

LOW NOISE CHARGE PUMPS

ABSTRACT OF THE DISCLOSURE

Low noise charge pumps are disclosed. In certain embodiments, a charge pump includes a charge pump output terminal that provides a charge pump voltage, a switched capacitor, and a plurality of switches that charge the switched capacitor during a charging operation of the charge pump and that connect the switched capacitor to the charge pump output terminal during a discharging operation of the charge pump. The switches operate with non-overlap between the charging operation and the discharging operation so that the charge pump operates with low noise.

[FIG. 5B]