ABSTRACT

# SYSTEM AND METHOD FOR PROCESSING AUDIO BETWEEN MULTIPLE AUDIO SPACES

Techniques are provided to transform external sound from an external position of an external audio space to an internal position of an internal audio space where the external sound would be heard naturally. The techniques involve capturing the external sound with a microphone and processing the captured external sound to appear as if it was captured at the internal position of the internal audio space, which may correspond to an output of a driver or a user's eardrum. Then the processed captured external sound may be conditioned for the individual user or further combined with conditioned audio content to create an augmented audio experience for the user. Any combination of the techniques can be implemented in real time.

(Figure 1)