

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7834518

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KRISHNA P. SINGH	11/09/2012
PATRICK INGRAVALLO	11/13/2012
LEYLAND VANN	11/07/2012
JOSEPH GERALD LEO RAJKUMAR	11/05/2012
INDRESH RAMPALL	06/04/2013
P. STEFAN ANTON	01/08/2015
PETER STEFANOVIC	01/09/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SMR INVENTEC, LLC
<b>Street Address:</b>	ONE HOLTEC BOULEVARD
<b>City:</b>	CAMDEN
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	08104
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17081753
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)735-9305
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	2157359302
<b>Email:</b>	uspto@thebellesgroup.com
<b>Correspondent Name:</b>	THE BELLES GROUP, P.C.
<b>Address Line 1:</b>	1800 JOHN F. KENNEDY BOULEVARD, SUITE 1010
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	HOL-066-US-M
<b>NAME OF SUBMITTER:</b>	OLIVIA BOLDUC
<b>SIGNATURE:</b>	/Olivia Bolduc/
<b>DATE SIGNED:</b>	03/08/2023

**Total Attachments: 24**

source=HOL-066-US-M-Assignment#page1.tif  
source=HOL-066-US-M-Assignment#page2.tif  
source=HOL-066-US-M-Assignment#page3.tif  
source=HOL-066-US-M-Assignment#page4.tif  
source=HOL-066-US-M-Assignment#page5.tif  
source=HOL-066-US-M-Assignment#page6.tif  
source=HOL-066-US-M-Assignment#page7.tif  
source=HOL-066-US-M-Assignment#page8.tif  
source=HOL-066-US-M-Assignment#page9.tif  
source=HOL-066-US-M-Assignment#page10.tif  
source=HOL-066-US-M-Assignment#page11.tif  
source=HOL-066-US-M-Assignment#page12.tif  
source=HOL-066-US-M-Assignment#page13.tif  
source=HOL-066-US-M-Assignment#page14.tif  
source=HOL-066-US-M-Assignment#page15.tif  
source=HOL-066-US-M-Assignment#page16.tif  
source=HOL-066-US-M-Assignment#page17.tif  
source=HOL-066-US-M-Assignment#page18.tif  
source=HOL-066-US-M-Assignment#page19.tif  
source=HOL-066-US-M-Assignment#page20.tif  
source=HOL-066-US-M-Assignment#page21.tif  
source=HOL-066-US-M-Assignment#page22.tif  
source=HOL-066-US-M-Assignment#page23.tif  
source=HOL-066-US-M-Assignment#page24.tif

ASSIGNMENT

WHEREAS, I, Krishna P. Singh (hereinafter the "Assignor,"), residing at 202 Gomez Road, Hobe Sound, FL 33455, am the sole inventor of certain inventions or improvements for which I have made application for Letters Patent, entitled Metal Containment for Nuclear Reactors, filed as U.S. Provisional Patent Application Serial No. 61/649,593 on May 21, 2012;

WHEREAS, Holtec International, Inc., a Delaware corporation (hereinafter the "Assignee") of 555 Lincoln Drive, Marlton, NJ 08054, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said Assignor, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and I agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

**PATENT**

AND, I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

11/9/2012  
Date

Krishna P. Singh  
Krishna P. Singh  
Inventor

ASSIGNMENT & DECLARATION

WHEREAS, We, P. Stefan Anton, and Peter Stefanovic (hereinafter the "Assignors"), residing at 251 New Freedom Road, Southampton, NJ 08088, and P.O. Box 1288, Langhorne, PA 19047 (respectively), believe we are the original joint inventors of certain inventions or improvements claimed and/or disclosed in an application(s) for Letters Patent which we have made, entitled NUCLEAR FUEL CORE, NUCLEAR FUEL CARTRIDGE, AND METHODS OF FUELING AND/OR DEFUELING A NUCLEAR REACTOR, which is being filed as a National Stage Entry Application in the United States from International Application No. PCT/US2013/049722, filed July 9, 2013; and

WHEREAS, the above-identified application was made or authorized to be made by us.

WHEREAS, we hereby acknowledge that any willful false statement made in this Assignment & Declaration is punishable under 18 U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, SMR Inventec, LLC (hereinafter the "Assignee"), of One Holtec Drive, Marlton, NJ 08053, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries, including the right to file, prosecute and to otherwise pursue said applications, in the name of Assignee as Applicant, and to said inventions or improvements in any and all jurisdictions.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, We, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file prosecute and otherwise pursue, in the name of Assignee as Applicant, applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND We hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all

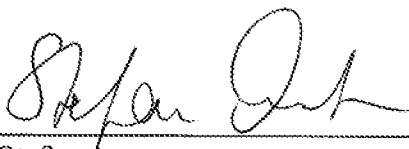
PATENT

rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of Assignee.

