

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRETT JOHN FRANCIS	06/15/2018
HUGO JOUBERT	09/25/2018
MARTIN LLUIS BAKKER	07/17/2018
STANKO NIKOLIC	06/15/2018
STEPHEN GWYNN-JONES	09/19/2018
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
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<b>ATTORNEY DOCKET NUMBER:</b>	4207.0010001
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<b>DATE SIGNED:</b>	09/27/2018

**Total Attachments: 3**

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### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: **Brett John FRANCIS, Hugo JOUBERT, Martin Lluís BAKKER, Stanko NIKOLIC, and Stephen GWYNN-JONES**, hereby sell and assign to **Tenova South Africa (Pty) Ltd**, a private limited company formed under the laws of Republic of South Africa, whose mailing address is 96 Loper Avenue, Aeroport Spartan, 1643, Johannesburg, South Africa (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as **Method of Operating a Top Submerged Lance Furnace** for which application(s) for patent in the United States of America has a filing date or a 371(c) date of June 8, 2018 (also known as United States Application No. 16/060,632), which is the U.S. National Stage of International Application No. PCT/IB2016/057462, International Filing Date December 9, 2016), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in each of the patents and patent applications that are listed in Schedule A, which is annexed hereto and made a part hereof, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a) and the patents and patent applications listed in Schedule A, including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a) and the patents and patent applications listed in Schedule A, to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a) and the patents and patent applications listed in Schedule A, and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the undersigned inventors had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any judicial or administrative proceeding, including but not limited to an interference, derivation, post-grant proceeding, or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof or Letters Patent(s) therefor and to cooperate with the Assignee in every way possible in obtaining evidence and assisting with such judicial or administrative proceeding.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with **CUSTOMER NUMBER 26111** the power to insert in this assignment, including the attached Schedule A, any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

The undersigned inventors hereby represent that he/she understands that the patent practitioners associated with **CUSTOMER NUMBER 26111** are the legal representatives of, and attorneys for, the assignee, and are NOT the legal representatives of, and attorneys for, the inventors.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 15/06/2018 Signature of Inventor: Bj Francis  
Brett John FRANCIS

Date: 25/9/18 Signature of Inventor: H. Joubert  
Hugo JOUBERT

Date: 17/9/2018 Signature of Inventor: M. L. Bakker  
Martin Lluís BAKKER

Date: 15/06/2018 Signature of Inventor: Stanko Nikolic  
Stanko NIKOLIC

Date: 19/9/2018 Signature of Inventor: Stephen Gwynn-Jones  
Stephen GWYNN-JONES

Appl. No. \_\_\_\_\_  
Atty. Docket No. 4207.0010001

**SCHEDULE A**

**UNITED STATES PATENTS, UNITED STATES PATENT APPLICATIONS AND  
INTERNATIONAL APPLICATIONS THAT DESIGNATE THE UNITED STATES**

<u>Application No.</u>	<u>Filing Date</u>	<u>Patent No.</u>	<u>Issue Date</u>
PCT/IB2016/057462	December 9, 2016		

**OTHER INTERNATIONAL APPLICATIONS AND PATENTS**

<u>Country</u>	<u>Application No.</u>	<u>Filing Date</u>
ZA	2015/08993	December 9, 2015

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