

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6815035

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JINUK KIM	06/25/2021
KWANGIL KIM	06/25/2021
JASON KOPKO	06/07/2021
JEFF GREENBERG	07/07/2021
DARRYL ENG	06/11/2021
DAVID DAY	07/14/2021
RECEIVING PARTY DATA	
Name:	DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.
Street Address:	22, DOOSANVOLVO-RO, SEONGSAN-GU
City:	CHANGWON
State/Country:	KOREA, REPUBLIC OF
Postal Code:	51711
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17376497
CORRESPONDENCE DATA	
Fax Number:	(703)992-8124
<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>	
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ATTORNEY DOCKET NUMBER:	40011-1023
NAME OF SUBMITTER:	DONGHEE KANG
SIGNATURE:	/Donghee Kang/
DATE SIGNED:	07/15/2021
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 7

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ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, **DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.** having an address at **22, Doosanvolvo-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51711, Republic of Korea.** (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)

As the below named inventor, I hereby declare that:

This assignment with declaration is ☒ The attached application, or directed to:

☐ United States Application or PCT International Application Number _____ filed on _____.

The application is entitled:

AIRFOIL PROFILE FOR A TURBINE NOZZLE

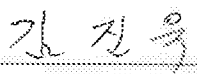

The above identified application was made or was authorized to be made by me.

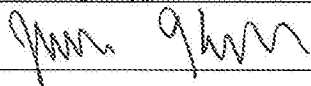

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

NAME OF SOLE OR FIRST INVENTOR:	
Jinuk Given Name (first and middle (if any))	KIM Family Name or Surname
Inventor's signature 	Date 6/25/2021
Residence: Republic of Korea	
Mailing Address: 22, Doosanvolvo-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51711, Republic of Korea	
NAME OF SECOND INVENTOR:	
Kwangil Given Name (first and middle (if any))	KIM Family Name or Surname
Inventor's signature 	Date 6/25/2021
Residence: Republic of Korea	
Mailing Address: 22, Doosanvolvo-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51711, Republic of Korea	
NAME OF THIRD INVENTOR:	
JASON Given Name (first and middle (if any))	KOPKO Family Name or Surname
Inventor's signature	Date
Residence: U.S.A.	
Mailing Address: 109 Wandering Trail Jupiter, FL 33458, USA	
NAME OF FOURTH INVENTOR:	
JEFF Given Name (first and middle (if any))	GREENBERG Family Name or Surname
Inventor's signature	Date
Residence: U.S.A.	
Mailing Address: 2920 SE Bakersfield Street, Port Saint Lucie, FL 34952, USA	
NAME OF FIFTH INVENTOR:	
DARRYL Given Name (first and middle (if any))	ENG Family Name or Surname
Inventor's signature	Date
Residence: U.S.A.	
Mailing Address: 1593 SE Tradition Trace, Stuart, FL 34997, USA	
NAME OF SIXTH INVENTOR:	
DAVID Given Name (first and middle (if any))	DAY Family Name or Surname
Inventor's signature	Date
Residence: U.S.A.	
Mailing Address: 155 Whale Cay Way Jupiter, FL 33458, USA	

NAME OF SOLE OR FIRST INVENTOR:	
Jinuk Given Name (first and middle [if any])	KIM Family Name or Surname
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NAME OF SECOND INVENTOR:	
Kwangil Given Name (first and middle [if any])	KIM Family Name or Surname
Inventor's signature	Date
Residence: Republic of Korea	
Mailing Address: 22, Doosanvolvo-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51711, Republic of Korea	
NAME OF THIRD INVENTOR:	
JASON Given Name (first and middle [if any])	KOPKO Family Name or Surname
Inventor's signature 	Date 6/7/2021
Residence: U.S.A.	
Mailing Address: 109 Wandering Trl Jupiter FL 33458	
NAME OF FOURTH INVENTOR:	
JEFF Given Name (first and middle [if any])	GREENBERG Family Name or Surname
Inventor's signature	Date
Residence: U.S.A.	
Mailing Address: 2920 SE Bakersfield Street, Port Saint Lucie, FL 34952, USA	
NAME OF FIFTH INVENTOR:	
DARRYL Given Name (first and middle [if any])	ENG Family Name or Surname
Inventor's signature 	Date 6/11/2021
Residence: U.S.A.	
Mailing Address: 1593 SE Tradition Trace, Stuart, FL 34997, USA	
NAME OF SIXTH INVENTOR:	
DAVID Given Name (first and middle [if any])	DAY Family Name or Surname
Inventor's signature	Date
Residence: U.S.A.	
Mailing Address: 155 Whale Cay Way Jupiter, FL 33458, USA	

