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10-25-2001



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Our Ref.: 1883-42

Commissioner of Patents and Trademarks  
Box Assignment, Washington, D.C. 20231

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

<p>1. Name of conveying party(ies): Hiroshi NAKATSU Takahisa KURAHASHI Tetsurou MURAKAMI Shouichi OHYAMA</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment      <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment      <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: August 23, 2001</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>Sharp Kabushiki Kaisha</u> Internal Address: _____ Street Address: <u>22-22, Nagaïke-cho, Abeno-ku</u> _____ _____ City: <u>Osaka</u> State/Country: <u>Japan</u> Zip: _____</p> <p>Additional name/s &amp; address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____</p>	
<p>A. Patent Application No(s). (1) 09/948,701 (2) (3)</p>	<p>B. Patent No(s). (1) (2) (3)</p>
<p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>H. Warren Burnam, Jr.</u> Internal Address: _____ Street Address: <u>Nixon &amp; Vanderhye P.C.</u> <u>1100 North Glebe Road</u> <u>8<sup>th</sup> Floor</u> City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications &amp; patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any <u>deficiency</u> in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our <b>Account No. 14-1140.</b></p>
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DO NOT USE THIS SPACE

<p>9. Statements 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.</p>	
<p><u>H. Warren Burnam, Jr.</u> Name of Person Signing Reg. No. 29,366</p>	<p><u><i>H. Warren Burnam, Jr.</i></u> Signature</p>
<p><u>October 18, 2001</u> Date</p>	
<p>Total number of pages including <b>original</b> cover sheet, attachments, and document: [2]</p>	

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**ASSIGNMENT OF U.S. PATENT APPLICATION**

**(Inventors)** Hiroshi NAKATSU  
Takahisa KURAHASHI  
Tetsurou MURAKAMI  
Shouichi OHYAMA

**(Assignee)** In consideration of the sum of one dollar (\$1.00) and other good and valuable  
**(Address)** considerations paid to each of the undersigned, the undersigned agree(s) to assign, and  
 hereby does assign, transfer and set over to  
SHARP KABUSHIKI KAISHA a corporation of \_\_\_\_\_  
22-22, Nagaike-cho, Abeno-ku, Osaka, JAPAN

**(Title)** (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for  
 the United States, its territories, dependencies and possessions in the invention, and all  
 applications for patent and any Letters Patent which may be granted therefore, known as  
LIGHT-EMITTING SEMICONDUCTOR ELEMENT

for which the undersigned has (have) executed on even date herewith an application for  
 patent in the United States of America or, if not on even date, then has executed on  
 \_\_\_\_\_ or has already filed U.S. application Serial No. \_\_\_\_\_, on  
 \_\_\_\_\_.

The undersigned acknowledges an obligation of assignment of this invention to said assignee  
 at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with  
 the application or any interference which may be declared and any continuing or divisional applications  
 thereof and also to execute separate assignments in connection with such applications as the Assignee  
 may deem necessary or expedient and further to perform any act which may be necessary in connection  
 with claims or provisions of the International Convention for Protection of Industrial Property or similar  
 agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a  
 grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any  
 and all Letters Patent of the United States resulting from said application or any division or divisions or  
 continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby  
 covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has  
 (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on  
 this assignment any further identification which may be necessary or desirable in order to comply with  
 the rules of the United States Patent Office for recordation of this document. It is understood and agreed  
 that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will  
 continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned  
 signature(s).

Date Aug. 23rd, 2001 Signature of inventor Hiroshi NAKATSU  
 Hiroshi NAKATSU

Date Aug. 23rd, 2001 Signature of inventor Takahisa KURAHASHI  
 Takahisa KURAHASHI

Date Aug. 23rd, 2001 Signature of inventor Tetsurou MURAKAMI  
 Tetsurou MURAKAMI

Date Aug. 23rd, 2001 Signature of inventor Shouichi OHYAMA  
 Shouichi OHYAMA

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_

Witnessed by: Hiroyuki Kawabe  
 Hiroyuki KAWABE

Date Sep. 21, 2001

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_