505473232 05/13/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5520036

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QINGBO LIU	04/22/2019
QINGYUN DI	04/19/2019
TSILI WANG	04/22/2019
WENXUAN CHEN	04/16/2019
JIANSHENG DU	04/18/2019
YONGYOU YANG	04/10/2019
XINZHEN HE	04/12/2019
LINFENG HONG	04/20/2019
QIJUN XIE	04/19/2019

RECEIVING PARTY DATA

Name:	INSTITUTE OF GEOLOGY AND GEOPHYSICS, CHINESE ACADEMY OF SCIENCES	
Street Address:	eet Address: NO. 19, BEITUCHENG WESTERN ROAD, CHAOYANG DISTRICT	
City:	BEIJING	
State/Country:	CHINA	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16348022	

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email:tu.t.tan@bskb.com, mailroom@bskb.comCorrespondent Name:BIRCH, STEWART, KOLASCH & BIRCH, LLPAddress Line 1:8110 GATEHOUSE ROAD, SUITE 100E

Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	7021-0101PUS1
NAME OF SUBMITTER:	TAN T. TU
SIGNATURE:	/TAN T. TU/

PATENT 505473232 REEL: 049161 FRAME: 0063

DATE SIGNED: 05/10/2019

Total Attachments: 3
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PATENT REEL: 049161 FRAME: 0064 Application No.: 16348022 filed 05/07/2019

Attorney Docket No. 7021-0101PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

United States Patent Rights, or United States Plus all Foreign Patent Rights

Title of invention - S. MONLROTATING SIEEVE ANTLROTATION DEVICE AND ROTARY CHIDING DEVICE

Time of nivertical	* NON-ROTATING SLEEVE ANTI-ROTATION DEVICE AND ROTARY GUIDING DEVICE
	As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
	This declaration is directed to the application attached hereto.
Application not Attached	If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
Enter Applin, No.	" United States Application Number or PCT International Applin. No. PCT/CN2018/000083
Exter Filing Date	[≠] filed on March 2, 2018
	The above-identified application was made or 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 above-identified application, including the claims.
	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.
	WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	** WHEREAS, INSTITUTE OF GEOLOGY AND GEOPHYSICS, CHINESE ACADEMY OF SCIENCES
Insert Address of Assignee	♦ of No. 19, Beitucheng Western Road, Chaoyang District, Beijing, China,
	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	in any foreign countries.
	NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and

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terms for which the same may be granted.

Page 1

transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

BSKB-DEC-ASSIGN (TI-18)

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges 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 opposite the undersigned name,

LEGAL N.	AME OF INVENTOR			
Inventor's Name - > Inventor;	Qingbo LIU	Date:	2019-4-22	
Inventor's Signature Signature:	aingbo LIU			
An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors. Additional inventors are being named on thex_ supplemental sheet(s) attached hereto.				

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

	LEGAL N.	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	* Inventor;	Qingyun DI	Date:	2019 - 4 - 19
Inventor's Signature	⇒ Signature:	Qingyun Di		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		0 4 53
	inventor:	Tsili WANG	Date:	2019-4-22
Inventor's Signature	Signature:	TSi/i cvang	······································	
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇔Inventor:	Wenxuan CHEN	Date:	2019-4-16
Inventor's Signature	⁴ Signature:	Wenther Oz		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	[⇔] Inventor:	Jiansheng DU	Date:	2019-4-18
Inventor's Signature	⇔Signature:	Transheng Du		
	LEGAL N.	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	[‡] Inventor:	Yongyou YANG	Date:	2019 - 4 - 10
Inventor's Signature	⇒Signature:	Yong you YAN G		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇔Inventor:	Xinzhen HE	Date:	2019-4-12
Inventor's Signature	[‡] Signature:	Xinzhen HE		
	LEGAL N.	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇔Inventor:	Linfeng HONG	Date:	2019-4-20
Inventor's Signature	[⇔] Signature:	Linforg HoNB		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		۸
Inventor's Name	⇔Inventor:	Qijun XIE	Date:	2019 - 4-19
Ínventor's Signature	[⇔] Signature:	2 jun Xi E		

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Page 3

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PATENT REEL: 049161 FRAME: 0067