

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tokashiki Ken	07/30/2010
Chul-ho Shin	07/30/2010
Sang-kuk Kim	08/03/2010
Do-haing Lee	07/30/2010
Dong-seok Lee	07/30/2010

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.
Street Address:	416, Maetan-dong, Yeongton-gu
City:	Suwon-si, Gyeonggi-do
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12871251

CORRESPONDENCE DATA

Fax Number: (617)742-7774
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Email: mail@millsonello.com
 Correspondent Name: Anthony P. Onello, Jr.
 Address Line 1: 11 Beacon Street
 Address Line 2: Suite 605
 Address Line 4: Boston, MASSACHUSETTS 02108

ATTORNEY DOCKET NUMBER:	SAM-1497
-------------------------	----------

NAME OF SUBMITTER:	Anthony P. Onello, Jr.
--------------------	------------------------

Total Attachments: 3
 source=1497_execassign#page1.tif

OP \$40.00 12871251

501277431

**PATENT
 REEL: 024916 FRAME: 0352**

source=1497_execassign#page2.tif

source=1497_execassign#page3.tif

Attorney Reference No.: 6

ASSIGNMENT

We,

Tokashiki Ken, of A-1520, Baekgung Dongyang Paragon Officetel, Jeongja-dong, Bundang-
Seongnam-si, Gyeonggi-do, Republic of Korea;

Chul-ho Shin, of 203-1301, Sinjeong Maeul Hyundai Prime Apt., Pungdeokcheon 2-d
Yongin-si, Gyeonggi-do, Republic of Korea;

Sang-kuk Kim, of Rm. 1706, Character Greenville, 729-24, Bongcheon-dong, Gwanak-gu. cou
Republic of Korea;

Do-haing Lee, of 101-1103, Hanil Town Apt., Byeongjeom-dong, Hwaseong-si, Gyeo
Republic of Korea;

and Dong-seok Lee, of 627-904, Naru Maeul Hanwa Dream-Green Apt., Bansong-dong,
Hwaseong-si, Gyeonggi-do, Republic of Korea;

having invented improvements in METHOD OF MANUFACTURING SEMICONDUCTOR
DEVICE identified as Attorney Docket No. SAM-1497, described in an application for Letters Patent of the
United States, which application was filed on _____, and assigned Serial No.

_____ (in the event that the execution date, filing date and/or Serial No. are not entered abo
at the time we execute this document, and if such information is deemed necessary, we hereby au
request our attorneys at Mills & Onello, LLP, Eleven Beacon Street, Suite 605, Boston, Massac
02108, USA, to insert above the execution date, filing date and/or Serial No. of said application, wh
known), for good and valuable consideration, receipt of which is hereby acknowledged from Samsung
Electronics Co., Ltd., a Korean corporation having a place of business at 416, Maetan-dong, Yeongtong-g
Suwon-si, Gyeonggi-do, Republic of Korea (and hereinafter called the Assignee, which term shall include i
successors and assigns), do hereby sell, assign and transfer unto the Assignee our entire right, title, and
interest in and throughout the United States of America (including its territories and dependencies) and a
countries foreign thereto, in and to and under said application (which term shall include hereinafte
context so admits all divisional, continuing, reissue and other patent applications based thereon)
inventions (which term shall include each and every such invention, or part thereof) therein described, a
any and all patents and like rights of exclusion (including extensions thereof) of any country which may
granted on or for said inventions or on said application;

And for the same consideration We do also hereby sell, assign, and transfer unto the Assignee, a
our rights under the International Convention for the Protection of Industrial Property, the Patent
Cooperation Treaty, and all other treaties of like purpose in respect of said inventions and said ap
and We do hereby authorize the Assignee to apply in our name or its own name or its designee for
like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the
priority of the filing date of said application under the provisions of said Convention, Treaty or any such
other Convention or Treaty;

Attorney Refe

And for the same consideration, We do hereby agree for ourselves and for our heirs, executors, administrators, promptly upon request of the Assignee to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other applications for patent or patents or like rights of exclusion of any country, or other lawful means any further assurances that may be deemed necessary or desirable by the Assignee, fully to secure right, title, and interest as aforesaid in and to said inventions, applications, and said several patents rights of exclusion (including extensions thereof) or any of them, all, however, at the expense of the Assignee its successors, or assigns;

And We do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee and all patents and like rights of exclusion which may be granted in any country upon said United States application on or for said inventions;

And We do hereby covenant for ourselves and our legal representatives and agree with the Assignee that We have granted no right or license to make, use, or sell said inventions to anyone except the Assignee that prior to the execution of this deed our right, title, and interest in and to said inventions has not been otherwise encumbered by us, and that We have not executed and will not execute any instruments in connection herewith.

First or Sole Inventor:

Signature:

Ken Tokashiki
Tokashiki Ken

Date: 2010.7.30

Second Joint Inventor:

Signature:

Chul-ho Shin
Chul-ho Shin

Date: 2010.7.30

Third Joint Inventor:

Signature:

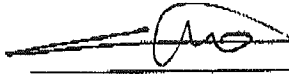
Sang-kuk Kim
Sang-kuk Kim

Date: 2010.8.3

Attorney Reference

Fourth Joint Inventor:

Signature:




Do-haing Lee

Date: 2010 July 30

Fifth Joint Inventor:

Signature:



Dong-seok Lee

Date: 2010 July 30

ATTORNEY REFERENCE NO.: SAM-1497
J:\SAM\1497\1497_ASSIGNMENT-MULT-INV.DOC