

05-21-2008



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SHEET

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

1. Name of conveying party(ies):

**Junhee CHOI and**

**Andrei ZOULKARNEEV**

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

☐ YES ☒ NO

3. Nature of conveyance:

☒ Assignment ☐ Merger ☐ Security Agreement

☐ Change of Name ☐ Other:

Execution Date: 5/2/2008 and 5/2/2008

2. Name and address of receiving party(ies)

Name: **Samsung Electronics Co., Ltd.**

Street Address: **416 Maetan-dong, Yeongtong-gu**

City: **Suwon-si**

State: **Gyeonggi-do**

Country: **Republic of Korea**

Additional name(s) & address(es) attached? ☐ YES ☒ NO

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: **5/2/2008 and 5/2/2008**

A. Patent Application No(s).

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

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

Name: **HARNESS, DICKEY & PIERCE, P.L.C.**

Street Address: **P.O. BOX 8910**

City: **RESTON** State: **VA** ZIP: **20195**

Country: **USA**

6. Total No. of applications/patents involved: **One (1)**

7. Total fee (37 C.F.R. § 3.41): **\$40.00**

☒ Enclosed

☐ Authorized to be charged to deposit account, if no fee attached.

8. Deposit account number: **08-0750**

(Attach triplicate copy of this page if paying by 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.*

**John A. Castellano, #35,094**

Name of Person Signing/Reg. No.

Signature

**May 9, 2008**

Date

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

JAC:ey

05/12/2008 JADD01 00000069 12149947  
04 FC:8021 40.00 0P

Atty. Docket No. :

## ASSIGNMENT

WHEREAS, the undersigned hereinafter referred to collectively as Assignor, has  
Invented:

**MICRO-HEATERS, MICRO-HEATER ARRAYS, METHODS FOR  
MANUFACTURING THE SAME AND ELECTRONIC DEVICES  
USING THE SAME**

for which Assignor is about to make or has made United States or International application for  
patent

- (a) ☒ executed on even date preparatory to filing (each inventor should sign  
this Assignment on the same day as he/she signs the Declaration and  
Power of Attorney);
- (b) ☐ executed on \_\_\_\_\_, \_\_\_\_\_; or
- (c) ☐ filed on \_\_\_\_\_ and assigned Serial No. \_\_\_\_\_ or PCT International  
Application No. \_\_\_\_\_;
- (d) ☐ U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_; and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-  
si, Gyeonggi-do, Republic of Korea, and hereinafter referred to as Assignee, is desirous of  
acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy  
whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto  
Assignee and its successors in interest, the full and exclusive right, title and interest in the United  
States of America and all foreign countries, including the right to claim priority under the laws of  
the United States, the Paris Convention, and any foreign countries, to the said invention as  
described in the aforesaid application, said application for patent and all Letters Patent therefor  
to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are  
granted and any extensions thereof as fully and entirely as the same would have been held by  
Assignor had this assignment and sale not been made, and the right to recover for past  
infringements of, or liabilities for, any of the rights relating to any of said applications or patents  
resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required  
or requested for the making and prosecution of any applications of any type for patent in the  
United States and in all foreign countries including, but not limited to, any provisional,  
continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters  
patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the  
purpose of protecting title and to the said invention, the United States application for patent, or  
Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without  
further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has  
been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said  
Letters Patent of the United States of America to Assignee, and requests that any official of any  
country or countries foreign to the United States, whose duty it is to issue or grant patents and  
applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's  
Certificate to Assignee.


The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the  
power to insert on this Assignment any further identification which may be necessary or  
desirable in order to comply with the rules of the U.S. Patent and Trademark Office for  
recordation of this document.

Atty. Docket No. :

# ASSIGNMENT

  
\_\_\_\_\_  
JUNHEE CHOI

May 2, 2008  
\_\_\_\_\_  
Dated

  
\_\_\_\_\_  
Andrei Zoufkarneev

2008. 5. 2  
\_\_\_\_\_  
Dated