PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Masato Iyoki	08/19/2013
Naokatsu Nosaka	08/19/2013
Hiroumi Momota	08/19/2013
Junji Kuwahara	08/19/2013

RECEIVING PARTY DATA

Name:	Hitachi High-Tech Science Corporation
Street Address:	24-14, Nishi-shimbashi
City:	Minato-ku, Tokyo
State/Country:	JAPAN
Postal Code:	105-0003

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13974634

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	036777.00045
NAME OF SUBMITTER:	Gary D. Fedorochko
Signature:	/Gary D. Fedorochko/

502469856 REEL: 031071 FRAME: 0813

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Date:	08/23/2013
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

PATENT REEL: 031071 FRAME: 0814

ASSIGNMENT

	(1)	Masato IYOKI	(5)		
Insert	(2)	Naokatsu NOSAKA	(6)		
Name(s) of Inventor(s)	(3)	Hiroumi MOMOTA	(7)		
	(4)	Junji KUWAHARA	(8)		
Insert Name of Assignee	(9)	HITACHI HIGH-TECH SCIENCE CO	ORPORATION		
Insert Address of Assignee	(10)	24-14, Nishi-shimbashi 1-chome, Minato-ku, Tokyo 105-0003, Japan			
		, ,	,		
Incort		provisional, non-provisional, divisiona	al, continuation, s	in all applications for patent including any and all ubstitute, and reissue application(s), and all Letters ates that may be granted on the invention known as	
Insert Identification	(11)	provisional, non-provisional, divisiona	al, continuation, so xamination certifica	in all applications for patent including any and all ubstitute, and reissue application(s), and all Letters	
	e n	provisional, non-provisional, divisional Patent, extensions, reissues and reex	al, continuation, so xamination certifica	in all applications for patent including any and all ubstitute, and reissue application(s), and all Letters ates that may be granted on the invention known as	
Identification of Invention such as Title, Case Number, or Foreign	e n	provisional, non-provisional, divisional Patent, extensions, reissues and reex SCANNING PROBE MICRO (Attorney Docket No.	el, continuation, sixamination certification	in all applications for patent including any and all ubstitute, and reissue application(s), and all Letters ates that may be granted on the invention known as	
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Identification of Invention such as Title, Case Number, or Foreign Application Number Insert Date of Signing of	(12)	provisional, non-provisional, divisional Patent, extensions, reissues and reex SCANNING PROBE MICRO (Attorney Docket No. for which the undersigned has (have) on August 19, 2013	el, continuation, sixamination certification	in all applications for patent including any and all ubstitute, and reissue application(s), and all Letters ates that may be granted on the invention known as 045 ication for patent in the United States of America	
Identification of Invention such as Title, Case Number, or Foreign Application Number Insert Date of Signing of Application	(12)	provisional, non-provisional, divisional Patent, extensions, reissues and reex SCANNING PROBE MICRO (Attorney Docket No	al, continuation, sixamination certificates SCOPE 336777.00 executed an apple	in all applications for patent including any and all ubstitute, and reissue application(s), and all Letters ates that may be granted on the invention known as 045 ication for patent in the United States of America	
	Name(s) of Inventor(s) Insert Name of Assignee Insert Address	Insert (2) Name(s) of Inventor(s) (3) (4) Insert Name of Assignee (9) Insert Address (40)	Insert (2) Naokatsu NOSAKA Name(s) of Inventor(s) (3) Hiroumi MOMOTA (4) Junji KUWAHARA In consideration of the sum of on each of the undersigned, the undersover to Insert Name of Assignee (9) HITACHI HIGH-TECH SCIENCE Collinear Address of Assignee (10) 24–14, Nishi-shimbashi 1–chome, Mindon	Insert (2) Naokatsu NOSAKA (6) Name(s) of Inventor(s) (3) Hiroumi MOMOTA (7) (4) Junji KUWAHARA (8) In consideration of the sum of one dollar (\$1.00) a each of the undersigned, the undersigned agree(s) to over to Insert Name of Assignee (9) HITACHI HIGH-TECH SCIENCE CORPORATION Insert Address (40) OLIAN Institute to the Mineral Insert Address	

- 1) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 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.
- 4) The undersigned agree(s) 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) 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(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.
- 6) The undersigned hereby grant(s) the firm of Banner & Witcoff, LTD the power to insert on this assignment any further identification which 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.

