

08-16-2002



SHEET

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J1036 U.S. PTO
10/215053
08/08/02

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): Rong-Fuh Shyu Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Winbond Electronics Corporation No. 4, Creation Road III Science-Based Industrial Park Hsinchu, Taiwan R.O.C. Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
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: <i>08/08/02</i> Execution Date: 05/31/02				
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: 05/31/02 A. Patent Application No(s): <i>10/215053</i> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No B. Patent No(s):				
5. Name/address of party to whom correspondence concerning document should be mailed: ELLEN SEIN AYE Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.			
DO NOT USE THIS SPACE				
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> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%; border-bottom: 1px solid black;"> Ellen Sein Aye Reg. No. 42,729 Name of Person Signing </td> <td style="width: 30%; border-bottom: 1px solid black; text-align: center;"> Signature </td> <td style="width: 30%; border-bottom: 1px solid black; text-align: center;"> <i>8/8/02</i> Date </td> </tr> </table>		Ellen Sein Aye Reg. No. 42,729 Name of Person Signing	 Signature	<i>8/8/02</i> Date
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Total number of pages including coversheet, attachments and document: 2				

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Date of Deposit: August 8, 2002

PATENT
REEL: 013188 FRAME: 0991

ASSIGNMENT

WHEREAS, Rong-Fuh SHYU
hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements
as described and set forth in the below identified application for United States Letters Patent:

Title: A METHOD AND APPARATUS FOR DIGITAL SIGNAL PROCESSING

Filed: _____ Serial No. _____

Executed on: May 31, 2002

WHEREAS, Winbond Electronics Corp. of No. 4, Creation Rd. III, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the
said invention and application and in any U.S. Letters Patent which may be granted on the
same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for
good and valuable consideration, receipt of which is hereby acknowledged by Assignor,
Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign
and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their
rights, title and interest in and to the said invention and application and all future
improvements thereon, and in and to any Letters Patent which may hereafter be granted on the
same in the United States, the said interest to be held and enjoyed by said Assignee as fully and
exclusively as it would have been held and enjoyed by said Assignor had this Assignment and
transfer not been made, to the full end and term of any Letters Patent which may be granted
thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion,
reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said
Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said
application and/or applications, execute, verify, acknowledge and deliver all such further
papers, including applications for Letters Patent and for the reissue thereof, and instruments of
assignment and transfer thereof, and will perform such other acts as Assignee lawfully may
request, to obtain or maintain Letters Patent for said invention and improvement, and to vest
title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the
date(s) indicated.

Rong-Fuh Shyu
Rong-Fuh SHYU

May 31, 2002
Date: