

**IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
WACO DIVISION**

JAWBONE INNOVATIONS, LLC,
Plaintiff,

-v-

APPLE INC.,
Defendant.

6:21-CV-00984-ADA

JAWBONE INNOVATIONS, LLC
Plaintiff,

-v-

GOOGLE LLC F/K/A GOOGLE INC.,
Defendant.

6:21-CV-00985-ADA

ORDER APPOINTING TECHNICAL ADVISOR

The Court finds that the technology in the above-captioned case is exceptionally complex and warrants the appointment of a technical advisor. This case involves U.S. Patent No. 7,246,058, which is titled “Detecting voiced and unvoiced speech using both acoustic and nonacoustic sensors” and relates to voice detection technology; U.S. Patent No. 8,019,091, which is titled “Voice activity detector (VAD) -based multiple-microphone acoustic noise suppression” and relates to noise suppression technology; U.S. Patent No. 8,280,072, which is titled “Microphone array with rear venting” and relates to noise suppression technology; U.S. Patent No. 8,321,213, which is titled “Acoustic voice activity detection (AVAD) for electronic systems” and relates to noise suppression technology; U.S. Patent No. 8,326,611, which is titled “Acoustic voice activity detection (AVAD) for electronic systems” and relates to noise suppression technology; U.S. Patent No. 8,467,543, which is titled “Microphone and voice activity detection (VAD)

configurations for use with communication systems” and relates to detection and processing an acoustic signal in a noisy environment; U.S. Patent No. 8,503,691, which is titled “Virtual microphone arrays using dual omnidirectional microphone array (DOMA)” and relates to noise suppression technology; U.S. Patent No. 10,779,080, which is titled “Dual omnidirectional microphone array (DOMA)” and relates to noise suppression technology; U.S. Patent No. 11,122,357, which is titled “Forming virtual microphone arrays using dual omnidirectional microphone array (DOMA)” and relates to noise suppression technology.

The patents are classified in the fields of data processing: speech signal processing, linguistics, language translation, and audio compression/decompression related to noise; acoustical noise or sound cancellation with counterwave generation control path; directive circuits for microphones; data processing: speech signal processing, linguistics, language translation, and audio compression/decompression related to voice or unvoice; noise or distortion suppression; damping circuit arrangements for transducers, *e.g.*, motional feedback circuits; and transducers.

The specification discusses identifying information of the acoustic signals as voiced speech based on thresholds ('058 Patent at Abstract), enabling acoustic noise suppression in multiple-microphone systems using Voice Activity Detectors ('091 Patent at Abstract), noise suppression for multi-microphone systems ('072 Patent at Abstract), generation of virtual directional microphones in order to generate a Voice Activity Detection signal ('213 Patent at Abstract, '611 Patent at Abstract), using control signals to automatically select a denoising method appropriate to data of frequency subbands of the acoustic signal ('543 Patent at Abstract), and formation of virtual microphones to reduce noise without distorting the speech and improving the signal-to-noise ratio of the desired speech ('691 Patent at Abstract, '080 Patent at Abstract, '357 Patent at Abstract)/

Full appreciation of the parties' upcoming arguments requires a detailed understanding of electrical engineering.¹

The Court hereby appoints Dr. Joshua J. Yi to serve as the Technical Advisor for the Court in this case. Given his background and qualifications, the Court is satisfied that Dr. Yi's appointment pursuant to the terms of this Order would assist the Court in this case. Dr. Yi's contact information is as follows:

Dr. Joshua J. Yi
13492 Research Blvd; Ste. 120 – #445
Austin, TX 78750-2254
E-mail: josh@joshuayipatentlaw.com

The parties shall send courtesy copies of the following documents no later than one business day after the date of this order or after the last document in the following list is filed:

- (1) **Briefs, joint claim construction statement, and patents:** In paper form, double-sided, stapled or bound (e.g., 3-ring), to the mailing address above,
- (2) **Briefs, exhibits, joint claim construction statement, patents, and tutorial:** In electronic form, on a USB drive, to the mailing address above,
- (3) **Word version of the joint claim construction statement:** Via e-mail to the above email address.

If the document was filed with the Court, the copy must include the CM/ECF header.

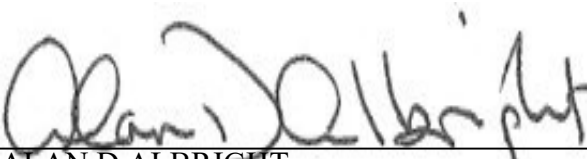
Dr. Yi will assist the Court with technical issues related to the claim construction process and advise the Court regarding preliminary and final claim constructions. Dr. Yi may also assist the Court in drafting a claim construction order.

Finally, depending on the needs of the case, Dr. Yi may also assist the Court with motions for summary judgment, *Daubert* motions, trial preparation and rulings, post-trial motions, and any other Court task that requires an appreciation of the complex technology included in the asserted patents.

¹ This is not a ruling on the skill level of a person of ordinary skill in the art.

The parties are **ORDERED** to notify the Court of any conflicts with Dr. Yi within 7 days of this order.

SIGNED this 1st day of July, 2022.



ALAN D ALBRIGHT
UNITED STATES DISTRICT JUDGE