

Title (en)  
An optical scanning device.

Title (de)  
Optische Abtastvorrichtung.

Title (fr)  
Dispositif de balayage optique.

Publication  
**EP 0618078 A3 19950104 (EN)**

Application  
**EP 94400656 A 19940328**

Priority  
JP 6952193 A 19930329

Abstract (en)  
[origin: EP0618078A2] An optical scanning device characterized in that a light emitting element array (2) and an auto focussing light source element (3) for adjusting a distance between said light emitting element array and an object (5) to be scanned by said light emitting element (2) array are integrated on a single chip (1) of a semiconductor substrate.

IPC 1-7  
**B41J 2/435**

IPC 8 full level  
**B41J 2/44** (2006.01); **B41J 2/45** (2006.01); **B41J 2/455** (2006.01); **G02B 7/28** (2006.01); **G06K 7/015** (2006.01); **H01L 33/08** (2010.01); **H01L 33/20** (2010.01); **H01L 33/30** (2010.01); **H01L 33/58** (2010.01)

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

Citation (search report)  
• [A] US 5016027 A 19910514 - UEBBING JOHN J [US]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 575 (M - 1062) 20 December 1990 (1990-12-20)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 420 (M - 1023) 11 September 1990 (1990-09-11)  
• [PA] PATENT ABSTRACTS OF JAPAN vol. 18, no. 126 (P - 1702) 2 March 1994 (1994-03-02)

Cited by  
EP0916506A3; US5963242A; EP0785077A3; US7598973B2; US6236416B1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0618078 A2 19941005; EP 0618078 A3 19950104; JP H06302855 A 19941028**

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