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**Li et al.**

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(54) **TECHNOLOGIES FOR DYNAMIC AUDIO COMMUNICATION ADJUSTMENT**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

9,571,628 B1 \* 2/2017 Bostick ..... H04M 1/72569  
2004/0196989 A1 \* 10/2004 Friedman ..... G10L 21/04  
381/119  
2005/0058278 A1 \* 3/2005 Gallego Hugas ... G10L 21/0208  
379/406.01  
2005/0130709 A1 \* 6/2005 Muszkiewicz ..... H04M 1/22  
455/566

(Continued)

FOREIGN PATENT DOCUMENTS

EP 2312793 4/2011

OTHER PUBLICATIONS

International search report for PCT application No. PCT/US2016/063272, dated Feb. 22, 2017 (3 pages).  
(Continued)

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(57) **ABSTRACT**

Technologies for adaptive audio communications include a telecommunications device configured to collect session data of a communication session that includes an audio stream between a user of the telecommunications device and at least one other user of a remote telecommunications device. The telecommunications device is further configured to determine a session context of the communication session based on the collected session data, determine whether the session data includes an anomaly, and adjust, in response to a determination that the anomaly was detected, at least one of a portion of the audio stream of the communication session and a setting of the telecommunications device based on the anomaly. Other embodiments are described and claimed.

**25 Claims, 3 Drawing Sheets**

