

Title (en)  
PERSONAL ACOUSTIC DEVICE POSITION DETERMINATION

Title (de)  
POSITIONSBESTIMMUNG EINER PERSÖNLICHEN AKUSTISCHEN EINRICHTUNG

Title (fr)  
DÉTERMINATION DE POSITION DE DISPOSITIF ACOUSTIQUE PERSONNEL

Publication  
**EP 2415276 B1 20150812 (EN)**

Application  
**EP 10713284 A 20100329**

Priority

- US 2010029031 W 20100329
- US 41374009 A 20090330
- US 72846510 A 20100322
- US 74841010 A 20100327
- US 74840910 A 20100327

Abstract (en)  
[origin: WO2010117714A1] Apparatus and method for determining an operating state of an earpiece of a personal acoustic device and/or the entirety of the personal acoustic device by analyzing signals output by at least an inner microphone disposed within a cavity of a casing of the earpiece and an outer microphone disposed on the personal acoustic device in a manner acoustically coupling it to the environment outside the casing of the earpiece. Apparatus and method for determining an operating state of an earpiece of a personal acoustic device and/or the entirety of the personal acoustic device through tests to determine the current operating state, wherein the tests differ depending on a current power mode of the personal acoustic device, and wherein at least one lower power test is employed during at least one lower power mode. Apparatus and method for determining an operating state of a personal acoustic device by receiving a signal from one or more movement sensors indicating movement detected by the one or more movement sensors, wherein the one or more movement sensors are disposed on portions of the personal acoustic device structured to be worn on a user's head to enable the one or more movement sensors to detect rotational movements of a user's head when the personal acoustic device is in position on the user's head such that a casing of the personal acoustic device is adjacent an ear of the user. Apparatus and method for determining an operating state of a personal acoustic device by receiving signal from first and second movement sensors indicating movement detected by each, wherein the first movement sensor is disposed on a portion of the personal acoustic device structured to be worn on a user's head to enable the first movement sensors to detect movements of a user's head when the personal acoustic device is in position on the user's head such that a casing of the personal acoustic device is adjacent an ear of the user, and wherein the second movement sensor is disposed on a portion of the personal acoustic device structure to not be worn on a user's head.

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
US10334347B2; US10257602B2; US10080092B2; WO2024129182A1; WO2018085025A1; US10462551B1; US10757500B2; US9894452B1; US10091597B2; US10091598B2

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