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(71) Applicant: **TACTUAL LABS CO.** [US/US]; 160 Wooster Street, Penthouse B, New York, New York 10012 (US).

(72) Inventors: **LEIGH, Darren**; 17615 Greenleaf Place, Round Hill, Virginia 20141 (US). **FORLINES, Clifton**; 395 Clinton Street, Toronto, Ontario M6G 2Z1 (CA). **WIGDOR, Daniel**; 216 Wright Avenue, Toronto, Ontario M6R 1L3 (CA). **SANDERS, Steven Leonard**; 160 Wooster Street, Penthouse B, New York, New York 10012 (US).

(74) Agents: **KURTZ, Richard** et al.; 450 So. Orange Ave., Suite 650, Orlando, Florida 32801 (US).

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(54) Title: FREQUENCY CONVERSION IN A TOUCH SENSOR

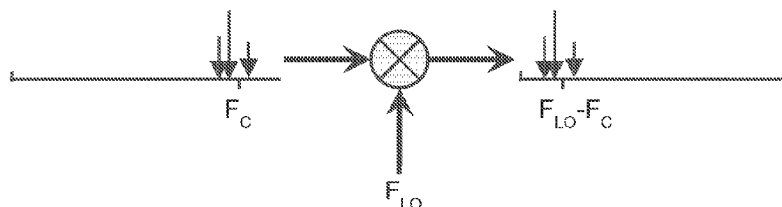


FIG. 40

(57) Abstract: A touch sensitive device includes a touch interface having rows and columns, a signal generator for generating a plurality of unique orthogonal signals on at least a plurality of the rows, respectively, and a frequency converter. The frequency converter receives a first touch signal present on at least one of the plurality of columns, converts the first touch signal to a second signal having a second center frequency, and outputs the second signal. A touch processor identifies touch on the touch interface by processing the second signal having the second center frequency and outputting touch event data.

