

Title (en)
Light emitting diode printhead.

Title (de)
Leuchtdiodendruckkopf.

Title (fr)
Tête d'impression à diode électroluminescente.

Publication
EP 0510274 A1 19921028 (EN)

Application
EP 91303844 A 19910425

Priority
EP 91303844 A 19910425

Abstract (en)
A printhead for a light emitting diode printer has a transparent substrate (10) with a row of LED dice (11) mounted on the substrate with their light emitting junctions adjacent to the substrate. Each die has a row of LEDs along its length and a row of connection pads (38) at known locations for making electrical connection to the LED anodes. Metal lines (24,42) are deposited on the transparent substrate at known locations. Solder bumps (44) between the connection pads (38) and metal lines (42) precisely position the dice (11) by reason of surface tension. The dice may be positioned in parallel rows with alternate dice staggered from each other for electrical isolation and to avoid mechanical interference at the ends of adjacent dice. <IMAGE>

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B41J 2/45; G06K 15/12

IPC 8 full level
B41J 2/45 (2006.01)

CPC (source: EP)
B41J 2/45 (2013.01); **B41J 19/20** (2013.01)

Citation (search report)
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• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 14 (M-352)(1737) 22 January 1985 & JP-A-59 164 161 (OONISHI) 17 September 1984
• [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 356 (M-745)(3203) 26 September 1988 & JP-A-63 112 172 (UEHARA) 17 May 1988
• [A] XEROX DISCLOSURE JOURNAL vol. 10, no. 6, December 1985, pages 313 - 320; 'HIGH RESOLUTION, HIGH FREQUENCY INFRARED LED PRINTING ARRAY AND FABRICATION METHOD'

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