

ABSTRACT**AN INK JET PRINthead INCORPORATING AN ARRAY OF NOZZLE ASSEMBLIES**

An ink jet printhead includes a wafer substrate that incorporates drive circuitry and defines a plurality of ink inlet channels. At least one pair of rows of nozzle assemblies is positioned on the wafer substrate. Each nozzle assembly includes an ink ejection nozzle that defines a nozzle chamber in fluid communication with an ink inlet channel and a nozzle opening in fluid communication with the nozzle chamber. An elongate actuator is connected to the drive circuitry and is operable to displace the nozzle on receipt of an electrical signal from the drive circuitry to eject ink from the nozzle opening. The nozzle assemblies are oriented so that the ink ejection nozzles of one of the rows of nozzle assemblies are adjacent the ink ejection nozzles of the other row of nozzle assemblies, with the actuators of respective rows extending in generally opposite directions.

Fig. 6