

Title (en)

DROP-ON-DEMAND LIQUID EJECTOR ARRANGEMENT.

Title (de)

ANORDNUNG ZUR GESTEUERTEN TINTENTROPFENERZEUGUNG.

Title (fr)

SYSTEME D'EJECTION SUR DEMANDE DE GOUTTELETTES DE LIQUIDE.

Publication

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Application

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Priority

EP 9002119 W 19901206

Abstract (en)

[origin: WO9210367A1] A droplet ejector arrangement, particularly for an ink-jet printer, is formed in at least one piezoelectric, preferably piezoceramic, wafer (20). Grooves formed in one side of the wafer act as ejector channels (21), with each ejector channel having a nozzle (25). The characteristics of the droplet ejector, i.e. the result of the effect of the ejector channels (21) on the liquid in terms of size, velocity and rate of emerging droplets, can be imparted to the channels during manufacture by selecting the appropriate length, depth and width of the channel (21), together with the length, depth and width of the nozzle (25). Flow characteristics of the liquid through each channel are optimized by providing regions with varying cross-sectional area in the channels (21).

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