

Title (en)

Ink jet printing head and production method thereof

Title (de)

Tintenstrahldruckkopf und dessen Herstellungsverfahren

Title (fr)

Tête d'imprimante à jet d'encre et son procédé de fabrication

Publication

EP 1027990 A1 20000816 (EN)

Application

EP 00102071 A 20000202

Priority

JP 2482399 A 19990202

Abstract (en)

Protruding portions of thermosetting adhesive 9 at stepped portions of a nozzle communication hole 14 and a nozzle hole 15 are hardened beforehand by ultraviolet ray, so as to suppress flow out of the thermosetting adhesive 9 during heating-hardening. This prevents ink clogging in the supply hole 12, nozzle communication hole 14, nozzle hole 15, enabling a stable ink discharge, and assures air tightness between the respective plates from the nozzle plate 2 to the vibration plate 7. <IMAGE>

IPC 1-7

B41J 2/16

IPC 8 full level

B41J 2/045 (2006.01); **B41J 2/055** (2006.01); **B41J 2/14** (2006.01); **B41J 2/16** (2006.01)

CPC (source: EP)

B41J 2/14274 (2013.01); **B41J 2/161** (2013.01); **B41J 2/1623** (2013.01); **B41J 2002/14387** (2013.01); **B41J 2002/14419** (2013.01)

Citation (search report)

- [XY] EP 0839655 A2 19980506 - SEIKO EPSON CORP [JP]
- [XY] WO 8907752 A1 19890824 - SPECTRA INC [US]
- [Y] EP 0830945 A1 19980325 - SONY CORP [JP]
- [A] US 5852456 A 19981222 - OKADA SHIGEKI [JP], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 02 28 February 1997 (1997-02-28)

Cited by

EP1375148A1; CN102407667A; US6955418B2; US7611231B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1027990 A1 20000816; JP 2000218790 A 20000808; JP 3056195 B1 20000626

DOCDB simple family (application)

EP 00102071 A 20000202; JP 2482399 A 19990202