



US 20230232178A1

(19) **United States**

(12) **Patent Application Publication**  
**Lovitt et al.**

(10) **Pub. No.: US 2023/0232178 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **MODIFYING AUDIO DATA TRANSMITTED TO A RECEIVING DEVICE TO ACCOUNT FOR ACOUSTIC PARAMETERS OF A USER OF THE RECEIVING DEVICE**

(71) Applicant: **META PLATFORMS TECHNOLOGIES, LLC**, Menlo Park, CA (US)

(72) Inventors: **Andrew Lovitt**, Redmond, WA (US); **Nils Thomas Fritiof Lunner**, Redmond, WA (US); **Vladimir Tourbabin**, Woodinville, WA (US); **Jacob Ryan Donley**, Kirkland, WA (US)

(21) Appl. No.: **17/578,852**

(22) Filed: **Jan. 19, 2022**

**Publication Classification**

(51) **Int. Cl.**  
**H04S 7/00** (2006.01)

(52) **U.S. Cl.**  
CPC ..... **H04S 7/303** (2013.01); **H04S 7/307** (2013.01); **H04S 2420/01** (2013.01); **H04S 2400/11** (2013.01)

(57) **ABSTRACT**

A communication system provides audio content to one or more client devices capable of playing spatialized audio content. For example, the communication system receives audio content from a client device and transmits the audio content to other client devices to be played for users. The communication system dynamically modifies audio content transmitted to different client devices based on a payload including audio parameters (e.g., local area acoustic properties, an audiogram for a user, a head related transfer function for a user, etc.) received from a client device.

