

FORM PTO-1595 (modified)

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Akira CHINDA
Akira MATSUURA

12.19.01

2. Name and address of receiving party(ies):

HITACHI CABLE, LTD.
6-1, Otemachi 1-chome, Chiyoda-ku,
Tokyo, Japan

Additional conveying party(ies) NO

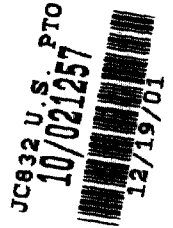
3. Nature of conveyance:

ASSIGNMENT

Execution Date:

November 28, 2001

Additional name(s) & address(es) attached? NO



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

If this is being filed together with a new application, the execution date of the application is: November 28, 2001

A. Patent Application Number(s):

10/021257

B. Patent Number(s):

Additional numbers attached? NO

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

Glenn Law
FOLEY & LARDNER
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5143

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

 Check Enclosed

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8. Deposit account number: 19-0741

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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 true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Glenn Law

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Name of person signing

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Total number of pages including cover sheet, attachments, and document: 3

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

HITACHI CABLE, LTD.

6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in

WIRING BOARD, SEMICONDUCTOR DEVICE, AND PROCESS FOR PRODUCTION OF WIRING BOARD

as set forth in this United States Patent Application

- executed concurrently herewith
 executed on _____
 Serial No. _____ filed _____

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

The undersigned hereby grant the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS

Name: Akira CHINDA	Signature: 珍田 聡	Date: November 28, 2001
Name: Akira MATSUURA	Signature: 松浦 亮	Date: November 28, 2001
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Name:	Signature:	Date:
Name:	Signature:	Date:
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Name:	Signature:	Date:

NAMES AND SIGNATURES OF WITNESSES

Name: Masaaki KATO	Signature: M. Kato	Date: November 28, 2001
Name:	Signature:	Date:

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