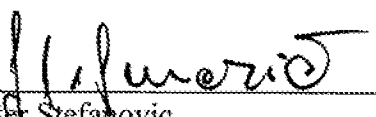
AND, We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, We have hereunto set our hand and seal.

1/8/2015  
Date

  
P. Stefan Anton  
Inventor

1/9/2015  
Date

  
Peter Stefanovic  
Inventor

ASSIGNMENT

WHEREAS, I, Krishna P. Singh (hereinafter the "Assignor,"), residing at 202 Gomez Road, Hobe Sound, FL 33455, am the sole inventor of certain inventions or improvements for which I have made application for Letters Patent, entitled Nuclear Reactor Core Geometry for Improved Performance, filed as U.S. Provisional Patent Application Serial No. 61/669,428 on July 9, 2012;

WHEREAS, Holtec International, Inc., a Delaware corporation (hereinafter the "Assignee") of 555 Lincoln Drive, Marlton, NJ 08054, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said Assignor, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and I agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

**PATENT**

AND, I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

11/9/2012  
Date

Krishna P. Singh  
Krishna P. Singh  
Inventor



ASSIGNMENT

WHEREAS, We, Krishna P. Singh, Patrick Ingravallo, and Leyland Vann (hereinafter the "Assignor,"), residing at 202 Gomez Road, Hobe Sound, FL 33455; 204 Kingsley Court, Mount Laurel, NJ 08054; and 106 Lupine Lane, Carney's Point, NJ 08069, are the inventors of certain inventions or improvements for which we have made applications for Letters Patent, entitled A Fail-Safe Control Rod Drive System (CRDS) for Nuclear Reactors, filed as U.S. Provisional Patent Application Serial No. 61/680,133 on August 6, 2012;

WHEREAS, Holtec International, Inc. a Delaware corporation (hereinafter the "Assignee") of 555 Lincoln Drive West, Marlton, NJ 08054, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

PATENT

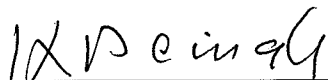
AND, we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

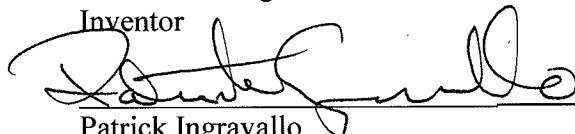
IN WITNESS WHEREOF, we have hereunto set my hand and seal.

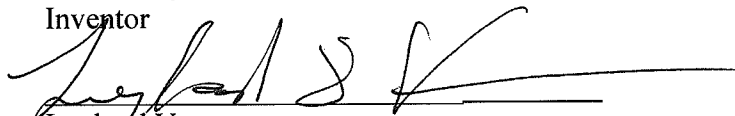
11/13/2012  
Date

11/7/2012  
Date

11/7/2012  
Date

  
Krishna P. Singh  
Inventor

  
Patrick Ingravallo  
Inventor

  
Leyland Vann  
Inventor

ASSIGNMENT

WHEREAS, We, Krishna P. Singh and Joseph Rajkumar (hereinafter the "Assignor,"), residing at 202 Gomez Road, Hobe Sound, FL 33455 and 100 Conestoga Drive, Apartment 202, Marlton, NJ 08053, are the inventors of certain inventions or improvements for which we have made applications for Letters Patent, entitled Start-Up System for a Nuclear Steam Supply System, filed as U.S. Provisional Patent Application Serial No. 61/683,021 on August 14, 2012;

WHEREAS, Holtec International, Inc. a Delaware corporation (hereinafter the "Assignee") of 555 Lincoln Drive West, Marlton, NJ 08054, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

**PATENT**

AND, we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, we have hereunto set my hand and seal.

11/5/2012  
Date

11-05-2012  
Date

Krishna P. Singh  
Inventor

Joseph Rajkumar  
Inventor

ASSIGNMENT

WHEREAS, We, Krishna P. Singh and Joseph Rajkumar (hereinafter the "Assignors"), residing at 202 Gomez Road, Hobe Sound, FL 33455 and 100 Conestoga Drive, Apartment 202, Marlton, NJ 08053, are the inventors of certain inventions or improvements for which we have made applications for Letters Patent, entitled SHUTDOWN SYSTEM FOR A NUCLEAR STEAM SUPPLY SYSTEM, filed as U.S. Provisional Patent Application Serial No. 61/709,436 on October 4, 2012;

WHEREAS, Holtec International, Inc. a Delaware corporation (hereinafter the "Assignee") of 555 Lincoln Drive West, Marlton, NJ 08054, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

**PATENT**

AND, we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, we have hereunto set my hand and seal.

