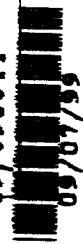


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Execution Date - Month/Day/Year

1. Hideshi MATSUBARA

1. 8/23/99

2. Motohiko ITAI

2. 8/25/99

3. Kazuo KIMURA

3. 8/25/99

Receiving Party(ies)

1. Name: NGK SPARK PLUG CO., LTD.

Address: 14-18 Takatsuji-cho, Mizuho-ku Nagoya-shi, Aichi-ken 467 JAPAN

Correspondent Name and Address

Tel No. 703-739-4900

Name: ROSS F. HUNT, JR.

Docket No.: P06430US0/RFH

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Pages: Enter the total number of pages of the attached conveyance document including any attachments #**Application Number(s) or Patent Number(s)** (DO NOT ENTER BOTH numbers for the same property)

Patent Application Number(s)

Patent Number(s)

This document is being filed together with a new patent application.

The date the patent application was signed by the first named inventor is:

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**Patent Cooperation Treaty (PCT)**Enter Number only if a US Appl. No. has not been assigned**Number of Properties** Enter the total number of properties involved 1**Fee Amount** 40.00 **Fee Amount for Properties Listed (37 CFR 3.41)** \$ 40.00
Payment is **Enclosed** (Any insufficiency in fee is authorized to be charged to Deposit Account No. 12-0555)**Statement and Signature**

To 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. Charges to deposit are authorized, as indicated herein.

Name: Douglas E. Jackson

Date: 9/7/99

ASSIGNMENT OF PATENT APPLICATION

(US rights only - all US rights assigned by inventors to a single assignee)

WHEREAS,

(1) *Hideshi MATSUBARA, Motohiko ITAI and Kazuo KIMURA*

each having their mailing address as

(1) *14-18 Takatsuji-cho Mizuho-ku Nagoya-shi Aichi-ken 467 JAPAN*

(hereinafter referred to as the "ASSIGNOR") has/have invented certain new and useful improvements in PRINTED CIRCUIT BOARD

for which an application for a United States Patent

X was executed on even date herewith
 was executed on
 was filed on , as Serial No.:

And WHEREAS, **NGK SPARK PLUG CO., LTD.**

whose Post Office Address is *14-18 Takatsuji-cho Mizuho-ku Nagoya-shi Aichi-ken 467 JAPAN*

(hereinafter referred to as the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, re-issues, renewals and/or extensions thereof,

NOW THEREFORE in consideration of the sum of ten U.S. dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the ASSIGNOR does hereby assign, sell, transfer and set over unto the ASSIGNEE the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, re-issues, renewals and/or extensions thereof, said ASSIGNEE to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, continuations, re-issues, renewals and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

And for the consideration aforesaid, ASSIGNOR agrees that ASSIGNOR will communicate to said ASSIGNEE or the representatives thereof any facts known to

ASSIGNOR respecting the invention(s) and improvement(s) of the said United States application, and will, upon request, but without expense to ASSIGNOR, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said ASSIGNEE or by counsel for said ASSIGNEE, to assist or enable said ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned.

This assignment shall be binding upon the ASSIGNOR's heirs, executors, administrators, successors and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of the ASSIGNEE.

The Commissioner of Patents is requested to issue such Letters Patent in accordance with this assignment.

I hereby authorize and request any attorney of record in said Application or any attorney of Larson & Taylor, Customer No. 000881, to insert above any information concerning the identity of the parties or of said Application (including the serial no. and filing date).

NAME

SIGNATURE

DATE

1) Hideshi MATSUBARA

Hideshi Matsubara

8/23/99

2) Motohiko ITAI

Motohiko Itai

8/25/99

3) Kazuo KIMURA

Kazuo Kimura

8/25/99