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FORM PTO-1596
1-31-92

RECC

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

DOCKET NO.: 3008-40

101989685

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

1. Name of conveying party(ies): Akifumi Higuchi, Toyoharu Koizumi and Norihiro Ashizuka

2.13.02

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

Name: Hitachi Cable, Ltd.

Internal Address: _____

Street Address: 6-1, Otemachi 1-chome, Chiyoda-ku

City: Tokyo State/Country: Japan ZIP: _____

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: January 10, 2002

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

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). 10/000,791
Filed: December 4, 2001

B. Patent No(s).

Additional numbers attached? Yes No

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

Name: Alfred A. Stadnicki

Internal Address: _____

Street Address: 1146 Nineteenth Street, N.W.

Fifth Floor

City Washington State: DC ZIP: 20036

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: _____

DO NOT USE THIS SPACE

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.

Alfred A. Stadnicki, 30,226

Name and Registration No. of Person Signing

Signature

January 14, 2002

Date

Total number of pages comprising cover sheet: 1

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

(Client No. PHCF-01185)

02/19/2002 CCHAU1 00000022 10000791

02 FD:581

40.00 DP

PATENT
REEL: 012588 FRAME: 0169

ASSIGNMENT

WHEREAS, I/we (as applicable) Akifumi HIGUCHI, Toyoharu KOIZUMI, Norihiro ASHIZUKA, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled "BGA TYPE SEMICONDUCTOR DEVICE, TAPE CARRIER FOR SEMICONDUCTOR DEVICE, AND SEMICONDUCTOR DEVICE USING SAID TAPE CARRIER", for which an application for United States Letters Patent [] is filed herewith or [X] was filed on December 4, 2001 as Application Serial No. 10/000,791;

AND WHEREAS, I/we hereby acknowledge my/our obligation to transfer the entire right, title and interest to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefore to Hitachi Cable, Ltd. (hereinafter referred to as **ASSIGNEE**), a corporation organized and existing under the laws of Japan and having an address of 6-1, OTEMACHI 1-CHOME, CHIYODA-KU, TOKYO, JAPAN;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we do hereby sell, assign, transfer and set over unto said **ASSIGNEE**, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention including rights to priority under the International Convention of Paris (1883), as amended;

UPON SAID CONSIDERATIONS, I/we hereby acknowledge and agree that I/we have not and will not execute any writing or do any act whatsoever conflicting with these presents, and that I/we will, at any time upon request, without further or additional consideration but at the expense of said **ASSIGNEE**, execute such additional assignments and other writings, for example statements and other affidavits, and do such additional acts, for example giving testimony, as said **ASSIGNEE** may deem necessary or desirable to perfect the **ASSIGNEE**'s enjoyment of rights granted in said invention, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in any proceedings or transactions involving such applications or patents, including those relating to the enforcement of any rights or choses in action accruing as a result of said applications or patents, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the successors, assigns and legal representatives of me/us and **ASSIGNEE**;

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

Date: January 10, 2002

Name: Akifumi Higuchi

Akifumi HIGUCHI

Date: January 10, 2002

Name: T. Koizumi

Toyoharu KOIZUMI

Date: January 10, 2002

Name: Norihiro Ashizuka

Norihiro ASHIZUKA