Dec 18, 2012  
Date

K P Singh  
Krishna P. Singh  
Inventor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Joseph Rajkumar  
Inventor

**PATENT**


AND, we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, we have hereunto set my hand and seal.

\_\_\_\_\_  
Date

12/19/2012  
Date

\_\_\_\_\_  
Krishna P. Singh  
Inventor

  
\_\_\_\_\_  
Joseph Rajkumar  
Inventor

**ASSIGNMENT & DECLARATION**

WHEREAS, We, Krishna P. Singh, Indresh Rampall, and Joseph Rajkumar (hereinafter the "Assignors"), residing at 202 Gomez Road, Hobe Sound, FL 33455; 353 Tuvira Lane, Cherry Hill, NJ 08003; and 100 Conestoga Drive, Apt. #202, Marlton, NJ 08053 (respectively), believe we are the original joint inventors of certain inventions or improvements claimed and/or disclosed in an application(s) for Letters Patent which we have made, entitled A DEGRADATION IMMUNE REACTOR SHROUD AND WATER LINED VESSEL, VESSEL PENETRATIONS AND PIPING RUNS, filed as U.S. Provisional Patent Application Serial No. 61/770,213 on February 27, 2013; and

WHEREAS, the above-identified application was made or authorized to be made by us.

WHEREAS, we hereby acknowledge that any willful false statement made in this Assignment & Declaration is punishable under 18 U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, Holtec International, Inc. (hereinafter the "Assignee"), of 555 Lincoln Drive West, Marlton, NJ 08054, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, We, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND We hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors,



**PATENT**

assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of Assignee.

AND, We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, We have hereunto set our hand and seal.

6/4/2013  
Date

Krishna P Singh  
Krishna P. Singh  
Inventor

6/4/2013  
Date

Indresh Rampall  
Indresh Rampall  
Inventor

06/04/2013  
Date

Rajkumar  
Joseph Rajkumar  
Inventor

**ASSIGNMENT & DECLARATION**

WHEREAS, We, Krishna P. Singh and Joseph Rajkumar (hereinafter the "Assignors"), residing at 202 Gomez Road, Hobe Sound, FL 33455 and 100 Conestoga Drive, Apartment 202, Marlton, NJ 08053, (respectively), believe we are the original joint inventors of certain inventions or improvements claimed and/or disclosed in an application(s) for Letters Patent which we have made, entitled "LOCA Recovery System", filed concurrently herewith; and

WHEREAS, the above-identified application was made or authorized to be made by us.

WHEREAS, we hereby acknowledge that any willful false statement made in this Assignment & Declaration is punishable under 18 U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, Holtec International (hereinafter the "Assignee"), of 555 Lincoln Drive West, Marlton, NJ 08053, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, We, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND We hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of Assignee.

PATENT

AND, We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, We have hereunto set our hand and seal.

5/28/2013  
Date

*K P Singh*

\_\_\_\_\_  
Krishna P. Singh  
Inventor

5/28/2013  
Date

*J Rajkumar*

\_\_\_\_\_  
Joseph Rajkumar  
Inventor

**ASSIGNMENT**

WHEREAS, Holtec International, Inc., (hereinafter the "Assignor") of 555 Lincoln Drive West, Marlton, NJ 08054, a U.S. corporation, owns by assignment or otherwise, all right, title, and interest in applications for Letters Patent as set forth in the attached Schedule A; and

WHEREAS, SMR, LLC, (hereinafter the "Assignee"), a U.S. corporation, having an office located at 1001 N. US Highway 1, Jupiter, FL 33477, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications of Schedule A, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

WHEREAS, Assignor has agreed to assign all of its right, title, and interest in the inventions or improvements to Assignee, and Assignee has agreed to receive all of said right, title, and interest in the said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, in any and all countries, from Assignor, wherein the parties wish to further carry out this intent as set forth herein;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, said Assignor, has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by the Assignor had this assignment, sale and transfer not been made.

