

Form PTO-1595 (Rev. 03-01) OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. Department of Commerce U.S. Patent and Trademark Office

Tab settings ⇌ ⇌ ⇌

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

1. Name of conveying party(ies): Lew Chua-Eoan, Atsushi Hasegawa, and Hsuan-Wen Wang  
5.20.02  
Additional name(s) of conveying parties attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: Hitachi Ltd.  
Internal Address: \_\_\_\_\_  
Street Address: 6, Kanda-Surugadai 4-chome, Chiyoda-ku

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other: \_\_\_\_\_

City: Tokyo Country: Japan ZIP: 101-8010  
Additional names and addresses attached?  Yes  No

Execution Date: May 3, 2002 and May 13, 2002

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: May 3, 2002 and May 13, 2002

A. Patent Application No(s): 10/152653  
Additional numbers attached?  Yes  No

B. Patent No(s):

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Chad R. Walsh  
TOWNSEND AND TOWNSEND AND CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
(650) 326-2400

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

05/28/2002 6TON11 00000208 201430 10152653  
01 FC:581 40.00 CH

8. Deposit account number: 20-1430  
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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.*  
  
Chad R. Walsh \_\_\_\_\_ Signature \_\_\_\_\_ Date May 20, 2002  
Name of Person Signing \_\_\_\_\_  
Atty. Reg. No. 43,235 \_\_\_\_\_

Total number of pages including cover sheet, attachments and document 5

Mail documents to be recorded with required cover to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT OF PATENT APPLICATION**

JOINT

WHEREAS, Lew Chua-Eoan of 5771 Chambertin Drive, San Jose, California 95118; Atsushi Hasegawa of 718 Old San Francisco Road #301, Sunnyvale, California 94086; Hsuan-Wen Wang of 929 El Camino Real #438H, Sunnyvale, California 94087; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:           INTERFACE CIRCUIT

Date(s) of execution of Declaration:

Filing Date:                 Herewith

Application No.:             To Be Assigned; and

WHEREAS, Hitachi Ltd., located at 6, Kanda-Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, Japan, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

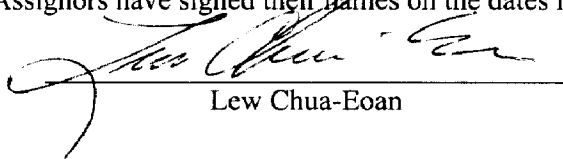
For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, California 94111-3834, to insert herein above the application number and filing date of said application when known.

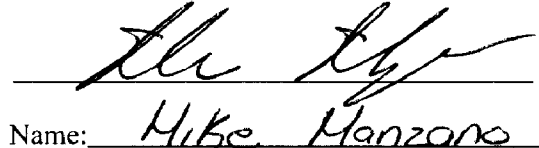
IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 5/13/2002

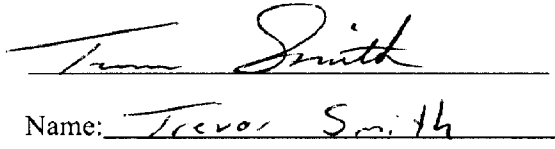
  
Lew Chua-Eoan

WITNESSES:


Dated: 5/13/2002

  
Name: Mike Manzono

Dated: 5-13-2002

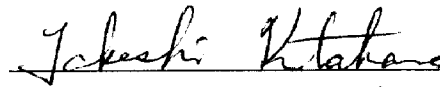
  
Name: Trevor Smith

Dated: 5/3/2002

  
\_\_\_\_\_  
Atsushi Hasegawa

WITNESSES:

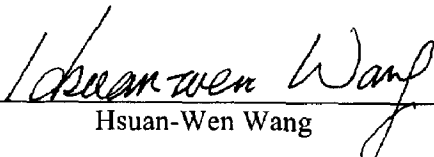
Dated: May 3, 2002

  
\_\_\_\_\_  
Name: Takeshi Kitahara

Dated: May 3, 2002

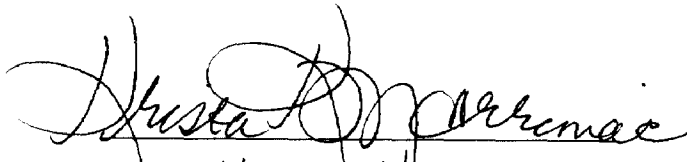
  
\_\_\_\_\_  
Name: ICHIRO NAKA

Dated: 5/13/2002

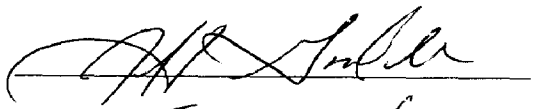
  
\_\_\_\_\_  
Hsuan-Wen Wang

WITNESSES:

Dated: 5/13/2002

  
\_\_\_\_\_  
Name: KRISTA H. MERRIMAN

Dated: 5/13/02

  
\_\_\_\_\_  
Name: JEFF A. GOODALL