## 503680403 02/04/2016

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

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Name	Execution Date
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### **PROPERTY NUMBERS Total: 1**

Property Type Number	
Application Number:	15001708

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SIGNATURE: /Angela M. Nolan/

DATE SIGNED: 02/04/2016

**Total Attachments: 1** 

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PATENT REEL: 037666 FRAME: 0678

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# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Bollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

	The Miner Practical by the appropries					
nsert						
SSIGNEE's lame(s) ddress(es))	1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan					
	transfers to ASSIGNEE the entire and exclu	isive right, title and interest to D				
l'ide of nvention)	METHOD FOR PRODUCIN	IG SIC SINGLE CRYST	AL			
	relating to International Patent Application of the United States was executed on even	PCT/JP / date herewith or, if not so execu	and/or for which application for Letters Patent ted, was:			
Insert date	(a) executed on	Assigned's attorney is l	hereby authorized to insert in (b) the specified			
of execution of application, finat concurrent)	(b) filed on January 20, 2016 data, when known.  Serial No. 15 / 001,708 ;					
	tanimayan na amagia atcititaden formaninat	ion application based thereon, fo	d on said application and any continuation, division or the full term or terms for which the said Letters , hereinafter, "said application(s) and Letters			
7	ASSIGNEE, to do all acts which the ASSIG enforcing protection for said invention, ine said Letters Patent(s), in any interference,	MEE may deem necessary, desir luding in the preparation and pr reissue, reexamination, or publi- tio relation to same, such acts to	I without charge to but at the expense of said able or expedient, for securing, maintaining and ossecution of said application(s) and the issuance of c use proceeding, and in any litigation or other legal o include but not be limited to executing all papers, providing sworn testimony, and obtaining and			
	IN WITNESS WHEREOF, the un	dersigned inventor(s) has (have)	affixed his/her/their signature(s).			
(Signatures)	1) Kouji YamashiNO (SIGNATURE)	Kouji Yamashiro	January 12, 2016			
	N. P. R. AD.	Nobuhira Abe	700000000000000000000000000000000000000			
	(SIGNATURE)	(TYPE NAME)	January 12, 2016 (DATE)			
	3)(SIGNATURE)	(TYPE NAME)	(DATE)			
	4)(SIGNATURE)	(TYPE NAME)	{DATE}			
	5) (SIGNATURE)	(TYPE NAME)	(DATE)			
	6)(SIGNATURE)	(TYPE NAME)	(DATE)			
	7)(SIGNATURE)	(Type name)	(DATE)			
	8)(SIGNATURE)	(TYPE NAME)	(DATE)			

(IYPE NAME) PATENT
RECORDED: 02/04/2016 REEL: 037666 FRAME: 0679