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**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Ankita JHA	Nonprovisional Application Number (if known):	
Title of Invention:	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via USPTO patent electronic filing system.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via USPTO patent electronic filing system.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature <u>/Nicholas J. Gallo/</u>	Date <u>2025-01-17</u>
Name (Print/Typed) <u>Nicholas J. