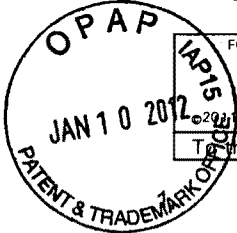


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U.S. DEPARTMENT OF COMMERCE

Staas & Halsey LLP

To the Director of the U.S. Patent and Trade...

ient.

Name of conveying parties:

- 1) Sang Ho LEE
- 2) Tah Joon PARK
- 3) Yong Il KWON
- 4) Gyung Hee HONG

2. Name and Address of receiving party:

SAMSUNG ELECTRO-MECHANICS CO., LTD.
314 Maetan-3-dong, Yeongtong-gu,
Suwon, Gyunggi-do,
Republic of Korea

3. Nature of conveyance:

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Execution Date(s): December 20, 2011

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

- This document is being filed together with a new application.
- OR
- This document is being filed after filing of the application:
 - (a) Patent Application No(s). 13/347,241, filed January 10, 2012; or
 - (b) Patent No(s).

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

STAAS & HALSEY LLP Our Docket: 1938.1443
 Attention: David M. Pitcher
 1201 New York Ave., N.W., 7th Floor
 Washington, D.C. 20005

6. Total number of applications and patents involved: 1

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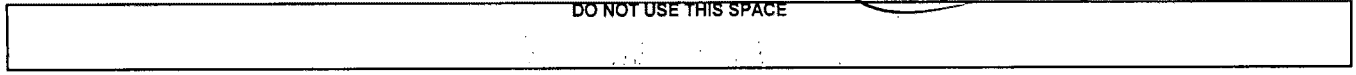
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David M. Pitcher, Reg. No. 25,908
 Name of Person Signing

David M. Pitcher Signature
January 10, 2012 Date

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U.S. ASSIGNMENT

5.8.11.7.03

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 ELECTRO-MECHANICS CO., LTD.
314 Maetan-3-dong, Yeongtong-gu, Suwon, Gyeonggi-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
TOUCH SENSING APPARATUS AND OPERATING METHOD THEREOF

relating to International Patent Application PCT/_____/_____ 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)

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Serial No. ____/____;

Any registered attorney of STAAS & HALSEY LLP, 1201 New York Ave., N.W., Suite 700, Washington, D.C. 20005 (202)434-1500 is hereby authorized to insert in (b) the specified data, when known.

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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) LEE Sang Ho December 20, 2011 _____
LEE, Sang Ho
- 2) Park Tah Joon Dec. 20, 2011 _____
PARK, Tah Joon
- 3) Kwon Yong Il Dec. 20, 2011 _____
KWON, Yong Il
- 4) Hong Kyung Hee Dec. 20, 2011 _____
HONG, Gyung Hee