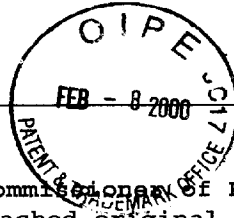


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PATENTS ONLY (ref OG 7/28/92)



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To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original document or copy thereof.

- 1. Name of Party(ies) conveying an interest:
- 2. Name and Address of Party(ies) receiving an interest:

Futoshi TOMIYAMA; Takehiko HAMAGUCHI;
Toru MATSUSHITA; Hideki ZAITSU;
Reijiro TSUCHIYA; Hisashi TAKANO

HITACHI, LTD.
6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo, JAPAN

- 3. Description of the interest conveyed: Assignment

- 4. Application number(s) or patent number(s).

Additional sheet attached? ___ Yes XXX No

If this document is being filed together with a new application,
the execution date of the application is: _____

DATE

- A. Patent Application No.(s)
09/451,912
- B. Patent No.(s)

- 5. Name and address of party to whom correspondence concerning document should be mailed:

Thomas E. Beall, Jr.
BEALL LAW OFFICES
104 East Hume Avenue
Alexandria, Virginia 22301

- 6. Number of applications and patents involved: One

- 7. Amount of fee enclosed or authorized to be charged: \$40.00

- 8. The Commissioner is hereby authorized to charge Deposit Account No. 02-1540, if no check is attached.

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(40.00 DP)

- 9. Execution date of attached document: January 7, 2000 and January 11, 2000

- 10. To the best of my knowledge and belief, I declare under penalty of perjury under the laws of the United States of America that the foregoing information is true and correct and that any attached copy is a true copy of the original document.

John R. Mattingly
Name of Person Signing

Signature

February 8, 2000
Date

Total number of pages being submitted: 2

PATENT
REEL: 010588 FRAME: 0932

E4909-01
(*)

ASSIGNMENT

(譲 渡 証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

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invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire owner-ship of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)	Date Signed
(発明者フルネームサイン)	(署名日)
1) <u>Futoshi Tomiyama</u>	<u>1/7/2000</u>
2) <u>Takehiko Yamaguchi</u>	<u>1/7/2000</u>
3) <u>Tomu Matsushita</u>	<u>1/7/2000</u>
4) <u>Hideki Zaitse</u>	<u>1/7/2000</u>
5) <u>Reijiro Tsuchiya</u>	<u>1/11/2000</u>
6) <u>Hisshu Takano</u>	<u>1/7/2000</u>
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____