| X New X Assignment Security Agreement Resubmission (Non-Recordation) License Change of Name Document ID# License Change of Name Correction of PTO Error Merger Other Reel # Frame # Departmental File Secret File Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Name (line 1) Crozet , Yves 100699 Name (line 2) Execution Date Month Day Year Name (line 2) Execution Date Month Day Year Name (line 2) Mark if additional names of receiving parties attached is an assignment and the receiving parties attached Name (line 2) Mark if additional names of receiving parties attached is an assignment and the receiving parties attached Name (line 2) Mark if additional names of receiving parties attached if document to be recorde is an assignment and the receiving parties attached Name (line 1) Howmedica Osteonics Corp. If document to be recorde is an assignment and the receiving parties attached Name (line 2) A corporation of New Jersey Other of a domestic | | <u>م محمد بالم المحمد المحمد المحمد المحمد المحمد معمد محمد محمد محمد محمد محمد محمد </u> | | | | | | | |
|---|---------------------------------|---|--|--|----------------------------------|--|--|--|--|
| December 2011 PATENT 101180322 Interpretation of Porter Covers SHEET PATENT Solutions Form Covers SHEET PATENT Solutions Subtrinission Type Conveyance Type Name Conveyance Type Name (ine 2) Security Agreement Corveying Party(les) Mark if additional names of conveying parties attached Name (ine 2) Security Agreement of the Units o | | -1619A | _ | | • | | | | |
| 101180322 RECORDATION FORM COVER SHEET PATENTS ONLY To: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(les)* Submission (Non-Recordation) Document UP Conveyance Type Correction of PTOE Conveying Conveyance Correction of PTOE Correction of PTOE Correctine Ocument Correctine Ocument Correctine Ocument Correctine Ocument Correctine Ocument Scover Timent I Correctine Ocument Correctine Ocument Correctine Ocument Scover Timent I Correctine Ocument Correctine Ocument Reel I Frame # Descret File Conveying Party(ies) Mark if additional names of conveying parties attached Esecution Date Name (ine 2) Second Party Esecution Date Status on appointent of the receiving parties attached Name (ine 2) A corporation of New Jersey Status on appointent of the receiving parties attached Status on appointent of the receiving parties attached Name (ine 3) A corporation of New Jersey Status on appointent of the receiving parties attached Status on appointent of the receiving partis | | | | | PATENT 🛱 🚟 | | | | |
| PATENTS ONLY TO: The Commissioner of Patents and Trademarks: Please record the stached original document(s) or copy(less) Submission Type Convergence Type New Assignment Security Agreement Document DP Corrective OfPTO Error U.S. Government Agreement Read # Frame # U.S. Government Agreement Corrective Document Frame # Departmental File Corrective Document Frame # Departmental File Corrective Document Frame # Departmental File Corrective Document Merger Other Secure File Corrective Document Merger Other Secure File Conveying Party(ies) Mark if additional names of conveying parties attached Iootoby Name (ine 1) Marttin, Crectory Iootoby Iootoby Name (ine 2) Second Party Barnedica Osteonics Oxpp. Iootoby Name (ine 2) Acorporation of New Jersey Mark if additional names of receiving parties attached Second Party Name (ine 2) Acorporation of New Jersey Mark if additional names of receiving parties attached Second Party Name (ine 2) <t< th=""><th></th><th>L</th><th>101180322</th><th></th><th></th></t<> | | L | 101180322 | | | | | | |
| PATEENIS ONLY PATEENIS ONLY PATEENIS ONLY PATEENIS ONLY Submission Type Submission Type Conveyance Type X New Assignment Security Agreement Correction of PTO Error Correction of PTO Error Merger Other Correction of PTO Error Merger U.S. Government, Government, Greened Electron, Security Dy LS. Covernment, Security | | RECORD | | | 25 U | | | | |
| X New X Assignment Security Agreement Document ID# License Change of Name Correction of PTOError Merger Other Corrective Document Frame # Merger Other Corrective Document Frame # Departmental File Security Disconneent Agrecas) Real # Frame # Departmental File Security Disconneent Agrecas) Name (line 1) Crozect , Yves 1006599 Name (line 1) Crozect , Yves 1006599 Name (line 1) Crozect , Yves 1006599 Name (line 2) Esecution Deter Mertin Day Very (Disconneent Agrecas) Esecution Deter Mertin Day Very (Disconneent Agrecas) Name (line 1) Martin, Greegory I006599 Esecution Deter Very (Disconneent Agrecas) Name (line 2) Corporation of New Jersey Goment to be records Goment to be records Varies (line 3) A Corporation of New Jersey Goment to be records Goment to be records Varies (line 3) Allendale NJ Ordo1 Goment to be records Corporation of New Jersey Goment to be records Goment to be records Goment t | | | | | | | | | |
| Resubmission (Non-Recordation) License Change of Name Document ID# License Other Correction of PTO Error Merger Other Reel # Frame # U.S. Government Agencesi Corrective Document Frame # Dopartmental File Corrective Document Frame # Dopartmental File Corrective Document Frame # Dopartmental File Corrective Document Second Party Name (ine 1) Cozet, Yves Mark if additional names of conveying parties stached Second Party Second Party ID0699 Name (ine 2) Second Party ID0699 Name (ine 2) Second Correction Date Mark if additional names of receiving parties attached Name (ine 2) Second Correction of New Jersey ID0699 Name (ine 2) Second correction of New Jersey Second receiving parties attached Name (ine 2) Second correction of New Jersey Second receiving parties attached Name (ine 2) Second correction of New Jersey Second receiving party is not domestic for segmantion of the Segmantion of t | Submission Type Conveyance Type | | | | | | | | |
| Document ID# Document ID# Correction OPTO Error Reel # Frame # Departmental File Corrective Document Reel # Frame # Departmental File Secret File Conveying Party(ies) Mark if additional names of conveying parties attached Secret File Conveying Party(ies) Mark if additional names of conveying parties attached Secret File Conveying Party(ies) Mark if additional names of conveying parties attached Secret File Conveying Party(ies) Mark if additional names of conveying parties attached Secret File Conveying Party(ies) Mark if additional names of conveying parties attached Secret File Conveying Party Mare time 2) Second Party Mark if additional names of conveying parties attached Secret File Conveying Party Mark if additional names of conveying parties attached Month Day Year Month Day Month Day Month Day | | ncion (Non Dependencion) | Assignment | Security Agree | ement | | | | |
| Accel # Frame # S. Government Corrective Document Frame # Corrective Document Reel # Frame # Departmental File Corrective Document Secret File Name (ine 1) Corrective Document Mark (ine 2) Execution Date Receiving Party Inotés 2 Name (ine 2) Execution Date Receiving Party Mark if additional names of receiving parties attached Name (ine 2) If document to be record Name (ine 3) A corporation of New Jersey States component and the resolving parties attached For security is not document for Assignation must be aspareat document for Assignation must be assignation mus | | | License | Change of Nar | ne | | | | |
| Corrective Document Rel # Frame # Departmental File Screet File Conveying Party(ies) Mark if additional names of conveying parties attached Screet File Name (ine 1) Crozet, Yves Name (ine 1) Crozet, Yves Name (ine 1) Mark if additional names of conveying parties attached Screet Party Name (ine 2) Execution Date Month Day Ver Receiving Party Inditional names of receiving parties attached Name (ine 2) Receiving Party Mark if additional names of receiving parties attached Name (ine 2) Receiving Party Mark if additional names of receiving parties attached Name (ine 2) Receiving Party Mark if additional names of receiving parties attached Name (ine 2) Name (ine 2) Indicate States Name (ine 2) States Address (ine 2) States Address (ine 3) Allendale Not States Address (ine 3) Allendale Address (ine 3) States Address (ine 4) FOR OFFICE USE ONLY Poace bander reporting for this col | | | Merger | | | | | | |
| Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Name (line 1) C:Ozet, Yves 100699 Name (line 2) Execution Date Second Party Interview Execution Date Name (line 2) Execution Date Execution Date Name (line 2) Execution Date Execution Date Name (line 2) Interview Interview Interview Receiving Party Mark if additional names of receiving parties attached If document to be recorded Name (line 2) Interview Interview Interview Receiving Party Mark if additional names of receiving parties attached If document to be recorded Name (line 2) Interview Interview Interview Name (line 2) A corporation of New Jersey State, an appointer State, an appointer Address (line 2) Interview State, an appointer of a domestic Cine 2) State, an appointer of a domestic representative is attached Address (line 3) Allendale NJ O7401 State, an appointer Address (line 3) Address (line 3) Address (l | Correctiv | e Document | | e ONLY by U.S. Government | | | | | |
| Name (line 2) Execution Date Second Party Execution Date Name (line 2) IO0699 Receiving Party IO0699 Name (line 2) IO0699 Receiving Party Mark if additional names of receiving parties attached Name (line 2) Mark if additional names of receiving parties attached Name (line 2) Corporation of New Jersey Name (line 2) Corporation of New Jersey Name (line 2) Corporation of New Jersey Address (line 2) Size(Counto Address (line 2) Size(Counto Address (line 3) Allendale Address (line 3) Allendale Address (line 3) Allendale Address (line 4) For OfFrice USE ONLY For OfFrice USE ONLY For Offrice USE ONLY | | | | | | | | | |
| Name (line 2) Execution Date Month Day Year Second Party Name (line 1) Martin, Creegory 100699 Name (line 2) Intervention Date Month Day Year Receiving Party Mark if additional names of receiving parties attached is an assignment and the receiving parties attached is an assignment and the voltage of the units of the units attached is an assignment and the voltage of the units of a domestic repertation of New Jersey Name (line 2) A corporation of New Jersey Address (line 2) Intervention of the units of the units of a domestic repertation is attached (Designation must be a separate document for Assignment,) Address (line 2) Intervention of the units | Name (line 1) | - | | names of conveying part | Month Day Year | | | | |
| Second Party Execution Date Month Dary Year Name (line 1) Martin, Gregory Name (line 2) 100699 Receiving Party Mark if additional names of receiving parties attached Name (line 2) If document to be recorded is an assignment and the united of a comportation of New Jersey V/0/1509 MPS (IDPLS) Comportation of New Jersey Address (line 2) State an appointment from Assignment, or assignment, | | Clozet, ives | | | | | | | |
| Name (line 2) Mark if additional names of receiving parties attached Receiving Party Mark if additional names of receiving parties attached Name (line 1) Hownedica Osteonics Corp. Name (line 2) A corporation of New Jersey /20/1999 MCDPLES Overgration of New Jersey /20/1999 MCDPLES Overgration of New Jersey /20/1999 MCDPLES Overgration of New Jersey /20/1999 MCDPLES Overgratine in the United States, an appointment of a domesic in the United States, an appointment of a domesic in the United States, an appointment of a domesic must be a separate document from Assignment./ Address (line 2) Allendale NJ O7401 Address (line 3) Allendale NJ O7401 City State/Country Zp Coge Domestic Representative Name and Address Enter for the first Receiving Party only. Name Address (line 1) Address (line 3) Address (line 4) FOR OFFICE USE ONLY Polic burden reporting for this collection of information is estimated to servere approximate approximation office, function office, function of momenter and approximation office, function office, func | | | ······································ | ······································ | Execution Date Month Day Year | | | | |
