

Title (en)

Apparatus and method for controlling a charging voltage in ink jet printers

Title (de)

Vorrichtung und Verfahren zur Regelung der Ladespannung in Tintenstrahlschreibern

Title (fr)

Appareil et méthode pour le réglage de la tension de charge dans les imprimantes à projection d'encre

Publication

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Application

EP 99309534 A 19991129

Priority

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Abstract (en)

The present invention provides for adjustment of the charging voltage to a discrete section of the array, increasing the operating range of the printhead. The array of charging electrodes (22) are broken into segments with relative voltage adjustment to each segment. The voltage to the charge plate electrodes is then switchably controlled by discrete high voltage driver chips (56) to enable drop selection for printing. The integrated circuit within each chip converts serial input data at low voltages to parallel outputs at high voltage. The supplied high voltage to each of these chips is varied to compensate for impact variations on the catcher face caused by non-uniform parts. The compensation levels required for a set of aligned parts are stored within the printhead memory. The printhead will then function with the correct compensation levels on any system in which it is installed. <IMAGE>

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