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(54) Title: IMPROVED METHOD AND APPARATUS FOR OPTICALLY TRANSPARENT VIA FILLING

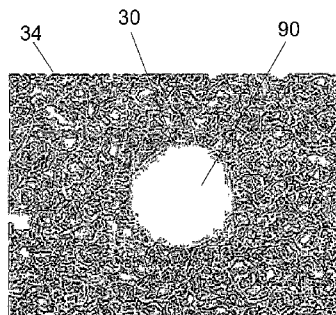


Fig 5

(57) Abstract: A method and apparatus for filling a via 16 with transparent material 18 is presented, including the steps of providing a panel 10 having a via 16, occluding the via 16 with transparent material 18 in a workable state so that a portion of the occluding material 18 is internal to the via 16 and a portion of the material is external 54 to the via 16. The external 54 and internal portions are separated so the transparent filler material 18, when set, forms a smooth and featureless surface 12. This causes the filled via 16 to have a substantially even and uniform appearance over a wide range of viewing angles when lit.



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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2009/054485****A. CLASSIFICATION OF SUBJECT MATTER*****F21V 17/00(2006.01)i, G02B 6/10(2006.01)i, B29D 11/00(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)

IPC: F21V 17/00; G02B 6/10; B29D 11/00

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) &amp; Keywords: via, filling, transparent

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007-0291496 A1 (NASHNER, S. M. et al.) 20 December 2007 See the abstract; paragraphs [33] and [38]; figures 1 and 16.	1-18
A	US 6416844 B1 (ROBSON, THOMAS) 09 July 2002 See the abstract; column 5, line 1 - column 6, line 17; figures 1-3.	1-18
A	JP 07-201260 A (YAMATAKE HONEYWELL CO., LTD.) 04 August 1995 See the abstract; paragraphs [10]-[11]; figures 1-6.	1-18
A	US 4155972 A (HAUSER, D. A. et al.) 22 May 1979 See the abstract; claim 1; figures 1-9.	1-18



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&amp;" document member of the same patent family

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Information on patent family members

International application No.

**PCT/US2009/054485**

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