Title: TFT SENSOR HAVING IMPROVED IMAGING SURFACE

Abstract: Disclosed is an image capture sensor (100) including a light detection transistor (112) having a light sensitive layer which conducts electricity in response to detection of a predetermined amount of light and a switch (113) interconnected to the light detection transistor and responsive to detection of light by the light detection transistor. A glass substrate (111) is layered over both the light detection transistor and switch. The glass substrate provides a durable and smooth surface upon which a patterned object to be imaged is placed.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06K 9/00; H01L 27/00, 29/15
US CL. : 382/124; 250/208.1; 257/72

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)

U.S. : 382/115,116,124,125,126; 250/208.1,214R,553.5; 257/59,72,350,E29.151,ES1.005; 345/92; 385/130

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

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

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 4,932,776 A (DOWLING, JR. et al.) 12 June 1990 (12.06.1990), columns 3-4</td>
<td>5-7,12,14-19</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,907,627 A (BORZA) 25 May 1999 (25.05.1999), column 1.</td>
<td>1-13</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.  See patent family annex.

Date of the actual completion of the international search

02 March 2004 (02.03.2004)

Name and mailing address of the ISA/US

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Date of mailing of the international search report

26 MAR 2004

Authorized Officer

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Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:
IEEE
search terms: tft, fingerprint, image sensor