503762851 03/31/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3809498

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| WON-GYU KIM | 11/10/2015 |

RECEIVING PARTY DATA

| Name: | HYUNDAI MOTOR COMPANY |
|-----------------|-----------------------------|
| Street Address: | 12, HEOLLEUNG-RO, SEOCHO-GU |
| City: | SEOUL |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 06797 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | | | | |
|---------------------|----------|--|--|--|--|
| Application Number: | 14945049 | | | | |

CORRESPONDENCE DATA

Fax Number:

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.

Email: amckay@brinksgilson.com, usassignments@brinksgilson.com

Correspondent Name: BRINKS GILSON & LIONE

Address Line 1: 455 N. CITYFRONT PLAZA DRIVE

Address Line 2: SUITE 3600

Address Line 4: CHICAGO, ILLINOIS 60611

| ATTORNEY DOCKET NUMBER: | 15438-139 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | ANDREA MCKAY |
| SIGNATURE: | /Andrea McKay/ |
| DATE SIGNED: | 03/31/2016 |

Total Attachments: 2

source=15438-139_Assignment#page1.tif source=15438-139_Assignment#page2.tif

PATENT 503762851 REEL: 038160 FRAME: 0057

ASSIGNMENT

Atty, Docket No. 15438-139 FH15044US

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

VANE-ROTOR TYPE STIRLING ENGINE

| for which patent | Assiç | nor is | about | to mak | e or has m | nade Uni | ted State | es or Ir | nternational | applicatio | n for |
|---------------------|-------|--------|---------|--------|------------|-----------|-----------|----------------|------------------------------|------------|----------|
| (а |) | | this As | | ent on the | | | •• • | each invento signs the Do | | ** |
| (b |) | | execut | ted on | | | ; or | | | | |
| (c |) | | filed | on | or PCT I | nternatio | nal Appl | and ication | assigned No | Serial | No. L |

WHEREAS, Hyundai Motor Company of 12 Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea hereinafter referred to as the Assignee, is desirous of acquiring an interest therein:

U.S. Patent No. _____, issued _____; and

(d)

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of the Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

ASSIGNMENT

Atty. Docket No. 15438-139 FH15044US

Kim Won Gyy Nov. 10.2015.
Won-Gyu KIM Date

Page 2 of 2

PATENT REEL: 038160 FRAME: 0059

RECORDED: 03/31/2016