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

1. Name of conveying party(ies):

Uppili SRIDHAR, Victor D. SAMPER,
and Pang Dow FOO

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

Institute of Microelectronics
11 Science Park Road
Singapore Science Park II
Singapore 117685

3. Nature of conveyance: ASSIGNMENT

Effective Date: February 4, 1999

Execution Date(s): November 23, 2001, September 5, 2001,
September 10, 2001

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):

B. Patent No.(s):

~~09/890,575~~

Filing Date: PCT International Filing Date - February 4, 1999

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

Driscoll A. Nina
TYCO TECHNOLOGY RESOURCES
4550 New Linden Hill Road
Suite 450
Wilmington, DE 19808

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 3.41) \$40.00
AUTHORIZED TO BE CHARGED TO
DEPOSIT ACCOUNT

8. Deposit Account #23-1950

ATTACH DUPLICATE COPY OF THIS PAGE

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.

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

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Joseph A. Tessari
Joseph A. Tessari
Registration No. 32177
Attorney for Applicant(s)
Date: January 11, 2002

Docket No. 991174 US

PATENT
REEL: 012615 FRAME: 0522

ASSIGNMENT

We, Uppili SRIDHAR, Victor D. SAMPER and Pang Dow FOO, who reside respectively at:

8 Woodgrove Condominium, #01-32, Woodgrove Drive, Singapore 738210;
38 Dover Rise, Tower A, Dover Parkview #03-12, Singapore 138684; and
360 Pasir Panjang Road, #03-05, Singapore 118699

have made certain inventions or discoveries (or both) set forth in a PCT International Patent Application entitled:

"MICRO-RELAY"

which application was executed by the inventor(s) on the date(s) of execution of this assignment and is identified by file number 991174, and PCT International Patent Application No. PCT/SG99/00005 filed the 4th day of February, 1999,

and Institute of Microelectronics whose address is 11 Science Park Road, Singapore Science Park II, Singapore 117685

and which, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to me/us, receipt and sufficiency of which I/we hereby acknowledge, without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said PCT International Patent Application, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the empowered officials of all governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patent or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries, and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and

entirely as the same could have been held and enjoyed by me or my heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the 4th day of February, 1999.

In testimony whereof we have affixed our signatures.

Inventor 1: Uppili Sridhar Date: 23/11/2001
Uppili Sridhar

Witness 1: [Signature] Date: 23/11/2001

Witness 2: [Signature] Date: 23/11/2001

Inventor 2: Victor D. Samper Date: 5/9/01
Victor D. Samper

Witness 1: [Signature] Date: 5/9/01

Witness 2: [Signature] Date: 5/9/01

Inventor 3: Pang Dow Foo Date: 10/9/2001
Pang Dow Foo

Witness 1: [Signature] Date: 10/9/2001

Witness 2: [Signature] Date: 10/9/01