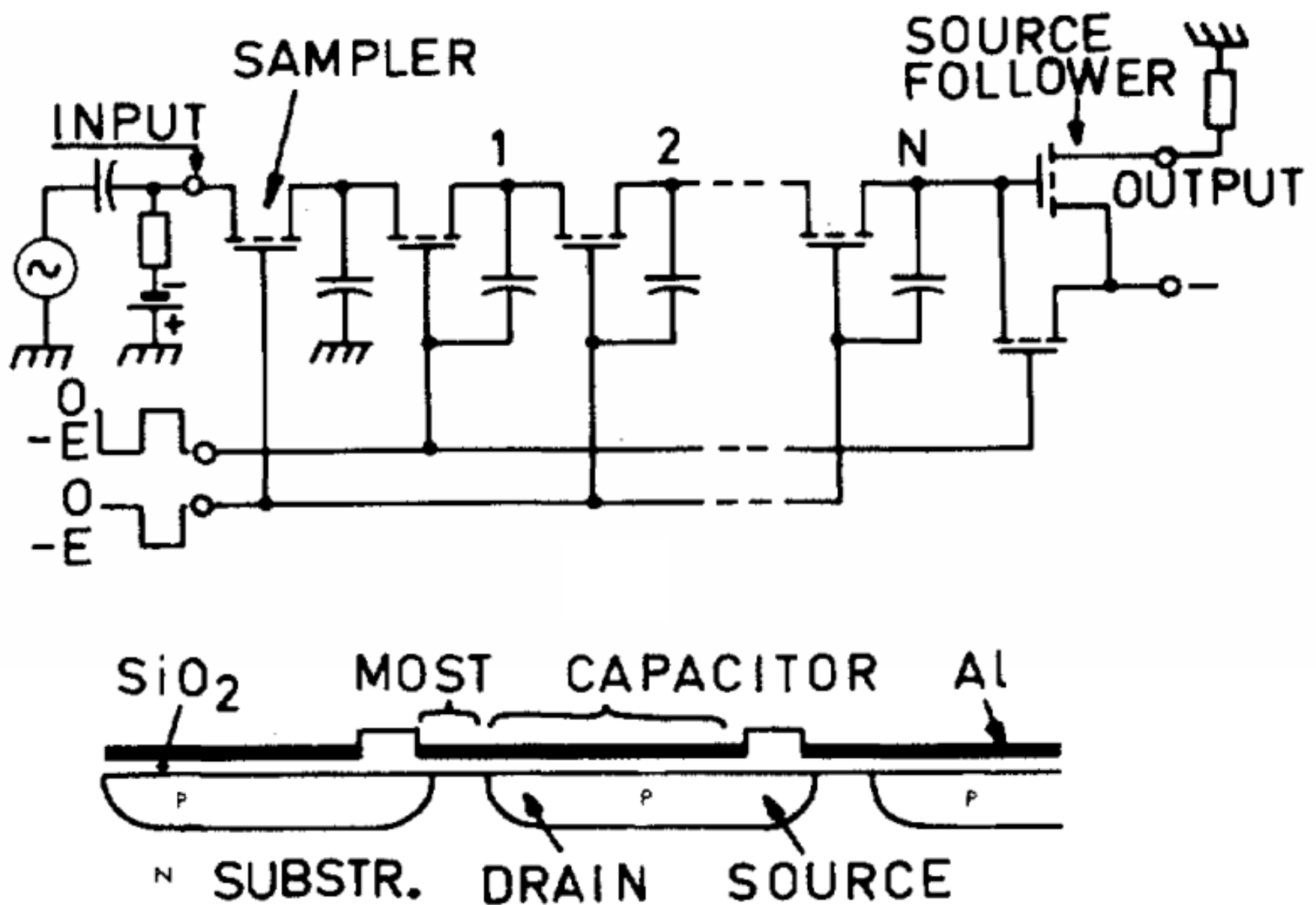


CHARGE TRANSFER DEVICE

ISSCC 1970



Integrated MOS and Bipolar Analog Delay Lines using Bucket-Brigade Capacitor Storage

SANGSTER (PHILIPS) reported the Bucket-Brigade Devices (BBD). BBDs can be viewed as predecessors to CCDs. BBDs are charge-transfer devices in which the charge packets are transported by means of MOS transistors, while CCDs realize this transport by means of MOS capacitors. Sangster invented the BBD to be used in the first place as an analog memory or delay line, but the author already indicated that the device could also be used as a solid-state image sensor.

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