

Title (en)
LIQUID DROPLETS RECORDING DEVICE

Publication
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Application
EP 82102955 A 19820406

Priority
DE 3114259 A 19810408

Abstract (en)
[origin: US4409602A] A mosaic recorder having a plurality of nozzles for ejecting recording liquid droplets on a moving recording medium for punctiform representation of characters and images, each nozzle having a piezoelectric transducer associated therewith and said nozzles being arranged in a recording head adjacent to one another in rows, has an improved nozzle structure wherein the inlet opening of each nozzle is generally oblong in shape and the nozzle tapers to a smaller circular outlet opening from which the recording liquid is ejected. The relatively large size inlet opening increases the ratio of the inlet opening size to the outlet opening size, thereby increasing the ejection speed of the recording liquid droplet. The hydraulic separation between adjacent nozzles is also increased and the mechanical coupling between adjacent transducers is decreased by the oblong configuration of the inlet opening while the spacing between the nozzle outlet openings remains the same.

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