505536125 06/20/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5582922

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

CONVEYING PARTY DATA

| Name | Execution Date | |
|----------------|----------------|--|
| Toshikazu SANA | 06/06/2019 | |

RECEIVING PARTY DATA

| Name: | me: Kawasaki Jukogyo Kabushiki Kaisha | |
|---|---------------------------------------|--|
| Street Address: 1-1, Higashikawasaki-cho 3-chome, Chuo-ku | | |
| City: | Kobe-shi, Hyogo | |
| State/Country: | Japan | |
| Postal Code: | 650-8670 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | | |
|---------------------|----------|--|--|
| Application Number: | 16466109 | | |

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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.

703-836-6400 Phone: Email: email@oliff.com **Correspondent Name:** JAMES A. OLIFF Address Line 1: **OLIFF PLC**

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

| ATTORNEY DOCKET NUMBER: | 186868 | |
|-------------------------|--|--|
| NAME OF SUBMITTER: | VARSHA RAVICHANDRAN | |
| SIGNATURE: | /Varsha Ravichandran/ | |
| DATE SIGNED: | 06/20/2019 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 2

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> **PATENT** REEL: 049541 FRAME: 0061 505536125

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

| | Insert | (1) | Toshikazu SANA | (2) | |
|-------|--|--------------------|---|--|--|
| (1-8) | Legal Name(s) | (3) | | (4) | |
| | of Inventor(s) | (5) | | (6) | |
| | | (7) | | (8) | |
| | | ine un | sideration of the sum of one dol dersigned, the receipt and suffic and hereby does assign, transfe | lar (\$1.00) and other good and valuable consideration paid to each of icney of which are hereby acknowledged, each undersigned agrees to r and set over to | |
| (9) | Insert Name of Assignee | (9) | KAWASAKI JUKOGYO KABUSHIKI KAISHA | | |
| (10) | Insert Address of Assignee | (10) | 1-1. Higashikawasaki-cho 3- | chome, Chuo-ku, Kobe-shi, Hyogo 650-8670, JAPAN | |
| | | inventi contini | on, and in all applications for the parties of the parties of the parties. International, substitute and international, substitute and international. | e) and Assignce's heirs, successors, assigns and legal representatives, e United States of America as defined in 35 U.S.C. § 100, in the attent including any and all provisional, non-provisional, divisional, and reissue application(s), and all Letters Patent, extensions, reissues by be granted on the invention known as | |
| (11) | Insert Identification such as Title, Case Number, or Foreign Application Number | (11) | SEAL STRUCTURE OF MO STRUCTURE | LD FOR MANUFACTURING COMPOSITE MATERIAL | |
| | | (Attor | ney Docket No. 186868 |), filed on even date herewith or as | |
| (12) | Alternative Identification for | (12) | U.S. Application Number | 16/466,109 | |
| | filed applications | filed | June | 3, 2019 | |
| | | | | | |

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignce may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment 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.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

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

I have reviewed and understand the contents of the above-identified application, including the claims, and 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 declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

| Date | June /6/2019 | Inventor Signature | J. Sana Toshikazu SANA | (SEAL) |
|------|--------------|--------------------|---------------------------|--------|
| Date | | Inventor Signature | | (SEAL) |
| Date | | Inventor Signature | | (SEAL) |
| Date | | Inventor Signature | | (SEAL) |
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