AND Assignor hereby covenants that Assignor has full right to convey the entire interest herein assigned and that Assignor has not executed and will not execute any agreement in conflict herewith, and Assignor further covenants and agrees that Assignor will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and Assignor agrees to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to

obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

AND, Assignor HEREBY further agrees that, from and after the date of this Assignment, Assignee has succeeded to all of Assignor's right, title, interest and standing to receive all rights and benefits pertaining to said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, institute and prosecute all suits and proceedings, take all actions that Assignor, in its sole discretion, may deem necessary or proper to collect, assert, or enforce any claim, right, title or interest of any kind under any and all of the said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including, without limitation, the right to sue for all past, present and future infringements or other violations of any rights relating thereto, to settle, defend, compromise and retain proceeds from any actions, suits, or proceedings relating to the transferred and assigned rights, title, interest, and benefits, in any and all countries, and do all other such acts and things in relation thereto as Assignor, in its sole discretion, deems advisable;

AND, Assignor HEREBY relinquishes exclusivity to Assignee all of Assignor's right, title and interest in and to all accrued and future causes of action for injunctive relief, damages, lost profits and litigation costs (including, without limitation, attorneys' fees) resulting from infringements or alleged infringements of the said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent and this Assignment expressly includes the right to sue for pre-assignment infringements and any injunctive relief, damages, lost profits and litigation costs (including, without limitation, attorneys' fees) in connection with the same in any and all countries;

AND, Assignor HEREBY further covenants that Assignor has the full right to convey the interest assigned by this Patent Assignment, Assignor will take all action and execute all documents necessary to perfect the interest assigned hereby, and Assignor has not executed and will not execute any agreement in conflict with this Patent Assignment in any country;

AND, Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, each party has caused its authorized representative to execute this Assignment.

HOLTEC INTERNATIONAL, INC.

SMR, LLC

*Id Deingh*  
By: \_\_\_\_\_

*Id Deingh*  
By: \_\_\_\_\_

Title: President and CEO

Title: CEO

Date: January 8, 2014

Date: January 8, 2014

**ASSIGNMENT**

WHEREAS, SMR, LLC, (hereinafter the "Assignor"), a U.S. corporation, having an office located at 1001 N. US Highway 1, Jupiter, FL 33477 (hereinafter the "Assignor"), a U.S. corporation, owns by assignment or otherwise, all right, title, and interest in applications for Letters Patent as set forth in the attached Schedule A; and

WHEREAS, SMR Inventec, LLC, (hereinafter the "Assignee"), a U.S. corporation, having an office located at 555 Lincoln Drive West, Marlton, NJ 08053, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications of Schedule A, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

WHEREAS, Assignor has agreed to assign all of its right, title, and interest in the inventions or improvements to Assignee, and Assignee has agreed to receive all of said right, title, and interest in the said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, in any and all countries, from Assignor, wherein the parties wish to further carry out this intent as set forth herein;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, said Assignor, has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by the Assignor had this assignment, sale and transfer not been made.

AND Assignor hereby covenants that Assignor has full right to convey the entire interest herein assigned and that Assignor has not executed and will not execute any agreement in conflict herewith, and Assignor further covenants and agrees that Assignor will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and Assignor agrees to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to

obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of assignee.

AND, Assignor HEREBY further agrees that, from and after the date of this Assignment, Assignee has succeeded to all of Assignor's right, title, interest and standing to receive all rights and benefits pertaining to said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, institute and prosecute all suits and proceedings, take all actions that Assignor, in its sole discretion, may deem necessary or proper to collect, assert, or enforce any claim, right, title or interest of any kind under any and all of the said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including, without limitation, the right to sue for all past, present and future infringements or other violations of any rights relating thereto, to settle, defend, compromise and retain proceeds from any actions, suits, or proceedings relating to the transferred and assigned rights, title, interest, and benefits, in any and all countries, and do all other such acts and things in relation thereto as Assignor, in its sole discretion, deems advisable;

AND, Assignor HEREBY relinquishes exclusivity to Assignee all of Assignor's right, title and interest in and to all accrued and future causes of action for injunctive relief, damages, lost profits and litigation costs (including, without limitation, attorneys' fees) resulting from infringements or alleged infringements of the said invention or improvement and said applications and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent and this Assignment expressly includes the right to sue for pre-assignment infringements and any injunctive relief, damages, lost profits and litigation costs (including, without limitation, attorneys' fees) in connection with the same in any and all countries;

AND, Assignor HEREBY further covenants that Assignor has the full right to convey the interest assigned by this Patent Assignment, Assignor will take all action and execute all documents necessary to perfect the interest assigned hereby, and Assignor has not executed and will not execute any agreement in conflict with this Patent Assignment in any country;

AND, Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.



IN WITNESS WHEREOF, each party has caused its authorized representative to execute this Assignment.

