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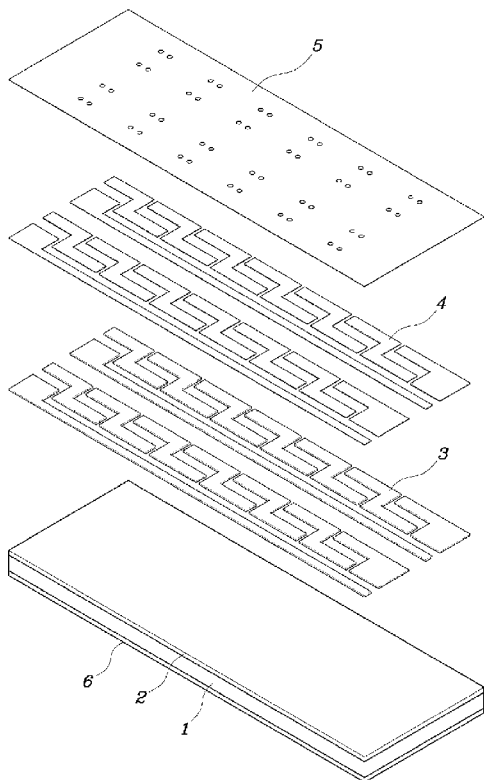
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(54) Title: A LED ARRAY BOARD

[Fig. 1]



(57) Abstract: The present invention directed to a LED array board provides a LED array board comprising an aluminum base layer, an alumina insulating layer formed by anodizing monolithically on the aluminum base layer and a layer of electric circuit printed directly on the insulating layer with paste including conductive particles and heat-resistant binder. The present invention provides a LED array board with efficient structure for heat radiation by forming an insulating layer monolithically on the base layer, which can be as a densely arrayed board for high brightness. Forming electrode circuit by direct printing with conductive paste comprising conductive particles and heat resistant binder, integrated with the structure of board mentioned above, simplifies the manufacturing process, shortens cost and time for manufacture, and minimizes waste, while the binder of the paste increases the insulation of the alumina layer and adhesion force on the alumina layer.



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A. CLASSIFICATION OF SUBJECT MATTER***H01L 33/64(2010.01)i***

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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

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eKOMPASS(KIPO internal) & Keywords: aluminium, anodizing, paste, print

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y A	JP 2008-091459 A (ROHM CO., LTD.) 17 April 2008 See the abstract and figure 1	8 1-7, 9-12
Y A	KR 10-2009-0030192 A (PHOENIX PRECISION TECHNOLOGY CO.) 24 March 2009 See paragraph [0013]	9 1-8, 10-12
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X A	KR 10-2005-0054813 A (INTERNATIONAL RESISTIVE COMPANY OF TEXAS, L.P.) 10 June 2005 See the abstract	1 2-12



Further documents are listed in the continuation of Box C.



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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Information on patent family members

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