinois**, having a place of business at **150 North Wacker Drive, Suite 1200, Chicago, Illinois 60606**, is to acquire **my** entire right, title and interest in and to said invention and said application for Letters Patent;

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) to me in hand paid, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I do hereby assign, sell, transfer and set over unto said **Zimmer Technology, Inc.**, its successors and assigns, the full, entire and exclusive right, title and interest, for the territory of the United States of America, Canada and for all other foreign countries, in and to said invention, as described in the application identified above, and in and to said application and any utility patent applications, divisions or continuations or continuations-in-part of this application and of any utility patent applications filed thereon or substitutes therefor which may be filed, and in and to any patents or reissues, renewals or extensions thereof (collectively, the "Application") which may be granted on said Application or for said invention, and in and to any patent application which may be filed on said invention in countries foreign to the United States of America and any patents granted thereon; said invention, Applications, and Letters Patent to be held and enjoyed by said **Zimmer Technology, Inc.**, and its successors or assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I hereby authorize and request the Patent and Trademark Office officials in the United

States of America and the Patent Office officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said **Zimmer Technology, Inc.**, as the assignee of my entire right, title and interest in and to the same, for the sole use and enjoyment of said **Zimmer Technology, Inc.**, its successors and assigns.

Further, I agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as said **Zimmer Technology, Inc.**, its successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America and/or in any foreign country, and/or to hold, enforce or convey said Letters Patent, reissues or extensions.

H. Ravindranath Shetty 4/14/05  
H. Ravindranath Shetty Date

4001-0040 (ZM0660) Assignment of Patent Application (Shetty) 04-09-05