Title (en)
Liquid jetting apparatus and method for driving the same

Title (de)
Flüssigkeitsstrahlapparat und Ansteuerverfahren dafür

Title (fr)
Appareil de jets de liquide et procédé de son commandement

Publication
EP 1319511 B1 20060830 (EN)

Application
EP 02258555 A 20021211

Priority
- JP 2001376760 A 20011211
- JP 2001384068 A 20011218
- JP 2001389209 A 20011221
- JP 2002357529 A 20021210

Abstract (en)
[origin: EP1319511A1] A liquid jetting head is provided with a nozzle orifice, a pressure chamber (27) communicated with the nozzle orifice (32), and a piezoelectric element which is deformable to cause pressure fluctuation to liquid contained in the pressure chamber. A drive signal generator (9) simultaneously generates a plurality of drive signals, each provided with waveform elements including at least one drive pulse in every unit jetting cycle. The drive pulse deforms the piezoelectric element (21) to cause such pressure fluctuation as to eject a liquid droplet from the nozzle orifice (32). A switcher selectively supplies at least one of the waveform elements included in one of the drive signals to the piezoelectric element. A switch controller (45,46,47,48) controls a selective supply operation of the switcher in accordance with amount data which indicates an amount of the liquid droplet to be ejected. A time period during which a first drive pulse is generated in one of the drive signals overlaps at least partly with a time period of a second drive pulse generated in another one of the drive signals. <IMAGE>

IPC 8 full level
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CPC (source: EP)
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Cited by
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