

Title (en)

Method of manufacturing an inkjet printhead

Title (de)

Herstellungsverfahren für einen Tintenstrahldruckkopf

Title (fr)

Procédé de fabrication d'une tête d'impression à jet d'encre

Publication

**EP 0726152 A3 19961009 (DE)**

Application

**EP 96250101 A 19930112**

Priority

- DE 4225799 A 19920731
- EP 93250012 A 19930112

Abstract (en)

[origin: EP0581395A2] An ink jet print head according to the edge shooter principle, wherein a part bearing chambers is fitted with means for supplying and discharging ink from a chamber assigned in each case to a nozzle. Arranged in each part bearing chambers is a group of chambers on the side facing a central part, and a single row of nozzles which has nozzle groups (1.1, 1.2, 1.3, 1.4, ...) belonging to k chamber groups (101, 102, 103, 104, ...) lies at the end edge of a first part bearing chambers. The first nozzle group (1.1) is connected to the chamber group (101) located in the same part, and the other k-1 nozzle groups (1.2, 1.3, 1.4, ...) are connected to the associated chamber groups (102, 103, 104, ...), the chamber groups being supplied with ink from a suction compartment (151, 152, 153, 154) and lying in other parts bearing chambers and arranged vertically offset. After a pretreatment of the plate material from which the print head is made, masking and etching of the plates take place in a parallel plate processing operation for all the individual parts. Separate finished individual parts are connected and contacted to form a module.  
<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 US)

**B41J 2/14233** (2013.01 - EP US); **B41J 2/161** (2013.01 - EP US); **B41J 2/1623** (2013.01 - EP US); **B41J 2/1626** (2013.01 - EP US); **B41J 2/1631** (2013.01 - EP US); **B41J 2/1632** (2013.01 - EP US); **B41J 2/1646** (2013.01 - EP US); **B41J 2002/14362** (2013.01 - EP US); **B41J 2002/14379** (2013.01 - EP US); **B41J 2002/14387** (2013.01 - EP US); **Y10T 29/42** (2015.01 - EP US); **Y10T 29/49401** (2015.01 - EP US)

Citation (search report)

- [A] US 4752788 A 19880621 - YASUHARA TAKESHI [JP], et al
- [A] US 4897903 A 19900206 - JOHANNSEN FRED [DE]
- [A] EP 0067653 A2 19821222 - KONISHIROKU PHOTO IND [JP]
- [A] US 4769654 A 19880906 - TANAKA YASUHIKO [JP], et al
- [A] EP 0486256 A2 19920520 - CITIZEN WATCH CO LTD [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 67 (M - 566)<2514> 28 February 1987 (1987-02-28)
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 107 (M - 378)<1830> 11 May 1985 (1985-05-11)

Cited by

DE202017106430U1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 0581395 A2 19940202**; **EP 0581395 A3 19940824**; **EP 0581395 B1 19970319**; CA 2101683 A1 19940201; CA 2101683 C 19981124; DE 4225799 A1 19940203; DE 59305846 D1 19970424; DE 59310165 D1 20010523; EP 0726152 A2 19960814; EP 0726152 A3 19961009; EP 0726152 B1 20010418; JP 2001293866 A 20011023; JP 3199917 B2 20010820; JP 3466577 B2 20031110; JP H06155739 A 19940603; US 5592203 A 19970107; US 5802687 A 19980908

DOCDB simple family (application)

**EP 93250012 A 19930112**; CA 2101683 A 19930730; DE 4225799 A 19920731; DE 59305846 T 19930112; DE 59310165 T 19930112; EP 96250101 A 19930112; JP 18801893 A 19930729; JP 2001105110 A 20010403; US 10144993 A 19930802; US 96317497 A 19971103