## Client Code: SAMSEM.195D2F

RECORDATI P.

## TO THE ASSISTANT COMMISSIONER FOR PATENTS: P

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

AST Research, Inc.

Additional name(s) of conveying party(ies) attached? Yes No  $(\mathbf{X})$ ()

ature of conveyance:

- (X) 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

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

Jerry T. Sewell Name: 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.: SAMSEM.195D2F

Total number of applications and patents involved: 1 6.

05-17-1999 

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py thereof.

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 ()(X)

- 4. Application number(s) or Patent number(s):
  - ()Application(s) filed herewith Execution Date(s):
  - Patent Application No .: ()Filing Date:
  - Patent No.: 5,809,559 (X) Issue Date: September 15, 1998

Additional numbers attached? () Yes (X)

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

(X) Enclosed

(X) 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.

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. ery T. Sewell

Jerry T. Sewell Name of Person Signing

31,567 Registration No.

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

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

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Assistant Commissioner for Patents Box Assignments Washington, D.C. 20231

APRIL 29, 1999

## 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"):

Patent No.	Issue Date	Title
5,809,559	September 15, 1998	SYSTEM AND METHOD UTILIZING A VIRTUAL ADDRESSING BUFFER CIRCUIT TO EMULATE A DEVICE WHICH IS PHYSICALLY NOT PRESENT

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 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 $2/$ day of April, 1	.999	).
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AST RESEARCH, INC.

hac By: Koon Shik Choi

Chief Financial Officer

STATE OF CALIFORNIA

COUNTY OF ORANGE

[SEAL]

SS. alazar, Notary Public, personally appeared · Inthia 1999, before me, (

Koon Shik Choi, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person( $\mathbf{s}$ ) whose name( $\mathbf{s}$ ) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity( $\mathbf{ics}$ ), and that by his signature( $\mathbf{s}$ ) on the instrument the person( $\mathbf{s}$ ), or the entity upon behalf of which the person( $\mathbf{s}$ ) acted, executed the instrument.

WITNESS my hand and official seal.

CYNIHA & Nov 11, 2000

hia Jalazar Signafu

PATENT REEL: 009942 FRAME: 0170

RECORDED: 05/03/1999