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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(H))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(in))

[Continued on nextpage]

(54) Title: TOUCH SENSITIVE DEVICE WITH MULTILAYER ELECTRODE AND UNDERLAYER

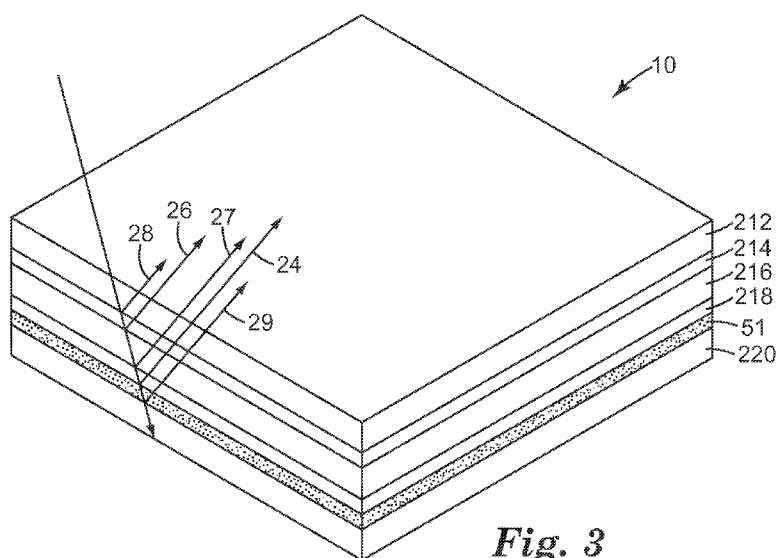


Fig. 3

(57) Abstract: A touch sensor including one or more multilayer electrodes and an underlayer disposed on a substrate. The underlayer is disposed between the multilayer electrodes and the substrate. The multilayer electrodes including at least two transparent or semitransparent conductive layers separated by a transparent or semitransparent intervening layer. The intervening layer includes electrically conductive pathways between the first and second conductive layers to help reduce interfacial reflections occurring between particular layers in devices incorporating the conducting film or electrode.



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INTERNATIONAL SEARCH REPORT

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PCT/US2012/040871**A. CLASSIFICATION OF SUBJECT MATTER****G06F 3/044(2006.01)i**

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 3/044; H01J 1/88; H01L 51/52; G02F 1/1333; G06F 3/045; G06F 3/041; H01J 9/00

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: capacitive touch, underlayer, pattern, electrode, dielectric, insulate and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2011-0008453 A (WORLD VISION CO., LTD.) 27 January 2011 See abstract ; paragraphs [0018] , [0029] , [0042] -[0045] , [0051] , [0074] ; claim 1; and figures 4-5 .	1-4 ,9 ,13-21
A		5-8 ,10-12
Y	US 2011-0036391 A1 (MCCORMICK, FRED B. et al.) 17 February 2011 See abstract ; paragraphs [0027] -[0030] ; claims 1-6 ; and figure 1.	1-4 ,9 ,13-21
A		5-8 ,10-12
A	KR 10-2008-0092633 A (HYUPJIN I&C CO., LTD.) 16 October 2008 See abstract ; paragraphs [0032] -[0036] ; claim 1; and figure 5.	1-21
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A	US 2010-0194709 A1 (TAMAKI, MASAYA et al.) 5 August 2010 See abstract ; paragraphs [0101] -[0113] ; claim 1; and figure 1.	1-21



Further documents are listed in the continuation of Box C.



See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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Information on patent family members

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