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(71) Applicant (for all designated States except US): **SAM-SUNG ELECTRONICS CO., LTD.** [KR/KR]; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742 (KR).

(72) Inventors: **SEO, Joon-Kyu**; #214-601, Mujigaemaoul LG APT., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-705 (KR). **KIM, Hyun-Jin**; #21-306, Woosung APT., Seocho 2-dong, Seocho-gu, Seoul 137-773 (KR). **LEE, Ju-Youn**; #A-2506, Intellige Il, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-841 (KR). **PARK, Min-Kyu**; #1005-1404, Mujigaemaoul Samsung

APT., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-706 (KR).

(74) Agent: **LEE, Keon-Joo**; Mihwa Bldg. 110-2, Myongryundong 4-ga, Chongro-gu, Seoul 110-524 (KR).

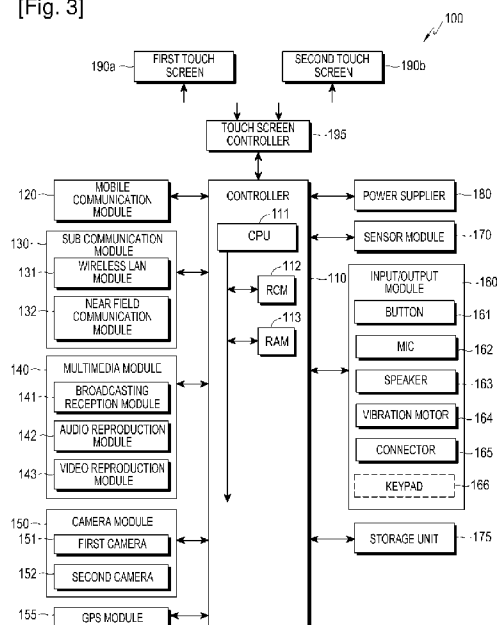
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[Continued on next page]

(54) Title: APPARATUS INCLUDING MULTIPLE TOUCH SCREENS AND METHOD OF CHANGING SCREENS THEREIN

[Fig. 3]



(57) Abstract: An apparatus and method of changing screens using multiple touch screens. The method includes displaying a first screen in a first touch screen; displaying a second screen in a second touch screen; detecting multiple touches in the first touch screen; detecting continuous movements of the multiple touches from the first touch screen to the second touch screen; and changing the second screen of the second touch screen in response to the continuous movements of the multiple touches.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 3/03; G06F 3/048; H04M 1/00; G06F 3/041; G09G 5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: touch, screen, multiple, double, first, second, drag

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2010-250463 A (SONY CORP) 04 November 2010 See abstract; paragraphs 54-64; claim 6; figures 7-10.	1-6, 8-12 7
A	JP 2010-262330 A (SONY CORP) 18 November 2010 See abstract; claims 1-9; figures 1-9.	1-12
A	JP 2010-250465 A (SONY CORP) 04 November 2010 See abstract; claims 1-3; figures 5-7.	1-12
A	JP 2011-022842 A (SONY CORP) 03 February 2011 See abstract; paragraphs 89-95; claims 1-4; figure 13.	1-12



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&" document member of the same patent family

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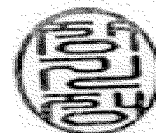
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Jang, Gi Jeong

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2010-250463 A	04.11.2010	BR PI1000982 A2 CN 101866238 A EP 2241962 A2 RU 2010113367 A US 2010-0259494 A1	26.07.2011 20.10.2010 20.10.2010 20.10.2011 14.10.2010
JP 2010-262330 A	18.11.2010	CN 101876881 A US 2010-0281363 A1	03.11.2010 04.11.2010
JP 2010-250465 A	04.11.2010	CN 101866263 A EP 2241963 A1 RU 2010113678 A US 2011-0018821 A1	20.10.2010 20.10.2010 20.10.2011 27.01.2011
JP 2011-022842 A	03.02.2011	CN 101957720 A US 2011-0016422 A1	26.01.2011 20.01.2011