

## PATENT ASSIGNMENT

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                    |
| CONVEYING PARTY DATA   |                               |
| Name   | Execution Date                |
| Benjamin Heneveld  | 06/21/2013                    |
| RECEIVING PARTY DATA   |                               |
| Name:  | Mikro Systems, Inc.           |
| Street Address:  | 1180 Seminole Trail Suite 220 |
| City:  | Charlottesville               |
| State/Country:   | VIRGINIA                      |
| Postal Code:   | 22901                         |
| PROPERTY NUMBERS Total: 1  |                               |
| Property Type  | Number                        |
| Application Number:  | 13658045                      |
| CORRESPONDENCE DATA  |                               |
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| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>                                       |                               |
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| Email:   | Mike@michaelhaynes.com        |
| Correspondent Name:  | Michael Haynes PLC            |
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| Address Line 4:  | Keswick, VIRGINIA 22947       |
| ATTORNEY DOCKET NUMBER:  | 1021-100                      |
| NAME OF SUBMITTER:   | Kelly Smoker                  |
| Signature:   | /Kelly Smoker/                |
| Date:  | 08/09/2013                    |
| Total Attachments: 2<br>source=1021-100_20130809_Assignment-S#page1.tif<br>source=1021-100_20130809_Assignment-S#page2.tif |                               |

OP \$40.00 13658045

ASSIGNMENT AND AGREEMENT

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1021-100

For the sum of One Dollar (US\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) Benjamin Heneveld of 44 Elm Street, Newmarket, NH US 03857 (referred to herein as "the undersigned") hereby sells, assigns, and transfers to Mikro Systems, Inc., an entity organized and existing under the state laws of Delaware having Principal place of business at 1180 Seminole Trail, Suite 220, Charlottesville, VA 22901, and its successors, assigns, and legal representatives (hereinafter "ASSIGNEE"), the entire and exclusive rights, privileges, title, and interest, worldwide, in and to all of the following:

Non-Provisional United States Patent Application 13/658,045, titled "Casting Core for a Cooling Arrangement for a Gas Turbine Component", and filed on 23 October 2012 in the United States Patent and Trademark Office;

together with: all subject matter described or claimed therein; all improvements to any subject matter described or claimed therein; all amendments thereto; all rights of priority arising therefrom; all applications claiming priority thereto; all divisions, continuations, continuations-in-part, reexaminations, reissues, substitutes, renewals, and extensions thereof, and any legal equivalent thereof; and any and all forms of protection, including Letters Patent and legal equivalents thereof, which may be granted therefor in the United States and its territorial possessions or in any countries foreign to the United States, for the full and entire term or terms for which the same may be granted or extended, as fully and entirely as the same rights, privileges, title, and interest, would have been enjoyed by the undersigned if this assignment had not been made, including the right to sue in Assignee's own name for any and all past, present, and future infringements.

Each of the undersigned authorizes ASSIGNEE to make application for patent protection and legal equivalents thereof in its own name and maintain such protection in the United States and in all countries foreign to the United States, and to invoke and claim for any application for patent or legal equivalents thereof for said improvements, without further authorization from any of the undersigned, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

Each of the undersigned authorizes and requests the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereof, to issue said Letters Patent and legal equivalents thereof to ASSIGNEE or to such nominees as ASSIGNEE may designate.

Each of the undersigned consents that a copy of this Assignment and Agreement shall be deemed a full legal and formal equivalent of any document that may be required in any country in proof of the right of ASSIGNEE to apply for patent and legal equivalents thereof for said improvements and to claim the aforesaid benefit of the right of priority.

Each of the undersigned covenants with ASSIGNEE that no assignment, sale, encumbrance, grant, mortgage, license, or other agreement affecting any of the rights, privileges, title, or interest herein conveyed has been made to others or will be entered into by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

ASSIGNMENT AND AGREEMENT

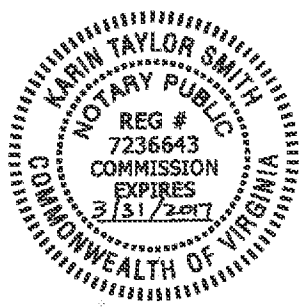
Each of the undersigned covenants with ASSIGNEE that, when requested, and without charge to but at the expense of ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, the undersigned will: properly receive, execute, and deliver to ASSIGNEE all rightful affidavits, declarations, oaths, powers of attorney, assignments, and other instruments or papers; properly receive, execute, and deliver to ASSIGNEE all applications, divisions, continuations, continuations-in-part, reexaminations, reissues, substitutes, renewals, extensions, any amendments thereof, and any legal equivalent thereof, and all interference proceedings associated therewith, relating to any and all said improvements, applications, Letters Patent, and legal equivalents thereof; communicate to ASSIGNEE all facts and documents known and accessible to the undersigned relating to said improvements, applications, Letters Patent, and legal equivalents thereof, and will testify as to the same in any interference, mediation, arbitration, litigation, or dispute related thereto; and generally, perform all requested lawful acts that ASSIGNEE considers desirable or necessary, in any country, in applying for, securing, maintaining, licensing, assigning, or enforcing, any proper, valid, and enforceable legal protection for said improvements, applications, Letters Patent, and legal equivalents thereof, or for vesting title in ASSIGNEE to said improvements, applications, Letters Patent, and legal equivalents thereof.

Date: June 21, 2013

Benjamin Heneveld  
Benjamin Heneveld

)  
State of Virginia )  
County of Albemarle )  
City of \_\_\_\_\_ )

On this 21st day of June, 2013, before me personally came Benjamin Heneveld, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Karin Taylor Smith  
Notary Public