

05-17-1999

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TO THE ASSISTANT COMMISSIONER FOR PATENTS: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

AST Research, Inc.

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

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

Name: Samsung Electronics Co., LTD.

Internal Address: same as street address

Street Address: 416 Maetan-Dong, Paldal-Gu
Suwon City, Kyungki-Do, KOREA

Additional name(s) of receiving party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) April 21, 1999

4. Application number(s) or Patent number(s):

☐ Application(s) filed herewith Execution Date(s):☐ Patent Application No.:
Filing Date:☒ Patent No.: 5,220,651
Issue Date: June 15, 1993Additional numbers attached? ☐ Yes ☒ No

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

Name: Jerry T. Sewell
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995

Internal Address: Sixteenth Floor

Street Address: 620 Newport Center Drive

City: Newport Beach State: CA ZIP: 92660

Attorney's Docket No.: SAMCOM.400A

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

☒ Enclosed☒ Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

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.

Jerry T. Sewell
Name of Person SigningAPRIL 29, 1999
Date31,567
Registration No.

Total number of pages including cover sheet, attachments and document: 2

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

05/14/1999 JSHABAZZ 00000184 5220651

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Assistant Commissioner for Patents
Box Assignments
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ASSIGNMENT OF PATENT RIGHTS

WHEREAS, AST RESEARCH, INC., a Delaware corporation having offices at 16225 Alton Parkway, Irvine, California 92618 (hereinafter "AST"), represents and warrants that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which AST has been issued the following United States Letters Patent (hereinafter "the Patent"):

<u>Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
5,220,651	June 15, 1993	CPU-BUS CONTROLLER FOR ACCOMPLISHING TRANSFER OPERATIONS BETWEEN A CONTROLLER AND DEVICES COUPLED TO AN INPUT/OUTPUT BUS

WHEREAS, SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea corporation having offices at 416, Maetan-Dong, Paldal-Gu, Suwon City, Kyungki-Do, Korea (hereinafter "SAMSUNG") desires to purchase the entire right, title, and interest in and to the improvements and all inventions described, disclosed or claimed in the Patent;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) to AST, and other good and valuable consideration, the receipt of which is hereby acknowledged, AST hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto SAMSUNG, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the Patent, and all reissues, reexaminations, renewals, and extensions of the Patent, and all rights of priority under international conventions and applications for Letters Patent that may hereafter be filed for the improvements or the inventions in any country or countries foreign to the United States; and AST hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on the applications as aforesaid, to issue all Letters Patent for the Improvements or Inventions and all Letters Patents resulting from the applications aforesaid to SAMSUNG, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement;

AST does hereby sell, assign, transfer, and convey to SAMSUNG, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to SAMSUNG, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the Patent;

AST hereby covenants and agrees that it will communicate to SAMSUNG, its successors, legal representatives, and assigns any facts known to AST respecting the Patent immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving the Patent, will sign all lawful papers, execute all reissue applications, make all rightful oaths, and will generally do everything possible to aid SAMSUNG, its successors, legal representatives, and assigns to obtain and enforce the Patent and any counterpart thereof in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21 day of April, 1999.

AST RESEARCH, INC.

By: [Signature]

Koon Shik Choi
Chief Financial Officer

STATE OF CALIFORNIA

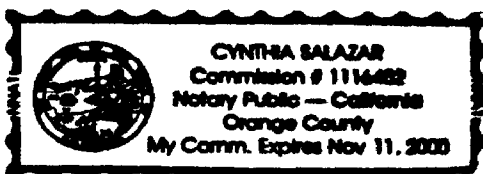
COUNTY OF ORANGE

} ss.

On April 21, 1999, before me, Cynthia Salazar, Notary Public, personally appeared Koon Shik Choi, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



[Signature]
Signature

PATENT

RECORDED: 05/03/1999

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