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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT	NEW ASSIGNMENT ASSIGNMENT		
		ASSIGNMENT			
CONVEYING PARTY	DATA				
		Name	Execution Date		
HIROSHI OGAWA			04/18/2017		
RECEIVING PARTY	DATA				
Name:	KYOCE	KYOCERA CORPORATION			
Street Address:	6 TAKE	6 TAKEDA TOBADONO-CHO, FUSHIMI-KU			
City:	КҮОТО	КҮОТО-ЅНІ, КҮОТО			
State/Country:	JAPAN	JAPAN			
Postal Code:	612-850	1			
••					
CORRESPONDENCE	E DATA				
Fax Number: Correspondence wil	l be sent to	the e-mail address first; if that is if that is unsuccessful, it will be			
Fax Number: <i>Correspondence wil</i> <i>using a fax number,</i>	l be sent to if provided;	t he e-mail address first; if that is if that is unsuccessful, it will be 58-882-2000			
Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email:	l be sent to if provided, 8	<i>if that is unsuccessful, it will be</i> 58-882-2000 II-USPatents@kyocera.com	sent via US Mail.		
Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email: Correspondent Nam	<i>I be sent to if provided</i> ; ני וי וי פ:	<i>if that is unsuccessful, it will be</i> 58-882-2000 II-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I	sent via US Mail.		
Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email: Correspondent Nam Address Line 1:	l be sent to if provided, t e: 8	<i>if that is unsuccessful, it will be</i> 58-882-2000 III-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I 611 BALBOA AVE	sent via US Mail.		
Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email: Correspondent Nam	l be sent to if provided, t e: 8	<i>if that is unsuccessful, it will be</i> 58-882-2000 II-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I	sent via US Mail.		
Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email: Correspondent Nam Address Line 1: Address Line 4:	l be sent to if provided; t e: t s	<i>if that is unsuccessful, it will be</i> 58-882-2000 III-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I 611 BALBOA AVE	sent via US Mail.		
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Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email: Correspondent Nam Address Line 1: Address Line 4: ATTORNEY DOCKET	l be sent to if provided, t e: t NUMBER:	<i>if that is unsuccessful, it will be</i> 58-882-2000 III-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I 611 BALBOA AVE AN DIEGO, CALIFORNIA 92123 15P01775US0	sent via US Mail.		
Fax Number: <i>Correspondence wil using a fax number,</i> Phone: Email: Correspondent Nam Address Line 1:	l be sent to if provided, t e: t NUMBER:	<i>if that is unsuccessful, it will be</i> 58-882-2000 III-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I 611 BALBOA AVE AN DIEGO, CALIFORNIA 92123 15P01775US0 TOKIKO KINOSHITA	sent via US Mail.		
Fax Number: <i>Correspondence wil</i> <i>using a fax number,</i> Phone: Email: Correspondent Nam Address Line 1: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 2	l be sent to if provided, e: NUMBER: R:	if that is unsuccessful, it will be 58-882-2000 (II-USPatents@kyocera.com YOCERA INTERNATIONAL INC. I 611 BALBOA AVE AN DIEGO, CALIFORNIA 92123 15P01775US0 TOKIKO KINOSHITA /Tokiko Kinoshita/ 04/21/2017	sent via US Mail.		
Fax Number: <i>Correspondence wil</i> <i>using a fax number,</i> Phone: Email: Correspondent Nam Address Line 1: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 2 Source=2017-04-21_Astacher	l be sent to if provided, e: e: NUMBER: R: ssignmentAs	<i>if that is unsuccessful, it will be</i> 58-882-2000 (II-USPatents@kyocera.com (YOCERA INTERNATIONAL INC. I 611 BALBOA AVE (AN DIEGO, CALIFORNIA 92123) 15P01775US0 TOKIKO KINOSHITA /Tokiko Kinoshita/	sent via US Mail.		

