FORM PTO-1595 (Rev. 6-93)       06 - 27 - 2003       To the Commissioner for Patent Patent and Trademark Office (EET         To the Commissioner for Patent Please record the attached original documents of copy thereat.       Attorney Docket No.: 04089.         1. Name of conveying party(ies):       2. Name and address of receiving party(ies):         Wataru MATSUTANI Masayuki SEGAWA Satoko ITO Osamu YOSHIMOTO       2. Name and address of receiving party(ies):         Additional names of conveying party(ies) attached?       2. Name and address: 14-18, Takatsuji-cho, Mizuho-ku, Naj shi, Aichi 467-8525 Japan         3. Nature of conveyance:       [] Merger         [] Security Agreement       [] Change of Name         [] Other       [] Merger         [] Additional name(s) & address(es) attached?       [] Yes         [] Yes       [X] No         4. New Application number(s) or patent number(s): NEW APPLICATION       If this document is being filed together with a new application the execution date of the application is: November 22, 2002         [] Yes       [X] No         5. Name and address of party to whom correspondence concerning document should be mailed:       6. Total num			UTES Rec'd FOTIPTO 0 4 DEC
(Rev. 6-93)       06 - 27 - 200.3       Fatem and Tademark Office Term         To the Commissioner for Patent       102484516       Attorney Docket No.: 04089         To the Commissioner for Patent       102484516       Attorney Docket No.: 04089         I. Name of conveying party(ies):       Name of conveying party(ies):       Name: NGK SPARK PLUG CO., LTD.         Mataguik SEGAWA       D	DODL ( DEC 4444	A/2591.00	
IEET         Attorney Docket No.: 04089.         Matter of conveying party(ies):         Name of conveying party(ies) attached?         Street Address: 14-18, Takatsaji-cho, Mizuho-ku, Naj shi, Aichi 467-8525 Japan         City:         State: Zip:         Nature of conveyance:         (City:         State: Zip:         Nature of conveyance:         State: Zip:         Note: Note: Note: Note: Note: Note: Sign of Name         I Other         Stat		06-27-2	2003 VS. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Commissioner for Patent.       To the Commissioner for Patent.         To the Commissioner for Patent.       To the Commissioner for Patent.         Please record the attached original documents of copy thereto.         ATTN: BOX ASSIGNMEN         1. Name of conveying party(ies):       Wataru MATSUTANI       Image: NGK SPARK PLUG CO., LTD.         Masayuki SEGAWA       Image: NGK SPARK PLUG CO., LTD.       Internal Address:         Additional names of conveying party(ies) attached?       Internal Address:       Internal Address:         [] Yes       [X] No       Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Naj shi, Aichi 467-8525 Japan         3. Nature of conveyance:       City:       State:       Zip:         [] Yes       [] Merger       [] Merger       City:       State:       Zip:         [] Other       [] Merger       [] Yes<[X] No			IEET
Please record the attached original documents of copy thereby.       ATTN: BOX ASSIGNMEN         1. Name of conveying party(ies):       2. Name and address of receiving party(ies):         Wataru MATSUTANI       1. J.	To the Commissioner for		Attomey Docket No.: 040894
Wataru MATSUTANI Masayuki SEGAWA Satoko ITO       Image: NGK SPARK PLUG CO., LTD.         Mame: NGK SPARK PLUG CO., LTD.         Additional names of conveying party(ies) attached?         I Yes       [X] No         Additional names of conveying party(ies) attached?         Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Nag shi, Aichi 467-8525 Japan         Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Nag shi, Aichi 467-8525 Japan         Street Address: 12-18, Takatsuji-cho, Mizuho-ku, Nag shi, Aichi 467-8525 Japan         Street Address: 22; 2002       City: State:         Zip:       Additional name(s) & address(es) attached?         [ ] Wes       [X] No         4. New Application number(s) or patent number(s): NEW APPLICATION         If this document is being filed together with a new application the execution date of the application is:         November 22, 2002       B. Patent No.(s)         Additional numbers attached: [ ] Yes [X] No         5. Name and address of party to whom correspondence concerning document should be mailed:         Name:       Robert J. Gaybrick         Internal Address:       Morgan, Lewis & Bockius LLP Customer No. 09629         Street Address: 1111 Pennsylvania Avenue, N.W.       6. Total number of applications and patents involved: 1         7. Total fee (37 C.F.R. §3.41): _540.00 [ ] Enclosed [ X] Authorized to be charged to Deposit Account 50-0310 (Attach duplicate page if payi	Please record the attached	l original documents or copy in	
