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U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): 9-16-03

Takuya HAMADA, Kazunori KITAGAWA and Hitoshi TOKI

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: October 24, 2002; November 6, 2002

2. Name and address of receiving party(ies)

Name: Futaba Corporation

Internal Address: \_\_\_\_\_

Street Address: 629 Oshiba

Mobara-shi

City: Chiba-ken State: JAPAN Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: \_\_\_\_\_

A. Patent Application No.(s)

U.S. Serial No. 10/229,116 Filed August 28, 2002

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Breiner & Breiner, L.L.C.

Internal Address: \_\_\_\_\_

Street Address: 115 North Henry Street

P.O. Box 19290

City: Alexandria State: VA Zip: 22320-0290

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

02-3690

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9. 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.

Mary J. Breiner

Name of Person Signing

Mary J. Breiner  
Signature

September 16, 2003

Date

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

5856/Kawasaki

Mail documents to be recorded with required cover sheet information to:

Commissioner for Patents, Box Assignments  
P.O. Box 1450, Alexandria, Virginia 22313-1450

PATENT

REEL: 014498 FRAME: 0646

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## ASSIGNMENT

WHEREAS, we, TAKUYA HAMADA, KAZUNORI KITAGAWA, and HITOSHI TOKI, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent executed by us the 7 & 8th day of August 2002 for "PHOSPHOR, METHOD FOR PREPARING PHOSPHOR LAYER AND VACUUM FLUORESCENT DISPLAY" filed on August 28, 2002 under Serial No. 10/229,116, the hereinafter named assignee being hereby authorized to insert the said serial number and execution date when ascertained;

AND WHEREAS, Futaba Corporation, a corporation organized under the laws of Japan and having a place of business at 629 Oshiba, Mobara-shi, Chiba-ken, Japan, is desirous of acquiring the entire right, title, and interest in the United States and in and to said invention and to any and all Letters Patent of the United States and foreign countries which may be obtained for said invention;

NOW, THEREFORE, for good and valuable consideration, we do each of us hereby sell, assign, transfer, and set over unto the said FUTABA CORPORATION, its legal representatives, successors, and assigns, the entire right, title, and interest in and to all inventions whether joint or sole disclosed in said application for Letters Patent and in and to any and all divisional, continuation or reissue applications that may be filed for United States Letters Patent for any of said inventions and in and to all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATION, we do hereby agree with the said assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will, at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuation or reissued Letters Patent of the United States or of any foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of assignor and assignee;

AND WE request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said inventions to said FUTABA Corporation, its legal representatives, successors or assigns, as the sole owner of the entire right, title, and interest in and to said patent and in the United States and in and to the invention covered thereby.

Date 02, 10, 24

Takuya Hamada  
TAKUYA HAMADA

Date 2002, 11, 6

Kazunori Kitagawa  
KAZUNORI KITAGAWA

Date 2002-11-6

Hitoshi Toki  
HITOSHI TOKI