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(Rev. 3-93)

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents a

al documents or copy thereof.

1. Name of conveying party(ies):

- 1) Jung-wan KO
- 2) In-sik PARK

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

SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-Dong, Paldal-Gu
Suwon City, Kyungki-Do, KOREA 442-742



3. Nature of conveyance:

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Execution Date(s): September 23, 2000

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

This document is being filed together with a new application:

- (a) The execution date(s) of the application is/are: *
 - (b) The title is: *
- *** OR ***

This document is being filed after filing of the application:

- (a) Patent Application No(s). 09/609,821, filed July 3, 2000; or
- (b) Patent No(s). _____, issued _____.

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

STAAS & HALSEY LLP
Attention: Stephen T. Boughner
700 Eleventh Street, N.W., Suite 500
Washington, D.C. 20001

Our Docket: 1293.1081CIP/STB

6. Total number of applications and patents involved: 1

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

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Enclosed |
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8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
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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.

Stephen T. Boughner, Reg. No. 45,317
Name of Person Signing

Signature

10/23/00
Date

Total number of pages including cover sheet: 2

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\$ 40.00

U.S. ASSIGNMENT

Docket No. 1293.1081CIP

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

Samsung Electronics Co., Ltd.

416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do

Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

APPARATUS FOR ASSIGNING SPARE AREAS FOR DEFECT MANAGEMENT AND APPARATUS FOR HANDLING

FRAGMENTED ECC BLOCKS

relating to International Patent Application PCT/JP _____ / _____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on July 3, 2000,

Serial No. 09/609,821;

Any registered attorney of STAAS & HALSEY LLP, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

- | | | | |
|----|-----------------------------------|--------------------------|-------|
| 1) | <u>Jung-wan KO</u>
Jung-wan KO | <u>23 September 2000</u> | _____ |
| 2) | <u>In-sik PARK</u>
In-sik PARK | <u>23 September 2000</u> | _____ |
| 3) | _____ | _____ | _____ |
| 4) | _____ | _____ | _____ |