| Receiving Party Mark if additional names of receiving parties attached Name (ime 1) Howmedica Osteonics Corp. If document to be recorded Name (ime 2) A corporation of New Jersey If document to be recorded /20/19/9 MPC0PLS, 0000996 n200096 n20000000 n200000000000000000000000000 | Name (line 1) | Martin, Gregory | | | 100699 | | | | |
| Name (line 1) Howmedica Osteonics Corp. Name (line 1) Howmedica Osteonics Corp. Name (line 2) A corporation of New Jersey Address (line 2) Corporation of New Jersey Address (line 3) Allendale Address (line 3) Allendale Coly State/Country Coly State/Country Coly State/Country Address (line 3) Allendale Name State/Country Address (line 3) Allendale Name State/Country Address (line 3) Allendale Coly State/Country Name Coly Address (line 2) Coly Address (line 3) Allendale Address (line 4) Coly FOR OFFICE USE ONLY For office Use only FOR OFFICE USE ONLY Public burden reporting for this collection of information is astimated to average approximately 20 minutes per Cover Sheet to be recorded. Including time for reviewing the document an appending the burden stimate on the Use average approximately 20 minutes per Cover Sheet to be recorded. Including time for reviewing the document an appending the burden stimate on the Use average approximately 20 minutes per Cover Sheet to be recorded. Including time for review | Name (line 2) | | | | | | | | |
| Name (ine i) Homiteduce Oscephiles (opp, Name (ine i) A corporation of New Jersey 20/1999 NPC01ES 0000956 http://www.internation.org/internaternation.org/internateration.org/internation.org/internation.org/ | Receiving P | arty | Ma | ark if additional names of | receiving parties attached | | | | |
| Name (line 2) A corporation of New Jersey domesle 20/1990 MPCRES 0000000 Tables 100444272 domesle Address (line 2) 40,00 EH a domesle Address (line 2) Allendale NJ 07401 City State(Country 07401 zip Code Domestic Representative Name and Address Enter for the first Receiving Party only. Name Address (line 3) Address (line 4) Address (line 3) For OFFICE USE ONLY FOR OFFICE USE ONLY For oresentation of reversing the document of the formation of the submated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and splatory office. Use ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and approximately 30 minutes per Cover Sheet to be reco | Name (line 1) | Howmedica Osteonics Cor | p |] | - | | | | |
| H: 5381 40.00 () (Designation must be a separate document from Assignation must be a separate document from Assignment.) Address (line 3) Allendale NJ 07401 Address (line 3) Allendale NJ 07401 City State/Country Zip Coge Domestic Representative Name and Address Enter for the first Receiving Party only. Name | | | rsey | | domiciled in the United | | | | |
| Address (line 2) separate document from Assignment.) Address (line 3) Allendale NJ 07401 City State/Country Zup Code Domestic Representative Name and Address Enter for the first Receiving Party only. Name | Address (line 1) | 0000056 RS1922 109414272 | |] | representative is attached. | | | | |
| City State/Country Zip Code Domestic Representative Name and Address Enter for the first Receiving Party only. Name | | .00 CH | | | separate document from | | | | |
| Domestic Representative Name and Address Enter for the first Receiving Party only. Name | Address (line 3) | Allendale | NJ | 07401 | - | | | | |
| Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY | Domestic Re | | dress | | | | | | |
| Address (line 2) Address (line 3) Address (line 3) Address (line 4) FOR OFFICE USE ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document an gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer. Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0851-0027), Washington, D.C. 2050. See OMB | Name | - | | |] | | | | |
| Address (line 2) Address (line 3) Address (line 3) Address (line 4) FOR OFFICE USE ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document an gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 2021 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0451-0027), Washington, D.C. 2053. See OMB | | | ······· | | | | | | |
| Address (line 3) Address (line 4) FOR OFFICE USE ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document an gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0851-0027), Washington, D.C. 2050. | | | | | | | | | |
| Address (line 4) FOR OFFICE USE ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document an gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB | Address (line 2) | | | | | | | | |
| FOR OFFICE USE ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document an gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB | Address (line 3) | | | | | | | | |
| Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document an gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB | Address (line 4) | | | | | | | | |
| gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB | FOR OFFICE USE ONLY | | | | | | | | |
| gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB | | | | | | | | | |
| gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB | | | | | | | | | |
| | D.C. 20231 and to the | Office of Information and Regulatory Affairs, Office of | Management and Budget, Paperwo | rk Reduction Project (0651-0027), | Washington, D.C. 20503. See OMB | | | | |
| Mail documents to be recorded with required cover sheet(s) information to: | | Mail documents to be recorde | d with required cover s | sheet(s) information to |): | | | | |

