

FLUID EJECTION DEVICE WITH DATA SIGNAL LATCH CIRCUITRY**ABSTRACT**

A fluid ejection device (22/40) includes a first fire line (110a-110n/214a-214f), a second fire line (110a-110n/214a-214f), data lines (108a-108m/208a-208h), latch circuitry (152,404/162/184,186), first drop generators (60), and second drop generators (60). The first fire line is adapted to conduct a first energy signal including first energy pulses and the second fire line is adapted to conduct a second energy signal including second energy pulses. The data lines are adapted to conduct data signals that represent an image and the latch circuitry is configured to latch the data signals to provide latched data signals based on at least one clock signal. The first drop generators are configured to respond to the first energy signal to eject fluid based on the latched data signals and the second drop generators are configured to respond to the second energy signal to eject fluid based on the latched data signals.

Fig. 10