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- (71) Applicant (for all designated States except US): **MI-CRON TECHNOLOGY, INC.** [US/US]; 8000 S. Federal Way, P.O. Box 6, Boise, ID 83707-0006 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **SCHUBERT, Martin, F.** [US/US]; 3914 S. Globe Theatre Avenue, Boise, ID 83716 (US).
- (74) Agents: **SPORER, Nicole, C.** et al.; Perkins Coie LLP, P.O. Box 1247, Seattle, WA 98111-1247 (US).
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(54) Title: ARRAY ASSEMBLIES WITH HIGH VOLTAGE SOLID STATE LIGHTING DIES

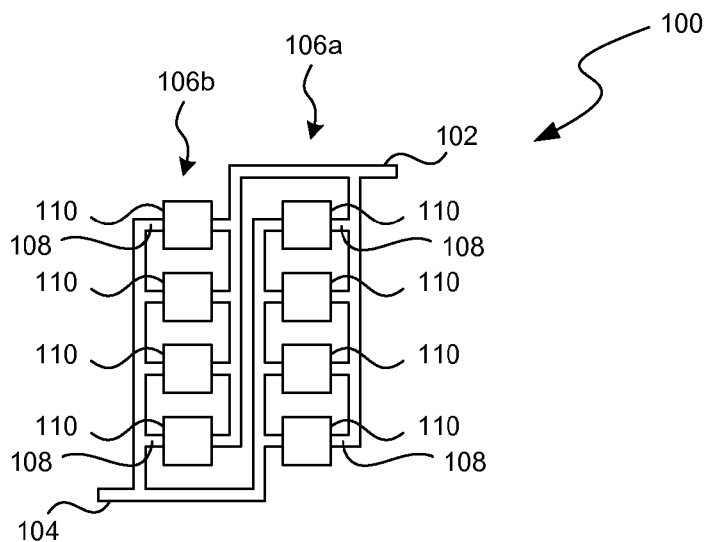


FIG. 1A

(57) Abstract: Various embodiments of solid state lighting ("SSL") assemblies with high voltage SSL dies and methods of manufacturing are described herein. In one embodiment, an array assembly of SSL dies includes a first terminal and a second terminal configured to receive an input voltage (V_o). The array assembly also includes a plurality of SSL dies coupled between the first terminal and the second terminal, at least some of which are high voltage SSL dies coupled in parallel.

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A. CLASSIFICATION OF SUBJECT MATTER**H01L 27/15(2006.01)i, H01L 33/48(2010.01)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)

H01L 27/15; F21S 2/00; H01L 21/50; H05B 37/02; H01L 33/00; H01L 21/58; H01L 21/00

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:'solid state light emitting, LED, array assembly, flux,die area, forward junction voltage'

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 7821023 B2 (YUAN THOMAS et al.) 26 October 2010 See figures 3-12; column 6, line 10 - column 16, line 62	12-14 1-11,15-24
A	US 2010-0133554 A1 (HUSSELL CHRISTOPHER P.) 03 June 2010 See figure 1; paragraphs [0040]-[0041]; claim 1	1-24
A	US 2008-0280384 A1 (HUNG CHIA-HUNG et al.) 13 November 2008 See figure 1-3B; paragraphs [0028]-[0034]	1-24
A	US 2010-0224890 A1 (KELLER BERND et al.) 09 September 2010 See figure 8; paragraph [0056]	1-24

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

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Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
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Authorized officer

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Information on patent family members

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