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(54) Title: PRINthead WITH MATCHED RESONANT DAMPING STRUCTURE

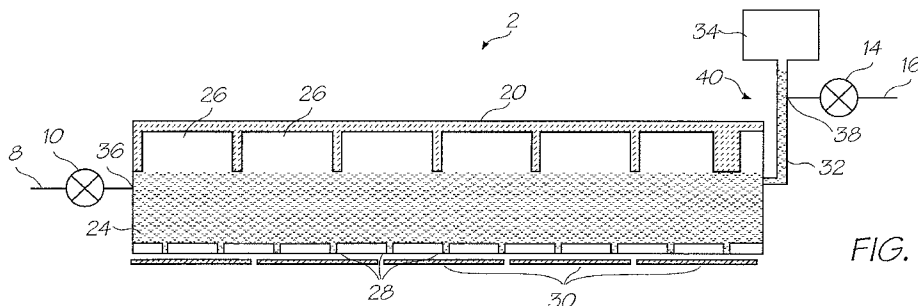


FIG. 4

(57) Abstract: A printhead that has at least one printhead integrated circuit (IC) with an array of nozzles for ejecting ink and a support structure for supporting the printhead IC. The support structure has an ink conduit for supplying the array of nozzles with ink. The conduit has a set of resonant frequencies at which ink in the conduit generates a standing wave in response to certain operating modes of the array of nozzle. A fluidic damper is incorporated into printhead, the damper having a selected resonant frequency that damps the standing waves associated with each of the set of resonant frequencies such that they have an amplitude less than a maximum threshold.



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