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Patent Number(s): US2015119108-A1; US9398144-B2

Title: Method for providing operating mode for blind users for operating e.g. smartphone, involves determining operation mode for mobile device automatically, and configuring device to transition from visually impaired mode to standard mode

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Derwent Primary Accession No.: 2015-27244L

Abstract: NOVELTY - The method involves providing two modes of operation for a mobile device including a standard mode (101) and a visually impaired (VI) mode (103). A determination is made that an operation mode for the mobile device is provided between the standard mode and the VI mode automatically based on the mobile device powering-up from a low power state. The mobile device is configured to automatically transition from the VI mode to a standard mode in response to detection of a gaze directed toward the display screen.

USE - Method for providing an operating mode for visually impaired users i.e. blind users, for operating a mobile device (claimed) e.g. smartphone. Can also be used for providing an operating mode for a tablet computer and a personal digital assistant.

ADVANTAGE - The method enables operating the mobile device in the VI mode with a display screen of the mobile device turned-off by default, so that the mobile device provides enhanced haptic feedback in response to touch input from users when an activating event is detected by automatically determining a previous mode of operation before entering an idle state. The method enables causing a highly energy efficient audio-monitoring circuit to allow the mobile device to continuously monitor a microphone for voice commands uttered by a user to be powered such that users can control the mobile device using oral commands, thus enabling automatic transition from the standard mode to the VI mode to turn-off the display screen in response to automatically determine that the display screen can avoid distraction of the user when the mobile device operates in the standard mode.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a mobile device.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram representing transitions between various modes of operation of a mobile device.

State diagrams (100, 150)

Standard mode (101)

VI mode (103)

Idle state (155)

Powered-off state (157)

Drawing:

Derwent Class Code(s): W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): W01-A06C4; W01-C01B1B; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: H04M-001/725; H04W-052/02

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Cited Patent(s):

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US9398144-B2	US20100079508-A1
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Cited Article(s):

US9398144-B2 Verifying App Accessibility on iOS, Apple Developer, Apr. 2013 Apple Inc.; 17 pages.