NAME OF SOLE OR FIRST INVENTOR:		
Jinuk Given Name (first and middle [if any])	KIM Family Name or Surname	
Inventor's signature		Date
Residence: Republic of Korea		
Mailing Address: 22, Doosanvolvo-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51711, Republic of Korea		
NAME OF SECOND INVENTOR:		
Kwangil Given Name (first and middle [if any])	KIM Family Name or Surname	
Inventor's signature		Date
Residence: Republic of Korea		
Mailing Address: 22, Doosanvolvo-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51711, Republic of Korea		
NAME OF THIRD INVENTOR:		
JASON Given Name (first and middle [if any])	KOPKO Family Name or Surname	
Inventor's signature		Date
Residence: U.S.A.		
Mailing Address: 109 Wandering Trl, Jupiter, FL 33458		
NAME OF FOURTH INVENTOR:		
JEFF Given Name (first and middle [if any])	GREENBERG Family Name or Surname	
Inventor's signature <i>Jeff Greenberg</i>		Date 7/7/2021
Residence: U.S.A.		
Mailing Address: 2920 SE Bakersfield Street, Port Saint Lucie, FL 34952, USA		
NAME OF FIFTH INVENTOR:		
DARRYL Given Name (first and middle [if any])	ENG Family Name or Surname	
Inventor's signature		Date
Residence: U.S.A.		
Mailing Address: 1593 SE Tradition Trace, Stuart, FL 34997, USA		
NAME OF SIXTH INVENTOR:		
DAVID Given Name (first and middle [if any])	DAY Family Name or Surname	
Inventor's signature		Date
Residence: U.S.A.		
Mailing Address: 155 Whale Cay Way Jupiter, FL 33458, USA		

Doc code: Oath

Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)

Approved for use through 11/30/2020. OMB 0651-0052

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	AIRFOIL PROFILE FOR A TURBINE NOZZLE		
This statement is directed to:			
<input checked="" type="checkbox"/> The attached application, OR <input type="checkbox"/> United States application or PCT international application number _____ filed on _____			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
DAVID DAY			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Jupiter	FL	U.S.A.	
Mailing Address (except for a deceased or legally incapacitated inventor):			
155 Whale Cay Way			
City	State	Zip	Country
Jupiter	FL	33458	U.S.A.
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only), <input checked="" type="checkbox"/> Assignee, <input type="checkbox"/> Person to whom the inventor is under an obligation to assign, <input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or <input type="checkbox"/> Joint Inventor.			

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This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-6198 and select option 2.

PATENT

REEL: 056866 FRAME: 0986

PTO/SB/AIA02 (97-13)

Approved for use through 11/30/2020. OMB 0651-0632

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased.
- ☐ Inventor is under legal incapacity.
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:Name: **Sang Wook CHOI**Date (Optional): **July 14, 2021**Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: **DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.**

Title of Person Executing

This Substitute Statement: **IP Team Manager of DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.**

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City **Changwon-si, Gyeongsangnam-do**

State

Country

Republic of Korea

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

22, Doosanvolvo-ro, Seongsan-guCity **Changwon-si, Gyeongsangnam-do**

State

Zip

51711

Country

Republic of Korea

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

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PATENT**REEL: 056866 FRAME: 0987**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT