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PATENT & TRADEMARK OFFICE

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FORM PTO-1596
1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 50032-145

100981274

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

<p>1. Name of Conveying Parties: Genta KOIZIMI, Katsuhiko SAKAI, Hiroshi MABUCHI, Mitsuru YAMAZAKI, Seiichi KURIHARA, and Yuji ABE</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes</p>	<p>2. Name and address of receiving parties: Names: 1. Hitachi Cable Ltd. of 1-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo, JAPAN</p> <p>2. Fujitsu Limited of 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa-ken, JAPAN</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes</p>
<p>3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: February 16, 1999</p>	

<p>4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). 09/219,303, filed December 23, 1998</p>	<p>B. Patent No(s).</p>
Additional numbers attached? <input type="checkbox"/> Yes	

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: DC Zip: 20005</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 500417</p>
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<p>9. Statement and Signature. <i>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.</i></p> <p>Gene Z. Rubinson, 33,351</p>		
Name and Registration No. of Person Signing	Signature 	Date March 2, 1999
Total number of pages comprising cover sheet:		1

CMB No. 0851-0011 (exp. 4/94)

Assignment

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

(1) GENTA KOIZIMI (4) MITSURU YAMAZAKI
 (2) KATSUHIKO SAKAI (5) SEIICHI KURIHARA
 (3) HIROSHI MABUCHI (6) YUJI ABE

who have made a certain new and useful invention, hereby sell, assign and transfer unto
HITACHI CABLE LTD. of 1-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN
AND FUJITSU LIMITED of 1-1, KAMIKODANAKA 4-CHOME, NAKAHARA-KU, KAWASAKI-SHI,
KANAGAWA-KEN, JAPAN

its successors and assign (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U. S. C 100 in the invention entitled

LIGHT EMITTING DIODE ARRAY

for which

☐ an application is being filed concurrently herewith,

☒ an application for a Patent of the United States was filed on December 23, 1998

☒ an given Application Serial No. 09/219,303

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under International Convention for the protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) <u>Genta Koizumi</u>	<u>February 16, 1999</u>
Name: <u>GENTA KOIZUMI</u>	
2) <u>Katsuhiko Sakai</u>	<u>February 16, 1999</u>
Name: <u>KATSUHIKO SAKAI</u>	
3) <u>Hiroshi Mabuchi</u>	<u>February 16, 1999</u>
Name: <u>HIROSHI MABUCHI</u>	
4) <u>Mitsuru Yamazaki</u>	<u>February 16, 1999</u>
Name: <u>MITSURU YAMAZAKI</u>	
5) <u>Seiichi Kurihara</u>	<u>February 16, 1999</u>
Name: <u>SEIICHI KURIHARA</u>	
6) <u>Seiichi Kurihara Yuji Abe</u>	<u>February 16, 1999</u>
Name: <u>YUJI ABE</u>	