REEL: 010317 FRAME: 0528

.

| FORM PTO Expres 06/30/99 OMB 0651-0027 | -1619E | Page 2 | U.S. Department of Commerce Patent and Trademark Office PATENT | | | |
|---|---|---|--|--|--|--|
| Correspond | ent Name and Address | Area Code and Telephone Number | 908-654-5000 | | | |
| Name | Lenner, David, Littenbe | erg, Krumholz & Mentlik, LLP | | | | |
| Address (line 1) | | | | | | |
| Address (line 2) | 600 South Avenue West | | | | | |
| Address (line 3) | Westfield, NJ 07090-14 | 97 | | | | |
| Address (line 4) | | | | | | |
| Pages | Enter the total number of page including any attachments. | es of the attached conveyance docum | ent # 1 | | | |
| Enter either th Pate | nt Application Number(s) | ent Number (DO NOT ENTER BOTH numbers f | Number(s) | | | |
| Deposit / | f Payment: Enclose Account ayment by deposit account or if addition | Properties Listed (37 CFR 3.41): \$ ed Deposit Account nal fees can be charged to the account.) posit Account Number: # | 40.00 | | | |
| | | horization to charge additional fees: | Yes No X | | | |
| 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. Charges to deposit account are authorized, as indicated herein. | | | | | | |
| Michael | J. Doherty J. Poherty of Person Signing | Multar Monty Signature | 100799 Date | | | |

PATENT REEL: 010317 FRAME: 0529 U.S. Patent Application Notary

ASSIGNMENT

WHEREAS, Yves Crozet, a citizen of France, residing at 403 Washington Drive, Ramsey, NJ 07446; and Gregory Martin, a citizen of the United States, residing at 333 West 86th Street, #805, New York, New York 10024 as assignors, have invented improvements in

SLOTTED HEAD PEDICLE SCREW ASSEMBLY

for which an Application for United States Letters Patent has been executed by me on October 6 1999.

for which U.S. Application No. for Letters Patent was filed in the U.S. Patent and Trademark Office on .

for which an International Application was filed on PCT/ , designating the United States.

AND WHEREAS, HOWMEDICA OSTEONICS CORP. a corporation of the State of New Jersey, having a place of business at 59 Route 17, Allendale, New Jersey 07401, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Letters Patent that may be granted therefor.

Now, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I as assignor hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And we do hereby authorize our attorneys, to insert on this deed the filing date and application number of said application when known.

<u>Date</u>

COUNTY OF BERGEN

YVES CROZET

GREGORY MARTIN

On this G^{+H} day of G^{-H} , 1999, before me appeared Yves Crozet and Gregory Martin, the persons who signed this instrument, who acknowledged that the same was executed by them of their own free will for the purposes therein set forth.

Notary Public BOSERT A KUCH

Notary Public TOOSERT A KUCH 220267 LDOC AN A THORNEY AT LAW PATENT RECORDED: 10/07/1999 THE STATE OF NEW JREEL! 010317 FRAME: 0530