ture" formed by either or both hands on or over a touch or hover sensitive device can be detected and interpreted to perform operations that can require an identification action, such determining whether the user is to get access, or continue to have access, to a restricted account, file or other item.

BRIEF DESCRIPTION OF THE DRAWINGS

[0012] FIG. **1** is a block diagram of an exemplary computer system according to one embodiment of this invention.

[0013] FIG. **2** illustrates another exemplary computer system according to one embodiment of this invention.

[0014] FIG. **3** is an exemplary multipoint processing method according to one embodiment of this invention.

[0015] FIGS. **4***a* and **4***b* illustrate a detected touch image according to one embodiment of this invention.

[0016] FIG. **5** illustrates a group of features according to one embodiment of this invention.

[0017] FIG. **6** is a parameter calculation method according to one embodiment of this invention.

[0018] FIGS. **7***a*-**7***e* and **7***i*-**7***k* illustrate various gestures for performing targeting and/or selecting tasks according to one embodiment of this invention.

[0019] FIGS. **7***f*-**7***h* show a diagram of a method for recognizing and implementing gestural inputs of FIGS. **7***a*-**7***e*.

[0020] FIGS. **8***a*-**8***g* illustrate a rotate gesture according to one embodiment of this invention.

[0021] FIG. **9** is a diagram of a touch-based method according to one embodiment of this invention.

[0022] FIG. **10** is a diagram of a touch-based method according to one embodiment of this invention.

[0023] FIG. **11** is a diagram of a touch-based method according to one embodiment of this invention.

[0024] FIG. **12** is a diagram of a zoom gesture method according to one embodiment of this invention.

[0025] FIGS. **13***a*-**13***h* illustrates a zooming sequence according to one embodiment of this invention.

[0026] FIG. **14** is a diagram of a pan method according to one embodiment of this invention.

[0027] FIGS. **15***a*-**15***d* illustrate a panning sequence according to one embodiment of this invention.

[0028] FIG. **16** is a diagram of a rotate method according to one embodiment of this invention.

[0029] FIGS. **17***a*-**17***c* illustrate a rotating sequence according to one embodiment of this invention.

[0030] FIGS. **18***a*-**18***c* illustrate an exemplary "OK gesture" according to one embodiment of this invention.

[0031] FIGS. **19***a*-**19***d* illustrate an exemplary "grasp everything gesture" according to one embodiment of this invention.

[0032] FIGS. **20***a*-**20***b* illustrate an exemplary "stamp of approval gesture" according to one embodiment of this invention.

[0033] FIGS. **21***a*-**21***b* illustrate an exemplary "circle select gesture" according to one embodiment of this invention.

[0034] FIGS. **22***a*-**22***d* illustrate an exemplary "X to delete gesture" according to one embodiment of this invention.

[0035] FIGS. **23***a*-**23***b* illustrate an exemplary "knock to inquire gesture" according to one embodiment of this invention.

[0036] FIGS. **24***a*-**24***h* illustrate an exemplary "hitchhiker gesture" according to one embodiment of this invention.

[0037] FIGS. **25***a*-**25***h* illustrate exemplary "shape gestures" according to one embodiment of this invention.

[0038] FIGS. **26***a*-**26***h* illustrate exemplary "identification gestures" and "lock/unlock gestures" according to one embodiment of this invention.

[0039] FIGS. **27***a*-**27***k* illustrate exemplary "hand edge gestures" according to one embodiment of this invention.

[0040] FIGS. **28***a*-**28***b* illustrate an exemplary "framing gesture" according to one embodiment of this invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0041] In the following description of preferred embodiments, reference is made to the accompanying drawings which form a part hereof, and in which it is shown by way of illustration specific embodiments in which the invention can be practiced. It is to be understood that other embodiments can be utilized and structural changes can be made without departing from the scope of the preferred embodiments of the present invention.

[0042] "Real-world" gestures such as hand or finger movements/orientations that are generally recognized to mean certain things (e.g., an "OK" hand signal generally indicates an affirmative response) can be interpreted by a touch or hover sensitive device to more efficiently and accurately effect intended operations. These gestures can include, but are not limited to, "OK gestures," "grasp everything gestures," "stamp of approval gestures," "circle select gestures," "X to delete gestures," "knock to inquire gestures," "hitchhiker directional gestures," and "shape gestures." In addition, gestures can be used to provide identification and allow or deny access to applications, files, and the like.

[0043] Although some embodiments of the invention can be described herein in terms of capacitive multi-touch sensor panels, embodiments of the invention can be generally applicable to other types of multi-touch sensors that can include resistive touch sensors, surface acoustic wave touch sensors, electromagnetic touch sensors, near field imaging touch sensors, optical touch sensors and the like. In addition, although the proximity sensors can be described herein as infrared (IR) proximity sensors, embodiments of the invention can be generally applicable to other types of proximity sensors having an output that can be AC-coupled to an analog channel.

[0044] FIG. **1** is a block diagram of exemplary computer system **50** in accordance with embodiments of this invention. Computer system **50** can correspond to a personal computer system, such as a desktop, laptop, tablet or handheld computer. The computer system can also correspond to a computing device, such as a mobile telephone, PDA, dedicated media player, consumer electronics device, and the like.

[0045] The exemplary computer system **50** shown in FIG. **1** can include a processor **56** configured to execute instructions and to carry out operations associated with the computer system **50**. For example, using instructions retrieved, for example, from memory, the processor **56** can control the reception and manipulation of input and output data between components of the computing system **50**. The processor **56** can be implemented on a single-chip, multiple chips or multiple electrical components. For example, various architectures can be used for the processor **56**, including dedicated or embedded processors, single purpose processors, controllers, ASICs, and so forth.

[0046] In most cases, the processor **56** together with an operating system can operate to execute computer code and produce and use data. Operating systems are generally well known and will not be described in greater detail. By way of