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

Date	August 19, 2013	Name of Inventor	Masato Iyoki Masato IYOKI	(SEAL)
Date		Name of Inventor	Naokatsu NOSAKA	(SEAL)
Date	August 19, 2013	Name of Inventor	Hiroumi Momota	(SEAL)
Date		Name of Inventor	Junii KUWAHARA	(SEAL)

ASSIGNMENT

		(1)	Masato IYOKI	(5)	_	
(1-8) Insert	Insert	(2)	Naokatsu NOSAKA	(6)	_	
	Name(s) of inventor(s)	(3)	Hiroumi MOMOTA	(7)		
		(4)	Junji KUWAHARA	(8)	_	
			In consideration of the sum of one each of the undersigned, the undersigned to	dollar (\$1.00) and other good and valuable considerations pal gned agree(s) to assign, and hereby does assign, transfer and	d to set	
(9)	Insert Name of Assignee	(9)	HITACHI HIGH-TECH SCIENCE CO	RPORATION	_	
(10)	Insert Address of Assignee	(10)	24-14, Nishi-shimbashi 1-chome, Minato-ku, Tokyo 105-0003, Japan			
			as defined in 35 U.S.C. §100, in the	ee) the entire right, title and interest for the United States of Ame invention, and in all applications for patent including any and continuation, substitute, and relssue application(s), and all Le amination certificates that may be granted on the invention known	d all Hers	
(11)	Insert Identification	(11)	SCANNING PROBE MICRO	SCOPE		
	of Invention such as Title, Case Number, or Foreign					
	Application Number		(Attorney Docket No.	036777.00045)	
			for which the undersigned has (have)	executed an application for patent in the United States of America	3	
(12)	Insert Date of Signing of Application	(12)	on August 19, 2013			
(13)	Alternative	(13)	U.S. application Serial Number	13/974,634		
	Identification for filed applications			August 23, 2013	•	
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applicat any app Assigne claims of reexam States full righ herewill identified	applications for the ir ions and patents as the 2). The undersigned dication or continuation at the undersigned or provisions of the interest of the undersigned in the undersigned from said application a grant of a value of the undersigned resulting from said application of the undersigned the undersi	evention of the Assistance Assist	on, and any patent(s) issuing thereon, ignees may deem necessary. (s) to execute all papers necessary in vision thereof, or any patent or reissue blaining evidence and going forward we (s) to execute all papers and docume and Convention for Protection of Induste(s) to perform all affirmative acts wited States patent to the Assignee. By authorize(s) and request(s) the Compon(s) to the said Assignee, as Assigned therein assigned, and that he has (the leby grant(s) the firm of Banner & sary or desirable in order to comply the said components.	ents and perform any act which may be necessary in connection	such eming h the n with use or Inited have) onflict	
Dat	e		Name of Invento	Masato IYOKI (SEA	ıL)	
Dat	August 1	19,	2013 Name of Invento	1/ // /	NL)	
Da	te		Name of Invento	Hiroumi MOMOTA (SEA	\L)	
Da	te		Name of Invento	r (SE/ Junji KÜWAHARA	AL)	

PATENT REEL: 031071 FRAME: 0816

ASSIGNMENT

		(1)	Masato IYOKI	(5)
(1-8)	Insert	(2)	Naokatsu NOSAKA	(6)
	Name(s) of Inventor(s)	(3)	Hiroumi MOMOTA	(7)
		(4)	Junji KUWAHARA	(8)
(0)	least News of			ne dollar (\$1.00) and other good and valuable considerations paid to rsigned agree(s) to assign, and hereby does assign, transfer and set
(9)	Insert Name of Assignee	(9)	HITACHI HIGH-TECH SCIENCE C	ORPORATION
(10)	Insert Address of Assignee	(10)	24–14, Nishi-shimbashi 1–chome, Mir	nato-ku, Tokyo 105-0003, Japan
(11)	Insert Identification	(11)	as defined in 35 U.S.C. §100, in a provisional, non-provisional, division Patent, extensions, reissues and reconstructions.	nee) the entire right, title and interest for the United States of America the invention, and in all applications for patent including any and all hal, continuation, substitute, and reissue application(s), and all Letters examination certificates that may be granted on the invention known as
	of Invention such as Title, Case Number, or Foreign Application Number		(Attorney Docket No.	036777.00045
(12)	Insert Date of Signing of Application	(12)		
(13)	Alternative	(13)	U.S. application Serial Number	13/974,634
	Identification for filed applications filed			August 23, 2013
applicati any app Assigne	applications for the in ons and patents as the 2) The undersigned lication or continuation e in every way possible 3) The undersigned or provisions of the Inte	ventice Assi agree or divenion agree ematio	in, and any patent(s) Issuing thereor gnees may deem necessary. (s) to execute all papers necessary vision thereof, or any patent or reissue otaining evidence and going forward v (s) to execute all papers and docum nal Convention for Protection of Indu	ents and perform any act which may be necessary in connection with

- reexamination 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(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Name of Inventor	Masato IYOKI	_ (\$EAL)
Date		Name of Inventor	Naokatsu NOSAKA	_ (SEAL)
Date		Name of Inventor	Hiroumi MOMOTA	_ (SEAL)
Date	August 19, 2013	Name of Inventor	Junii kuwahara	_ (SEAL)

PATENT **REEL: 031071 FRAME: 0817**

RECORDED: 08/23/2013