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61/880,887 21 September 2013 (21.09.2013) US(71) Applicant: **TACTUAL LABS CO.** [US/US]; 160 Wooster Street, Penthouse B, New York, New York 10012 (US).(72) Inventors: **FORLINES, Clifton**; 395 Clinton Street, Toronto, Ontario M6G 2Z1 (CA). **COSTA, Ricardo Jorge Jota**; 589-B Wellington Street West, Toronto, Ontario M5V 2R6 (CA). **WIGDOR, Daniel**; 216 Wright Avenue, Toronto, Ontario M6R 1L3 (CA). **SINGH, Karan**; 889 Carlaw Avenue, Toronto, Ontario M4K 3L4 (CA).(74) Agents: **KURTZ, Richard** et al.; 450 So. Orange Ave., Suite 650, Orlando, Florida 32801 (US).

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(54) Title: SYSTEMS AND METHODS FOR PROVIDING RESPONSE TO USER INPUT USING INFORMATION ABOUT STATE CHANGES PREDICTING FUTURE USER INPUT

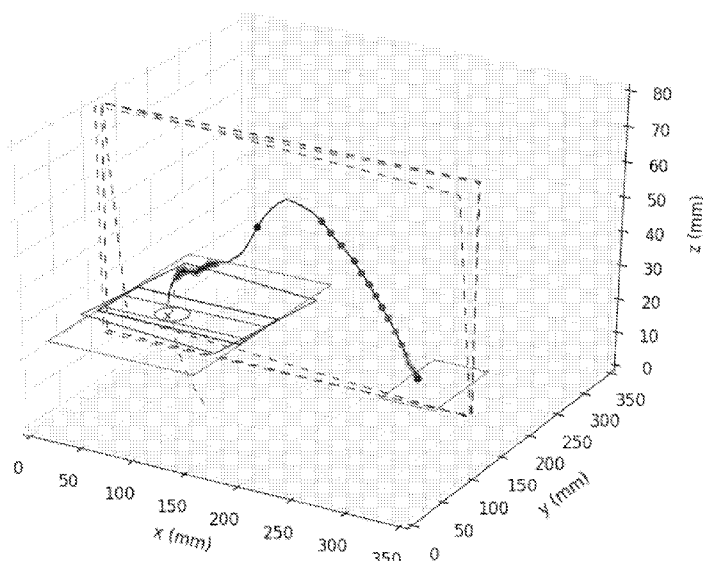


FIG. 1

(57) Abstract: A system and method for caching and using information about graphical and application state changes in an electronic device is disclosed. In an embodiment, the system and method utilize a model of user input from a touch sensor capable of sensing location of a finger or object above a touch surface. In the electronic device, data representative of current user input to the electronic device is created. The model of user input is applied to the data representative of current user input to create data reflecting a prediction of a future user input event. That data is used to identify at least one particular response associated with the predicted future user input event. Data useful to implement graphical and application state changes is cached in a memory of the electronic device, the data including data reflecting a particular response associated with the predicted future user input. The cached data is retrieved from the memory of the electronic device and is used the data to implement the state changes.