SMR, LLC

SMR INVENTEC, LLC

*Id Deingh*  
By: \_\_\_\_\_

*Id Deingh*  
By: \_\_\_\_\_

Title: President and CEO

Title: CEO

Date: January 8, 2014

Date: January 8, 2014

SCHEDULE A  
 PATENT ASSIGNMENT: SMR, LLC TO SMR INVENTEC, LLC

SMR-RELATED PATENT PROPERTIES					
Docket No.	Title	Country	Status	App Date	App No
HOL-041-PCT	INHERENTLY SAFE MODULAR REACTOR	PCT	Inactive	07-Feb-11	PCT/US201123952
HOL-041-CN	INHERENTLY SAFE MODULAR REACTOR	China	Pending	07-Feb-11	201180017887 X
HOL-041-EP	INHERENTLY SAFE MODULAR REACTOR	EPO	Pending	07-Feb-11	11740508 4
HOL-041-KR	INHERENTLY SAFE MODULAR REACTOR	Korea (South)	Pending	07-Feb-11	10-2012-7023207
HOL-041-US	INHERENTLY SAFE MODULAR REACTOR (HISMUR)	United States of America	Pending	03-Aug-12	13577163
HOL-061-P	PASSIVE AND SAFE NUCLEAR STEAM SUPPLY SYSTEM	United States of America	Inactive	25-Apr-12	61638257
HOL-061-PCT	NUCLEAR STEAM SUPPLY SYSTEM	PCT	Pending	25-Apr-13	PCT/US13/38289
HOL-062-P	SPACE SAVER BOLTED JOINT FOR THE NUCLEAR REACTOR VESSEL	United States of America	Inactive	04-May-12	61642614
HOL-062-PCT	SPACE SAVER FLANGED JOINT FOR A NUCLEAR REACTOR VESSEL	PCT	Pending	06-May-13	PCT/US13/39743
HOL-063-P	METAL CONTAINMENT FOR NUCLEAR REACTORS	United States of America	Inactive	21-May-12	61649593
HOL-063-PCT	METAL CONTAINMENT FOR NUCLEAR REACTORS	PCT	Pending	21-May-13	PCT/US13/42070
HOL-066-P	NUCLEAR REACTOR CORE GEOMETRY FOR IMPROVED PERFORMANCE	United States of America	Inactive	09-Jul-12	61669428
HOL-066-PCT	NUCLEAR REACTOR CORE GEOMETRY FOR IMPROVED PERFORMANCE	PCT	Pending	09-Jul-13	PCT/US2013/049722
HOL-067-P	A FAIL-SAFE CONTROL ROD DRIVE SYSTEM (CRDS) FOR NUCLEAR REACTORS	United States of America	Inactive	06-Aug-12	61680133
HOL-067-PCT	A FAIL-SAFE CONTROL ROD DRIVE SYSTEM FOR NUCLEAR REACTOR	PCT	Pending	05-Aug-13	PCT/US13/053644
HOL-068-P	START-UP SYSTEM FOR A NUCLEAR SYEAM SUPPLY SYSTEM	United States of America	Inactive	14-Aug-12	61683021
HOL-068-PCT	NUCLEAR STEAM SUPPLY SYSTEM	PCT	Pending	14-Feb-13	PCT/US13/054961
HOL-069-P	PASSIVE AND SAFE SPENT FUEL POOL COOLING SYSTEM FOR SMALL MODULAR NUCLEAR PLANT	United States of America	Inactive	14-Aug-12	61683030
HOL-069-PCT	PASSIVELY-COOLED SPENT NUCLEAR FUEL POOL SYSTEM AND METHOD THEREFOR	PCT	Pending	14-Aug-13	PCT/US13/054973
HOL-070-P	COMPONENT COOLING SYSTEM FOR NUCLEAR POWER PLANTS	United States of America	Inactive	21-Aug-12	61691533
HOL-070-PCT	COMPONENT COOLING WATER SYSTEM FOR NUCLEAR POWER PLANT	PCT	Pending	21-Aug-13	PCT/US13/056023
HOL-073-P	SHUTDOWN SYSTEM FOR A NUCLEAR STEAM SUPPLY SYSTEM	United States of America	Pending	04-Oct-12	61709436
HOL-074-P	POWER CYCLE FOR NUCLEAR REACTORS	United States of America	Pending	25-Oct-12	61718309
HOL-080-P	A DEGRADATION IMMUNE REACTOR SHROUD AND WATER LINED VESSEL, VESSEL PENETRATIONS AND PIPING RUNS	United States of America	Pending	27-Feb-13	61770213
HOL-081-P	GRAVITY DRIVEN (PASSIVE) REACTOR CORE COOLING SYSTEM	United States of America	Pending	28-May-13	61827943
HOL-082-P	LOCA RECOVERY SYSTEM	United States of America	Pending	28-May-13	61828017