

Title (en)

High density electrical interconnect for a continuous ink jet printhead

Title (de)

Elektrische Leiterbahn hoher Dichte für einen kontinuierlichen arbeitenden Tintenstrahldruckkopf

Title (fr)

Interconnexion électrique à haute densité pour tête d'impression à jet d'encre continu

Publication

EP 1013430 A2 20000628 (EN)

Application

EP 99309493 A 19991129

Priority

US 21121298 A 19981214

Abstract (en)

Recognizing the need for longer ink jet arrays with higher print densities and the concurrent need for minimal overall size of the printhead, the present invention proposes a system and method for establishing a high-density electrical interconnection between high-voltage driver chips and charging electrodes controlled by the driver chips. A charge plate has a charging electrode density on its face, and an associated mating circuit. Alignment features are then provided on the charge plate and/or the mating circuit. The alignment features of the charge plate and the mating circuit are mechanically engaged to ensure alignment of mating contact pads. And an interconnect is provided for the aligned mating contact pads.

<IMAGE>

IPC 1-7

B41J 2/14; **B41J 2/02**

IPC 8 full level

B41J 2/03 (2006.01); **B41J 2/085** (2006.01); **B41J 2/09** (2006.01)

CPC (source: EP)

B41J 2/03 (2013.01)

Citation (applicant)

- US 4560991 A 19851224 - SCHUTRUM WALTER L [US]
- US 5475409 A 19951212 - SIMON ROBERT J [US], et al

Cited by

WO2016176692A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1013430 A2 20000628; **EP 1013430 A3 20010404**; **EP 1013430 B1 20060614**; CA 2292082 A1 20000614; DE 69931880 D1 20060727; DE 69931880 T2 20070531; JP 2000218795 A 20000808

DOCDB simple family (application)

EP 99309493 A 19991129; CA 2292082 A 19991210; DE 69931880 T 19991129; JP 35300499 A 19991213