Title (en)
Nozzle drive control system and method for ink jet printing.

Title (de)
Düsenantriebssteuerung und Tintenstrahldruckverfahren.

Title (fr)
Système de commande de buses et procédé d'impression par jet d'encre.

Publication
EP 0628412 A3 19950607 (EN)

Application
EP 94202383 A 19900322

Priority
• EP 90303101 A 19900322
• US 33200989 A 19890331

Abstract (en)
[origin: EP0390427A1] A drive control system is disclosed which automatically maintains nozzle drive voltage within a proper range. The control system monitors the state of the "intermediate satellites" positioned between ink drops used for printing. When these satellites are neither forward nor backward merging, a first cardinal point designated C(L) is identified. A second cardinal point, C(H), is determined when the drop breakoff point stops decreasing, relative to said nozzle, with increasing nozzle drive voltage. From the two cardinal values, a desired operating range for a particular ink can be computed and the control system automatically set. The computed value is essentially independent of temperature.

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B41J 2/02; B41J 2/12

IPC 8 full level
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CPC (source: EP)
B41J 2/02 (2013.01); **B41J 2/12** (2013.01)

Citation (search report)
• [PA] WO 8903768 A2 19890505 - LINX PRINTING TECH [GB]
• [A] US 4368474 A 19830111 - TOGAWA FUMIO [JP], et al
• [PA] US 4878064 A 19891031 - KATERBERG JAMES A [US], et al
• [A] WO 8801232 A1 19880225 - EASTMAN KODAK CO [US]
• [DA] EP 0287373 A1 19881019 - DOMINO PRINTING SCIENCES PLC [GB]
• [DA] US 4638325 A 19870120 - SCHNEIDER JOHN M [US], et al

Designated contracting state (EPC)
CH DE ES FR GB IT LI NL SE

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EP 90303101 A 19900322; AU 4530289 A 19891117; CA 2001041 A 19891019; DE 69017931 T 19900322; DE 69031431 T 19900322; EP 94202383 A 19900322; ES 90303101 T 19900322; ES 94202383 T 19900322; JP 33252389 A 19891221