Satoko ITO       Osamu YOSHIMOTO         Additional names of conveying party(ies) attached?       Internal Address:         Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Naj         3. Nature of conveyance:       Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Naj         Security Agreement       [] Merger         Security Agreement       [] Change of Name         Other       City:         State:       Zip:         Additional name(s) & address(es) attached?       [] Yes         Execution Date: November 22, 2002       [] Yes         4. New Application number(s) or patent number(s): NEW APPLICATION       If this document is being filed together with a new application the execution date of the application is:         November 22, 2002       B. Patent No.(s)       Implication is:         November 22, 2002       B. Patent No.(s)       Implication is:         Additional numbers attached:       [] Yes       [X] No         5. Name and address of party to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved: 1         Name:       Robert J. Gaybrick       7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u> I] Enclosed       [X] Authorized to be charged to Deposit Account 50-0         City: Washington       State: D.C. Zip: 20004       Zip: 20004         9. Stateme			
Additional names of conveying party(ies) attached?       Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Nag shi, Aichi 467-8525 Japan         3. Nature of conveyance:       City:         [X] Assignment       [] Merger         [] Security Agreement       [] Change of Name         [] Other       [] Change of Name         [] Other       [] Change of Name         [] Other       [] Yes         Execution Date: November 22, 2002       [] Yes         4. New Application number(s) or patent number(s): NEW APPLICATION         If this document is being filed together with a new application the execution date of the application is:         November 22, 2002       B. Patent No.(s)         Additional numbers attached: [] Yes [X] No         5. Name and address of party to whom correspondence concerning document should be mailed:         Name:       Robert J. Gaybrick         Internal Address:       1111 Pennsylvania Avenue, N.W.         City:       Wathington         Street Address:       1111 Pennsylvania Avenue, N.W.         City:       Wathington         Statement and Signature       City:         7. Statement and Signature       City:         9. Statement and Signature       Mather of correct and any attached copy is a t copy of the original document.         Robert J. Goodell, Reg. No. 41.	Masayuki SEGAWA Satoko ITO	$\left( \right) \cdot \left( \left( \right) \right) $	
[] Yes       [X] No         3. Nature of conveyance:       Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Nagshi, Aichi 467-8525 Japan         3. Nature of conveyance:       [X] Assignment         [] Security Agreement       [] Change of Name         [] Other       [] Change of Name         [] Yes       [X] No         4. New Application number(s) or patent number(s): NEW APPLICATION         If this document is being filed together with a new application the execution date of the application is:         November 22, 2002       [] Wes         A. Patent Application No.(s)       B. Patent No.(s)         Additional numbers attached:       [] Yes         Name:       Robert J. Gaybrick         Internal Address:       1111 Pennsylvania Avenue, N.W.         City: Washington       State: D.C.         Street Address:       1111 Pennsylvania Avenue, N.W.         City: Washington       State: D.C.	Osamu YOSHIMOTO		Internal Address:
[X] Assignment       [] Merger         [] Scurity Agreement       [] Change of Name         [] Other		eying party(ies) attached?	Street Address: 14-18, Takatsuji-cho, Mizuho-ku, Nag shi, Aichi 467-8525 Japan
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<ul> <li>4. New Application number(s) or patent number(s): NEW APPLICATION</li> <li>If this document is being filed together with a new application the execution date of the application is: <ul> <li>November 22, 2002</li> <li>B. Patent No.(s)</li> </ul> </li> <li>Additional numbers attached: []Yes [X] No</li> </ul> <li>5. Name and address of party to whom correspondence concerning document should be mailed: <ul> <li>Name:</li> <li>Robert J. Gaybrick</li> <li>Internal Address:</li> <li>Morgan, Lewis &amp; Bockius LLP Customer No. 09629</li> <li>Street Address:</li> <li>1111 Pennsylvania Avenue, N.W. City: Washington State: D.C. Zip: 2004</li> <li>9. Statement and Signature <ul> <li>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.</li> <li>Robert J. Goodell. Reg. No. 41,040 Name of Person Signing</li> <li>Signature</li> </ul></li></ul></li>	[] Security Agreement		Additional name(s) & address(es) attached?
If this document is being filed together with a new application the execution date of the application is:         November 22, 2002         A. Patent Application No.(s)         B. Patent No.(s)         Additional numbers attached:         I Yes [X] No         5. Name and address of party to whom correspondence concerning document should be mailed:         Name:       Robert J. Gaybrick         Internal Address:       Morgan, Lewis & Bockius LLP Customer No. 09629         Street Address:       1111 Pennsylvania Avenue, N.W.         City: Washington       State: D.C. Zip: 20004         9. Statement and Signature       To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.         Robert J. Goodell, Reg. No. 41,040       Mathematical Signature         Name of Person Signing       Signature	Execution Date: Novembe	<u>er 22, 2002</u>	[]Yes [X] No