ASSIGNMENT 譲渡証書

(1-8)発明者名		(1-8) Name(s) of		
	(1)	Inventor(s)	(1) OGAWA, Hiroshi	
	(2)		(2)	
	(3)		(3)	
	(4)		(4)	
	(5)		(5)	
	(6)		(6)	
	(7)		(7)	
	(8)		(8)	
	以下の署名者各々に対して支払われる価 値ある対価に基づき、下記署名者は被譲 渡人、		In consideration of the good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to	
(9)被譲渡人名	京セラ株式会社	(9) Name(s) of Assignee(s)	(9) KYOCERA Corporation	
(10、11)被譲渡人本店 所在地・住所	京都市伏見区竹田鳥羽殿町6番地 〒612-8501、日本園	(10) State of Incorporation of Assignee(s) (11) Address(es) of Assignee(s)	(10) (11) of 6 Takeda Tobadono-cho, Fushimi-ku, Kyoto-shi, Kyoto, Japan 612- 8501, and	
	(上記を、以下被譲渡人) へ、下記署名者が米国に於いて特許出願 した		(hereinafter designated as the Assignee(s)) the entire worldwide right, title and interest in the invention known as	
(12)発明の名称、 件名番号、又は外国に於 ける特許出顧番号等の発 明を識別するもの		(12) Identification of Invention, such as Title, Case Number or Foreign Application Number	(12) <u>DRILL AND METHOD FOR</u> MANUFACTURING CUT PRODUCT USING SAME_	
	で識別される特許出願として公知の発明、 及びそれに対応する若しくはそれに基づい た外国での全ての特許出願として公知の		which was filed as U.S. Patent Application No. 15/520,951 on 21-APR-2017	
	発明の世界各国に亙っての権利、所有権 及び利益を譲渡することに同意し、ここに譲 渡する。		for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.	
1)下記署名者は、上記の発明に関し米国及び外国に於ける原出願、再 発行、分割出願及び継続出願に必要な全ての書類手続きを遂行するこ とに同意する。さらに下記署名者は、被譲渡人が必要もしくは便宜と看 做した際には、かかる出願に関し別個の譲渡手続きを行うことに同意す る。		1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.		
2) 下記署名者は、当該出願又はその継続出願又は分割出願に関し提 起され得る抵触審査に関連して必要な全ての書類手続きを遂行すること に同意する。さらにかかる抵触審査が発生した際には、証拠の収集等事 態の進展に関し被譲渡人に対しあらゆる協力をすることに同意する。		2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.		
)条項又は類似の合意の要求又は規定に関 、及び必要と看做される行為全てを遂行する	3) The undersigned agree(s) 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.		

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			y Dockes No. <u>16P01775US0</u> 上事件备号	
te de la companya de	3度人が有効な米国特許の付与の獲得にあたり ある積極的行動をとることに回意する。	 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) not executed any agreement in conflict herewith. 		
譲渡人と看做し、当訪! 被譲渡人に発行する権 はさらに、被譲渡人はこ	に、特許庁長官に対し、被譲渡人を全利益の被 出願又はその分割及び継続出願の米国特許証を !限を与え、かかる発行を要請する。下記署名者 ここに譲渡される全利益の譲渡を受ける権利を有 別に渡反する内容の契約は締結していないことを			
	により本書類の記録のために必要であるか、ま 進するために本譲漢証に挿入する権限を顧客著 *者に与えます。	6) The undersigned hereby grant(s) to t Customer Number: 32968 the power any further identification which may be to comply with the rules of the United S Office for recordation of this document.	to insert on this assignment necessary or desirable in order tates Patent and Trademark	
· · · · · · · · · · · · · · · · · · ·		inventor 1: OGAWA, Hiroshi		
***		Signature	Date	
180 Q		Hisrahi Ogawa	. \$ 1900 + 117	
発明者2		inventor 2.		
署名	日村	Signature	Date	
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***	日付	Signature	Date	
<u> </u>		Inventor 4		
覆名	日付	Signature	Date	
兼明者5		Inventor 5:		
***	日位	Signature	Date	
発 明者6		Inventor 6:		
養名	日付	Signature	Date	
·		Inventor 7:		
署名	84	Signature	Date	
発明者8	l	Inventor 8:		
**	日は	Signature	Date	

RECORDED: 04/21/2017

PATENT REEL: 042090 FRAME: 0101