

Title (en)

A FLUID JET PRINT HEAD, AND A METHOD OF STIMULATING THE BREAK UP OF A FLUID STREAM EMANATING THEREFROM

Publication

EP 0097413 B1 19860618 (EN)

Application

EP 83301874 A 19830331

Priority

US 39010582 A 19820621

Abstract (en)

[origin: EP0097413A1] A fluid jet print head includes an elongated body (10) having a length substantially greater than its other dimensions and defining a fluid receiving reservoir (16) in one end. An orifice plate (12) is secured to the body (10) over the reservoir (16), and includes a row of orifices (18) from which fluid, supplied under pressure to the reservoir, emerges as a fluid filament. The print head includes a support (34) for engaging the body (10) intermediate its ends. Further, the print head includes a pair of piezoelectric transducers (36), bonded to the exterior of the print head body on opposite sides thereof, for alternately elongating and contracting in phase in the direction of elongation of the print head body. This causes mechanical vibration of the body and break up of the fluid filament into drops. Alternately, the piezoelectric transducers may be driven out of phase such that the print head body flexes.

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CPC (source: EP)

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