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November 22, 2002       Image: Concerning document should be mailed:         Name:       Robert J. Gaybrick       6. Total number of applications and patents involved: 1         Name:       Robert J. Gaybrick       7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u> Internal Address:       Morgan, Lewis & Bockius LLP Customer No. 09629       8. Deposit Account No. 50-0310         Street Address:       1111 Pennsylvania Avenue, N.W.       8. Deposit Account No. 50-0310         City: Washington       State: D.C. Zip: 20004       9. Statement and Signature         To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.       Mathematical Signature         Robert J. Goodell, Reg. No. 41.040       Mathematical Signature       December 3, 2002         Name of Person Signing       Signature       Date			
Additional numbers attached:       [] Yes [X] No         5. Name and address of party to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved: 1         Name:       Robert J. Gaybrick       7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u> Internal Address:       Morgan, Lewis & Bockius LLP Customer No. 09629       7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u> Street Address:       1111 Pennsylvania Avenue, N.W.       7. Zip: 20004         9. Statement and Signature       7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u> 9. Statement and Signature       8. Deposit Account No. 50-0310         7. Total best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.         Robert J. Goodell, Reg. No. 41,040       Mather of Person Signing			
<ul> <li>5. Name and address of party to whom correspondence concerning document should be mailed:</li> <li>Name: Robert J. Gaybrick</li> <li>Internal Address: Morgan, Lewis &amp; Bockius LLP Customer No. 09629</li> <li>Street Address: 1111 Pennsylvania Avenue, N.W.</li> <li>City: Washington State: D.C. Zip: 20004</li> <li>9. Statement and Signature</li> <li>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.</li> <li>Robert J. Goodell, Reg. No. 41,040 Name of Person Signing</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>6. Total number of applications and patents involved: 1</li> <li>7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u></li> <li>[ ] Enclosed</li> <li>[ X] Authorized to be charged to Deposit Account 50-0</li> <li>8. Deposit Account No. 50-0310</li> <li>(Attach duplicate page if paying by deposit account for the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</li> </ul>	A. Patent Application No.		B. Patent No.(s) $\left(\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
concerning document should be mailed:         Name:       Robert J. Gaybrick         Internal Address:       Morgan, Lewis & Bockius LLP Customer No. 09629         Street Address:       1111 Pennsylvania Avenue, N.W.         City:       Washington         Statement and Signature         To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.         Robert J. Goodell, Reg. No. 41,040 Name of Person Signing       Two foregoing information is true and correct and any attached copy is a t Signature	Additional numbers attach	ned: [] Yes [X] No	
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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a t copy of the original document.          Robert J. Goodell, Reg. No. 41,040       Image: Comparison of Person Signing       Image: Comparison of Person Signing       Image: Comparison of Person Signing         Name of Person Signing       Signature       Image: Comparison of Person Signing       Image: Comparison of Person Signing	Name: Rober Internal Address: Morg	an, Lewis & Bockius LLP	[ ] Enclosed [ X] Authorized to be charged to Deposit Account 50-0
Name of Person Signing Signature / Date	Name: Rober Internal Address: Morg Custo Street Address: 1111 F City: Washington Stat	an, Lewis & Bockius LLP omer No. 09629 Pennsylvania Avenue, N.W. ae: D.C. Zip: 20004	<ul> <li>[] Enclosed</li> <li>[X] Authorized to be charged to Deposit Account 50-0</li> <li>8. Deposit Account No. 50-0310</li> </ul>
	Name:RoberInternal Address:Morg CustoStreet Address:1111 FCity:WashingtonState9.Statement and Signate To the best of my knowled	an, Lewis & Bockius LLP omer No. 09629 Pennsylvania Avenue, N.W. ae: D.C. Zip: 20004 ure dge and belief, the foregoing int	<ul> <li>[ ] Enclosed</li> <li>[ X] Authorized to be charged to Deposit Account 50-0</li> <li>8. Deposit Account No. 50-0310</li> <li>(Attach duplicate page if paying by deposit account)</li> </ul>
	Name:RobertInternal Address:Morg CustoStreet Address:1111 HCity:WashingtonStat9.Statement and Signath To the best of my knowled copy of the original documRobert J. Goodell, Reg. N	an, Lewis & Bockius LLP omer No. 09629 Pennsylvania Avenue, N.W. te: D.C. Zip: 20004 ure dge and belief, the foregoing int nent.	[ ] Enclosed [ X] Authorized to be charged to Deposit Account 50-0 8. Deposit Account No. 50-0310 (Attach duplicate page if paying by deposit account) formation is true and correct and any attached copy is a tr December 3, 2002 Date
	Name:       Robert         Internal Address:       Morg Custo         Street Address:       1111 H         City:       Washington       State         9.       Statement and Signate         To the best of my knowled copy of the original docum         Robert J. Goodell, Reg. N	an, Lewis & Bockius LLP omer No. 09629 Pennsylvania Avenue, N.W. te: D.C. Zip: 20004 ure dge and belief, the foregoing int nent.	[ ] Enclosed [ X] Authorized to be charged to Deposit Account 50-0 8. Deposit Account No. 50-0310 (Attach duplicate page if paying by deposit account) formation is true and correct and any attached copy is a t December 3, 2002 Date

