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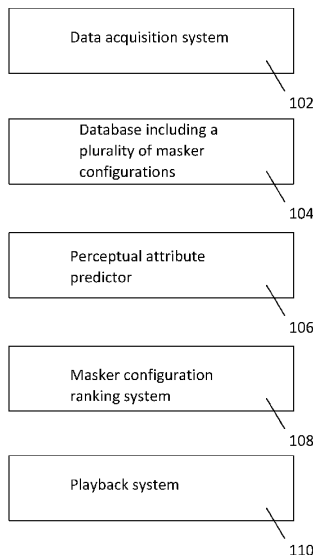
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(54) Title: **SOUNDSCAPE AUGMENTATION SYSTEM AND METHOD OF FORMING THE SAME**

FIG. 1



(57) Abstract: Various embodiments may provide a soundscape augmentation system. The soundscape augmentation system may include a data acquisition system configured to provide ambient soundscape data. The soundscape augmentation system may also include a database including a plurality of masker configurations. The soundscape augmentation system may further include a perceptual attribute predictor coupled to the data acquisition system and the database, the perceptual attribute predictor configured to generate predictions representing perception on one or more pre-defined perceptual attribute scales for each masker configuration of the plurality of masker configurations based on the ambient soundscape data. The soundscape augmentation system may additionally include a masker configuration ranking system configured to determine one or more optimal masker configurations based on the predictions generated by the perceptual attribute predictor. The soundscape augmentation system may also include a playback system configured to play back or reproduce the one or more optimal masker configurations.

WO 2023/211385 A1

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