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(54) **CAPACITANCE SENSING FOR PERCUSSION INSTRUMENTS AND METHODS THEREFOR**

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(57) **ABSTRACT**

A percussion instrument data generating system can include a plurality of capacitance sensors coupled to the at least a first surface. A controller section can include a plurality of switches for selectively connecting each capacitance sensor to a sense node. A capacitance sense circuit can be coupled to the common sense node and can measure a capacitance presented at the common sense node. An encoder section that generates a position value for a sensed input event based that varies according to which capacitance sensor detects the input event.

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