PATENT REEL: 014206 FRAME: 0742

ATTORNEY DOCKET NO.: SOLE/JOINT INVENTION (U.S. Rights Only)

## ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

## SPARK PLUG

for which L/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on \_\_\_\_\_\_, (Application No. \_\_\_\_\_); and

WHEREAS NGK SPARK PLUG CO., LTD., a corporation of <u>Japan</u>, whose post office address is <u>14-18</u>, Takatsuji-cho, Mizuho-kupereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, LWE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and LWE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_\_, filed \_\_\_\_\_\_) the filing date and application number of said application when known.

Full Name of Sole or First Assignor Wataru MATSUTANI	Assignor's Signature	Date Novembe	er 22, 2002
Address Aichi, Japan		Citizenship	Japan
Full Name of Second Assignor Masayuki SEGAWA	Assignor's Signature MASAYUKI SEGAWA	Date Novembe	er 22, 2002
Address Aichi, Japan		Citizenship	Japan
Names of additional inventors attached [XX] Yes	[ ] No		

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

-431/24264.1

Morgan, Lewis & Bockius LLP

PATENT REEL: 014206 FRAME: 0743

## ATTORNEY DOCKET NO .: ASSIGNMENT (U.S. Rights Only)

		(U.S. Rights Only)
Full Name of Third Assignor Satoko ITO	Assignor's Signature Hatoko Lto	Date November 22, 2002
Address Aichi, Japan		Citizenship Japan
Full Name of Fourth Assignor Osamu YOSHIMOTO	Assignor's Signature Bann Joshimata	Date November 22, 2002
Address Aichi, Japan		Citizenship Japan
Full Name of Fifth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Sixth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Seventh Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Eighth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Ninth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Tenth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Eleventh Assignor	Assignor's Signature	Date
Address		Citizenship
Names of additional inventors attached []}	ies [XXNo	

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Morgan, Lewis & Bockius LLP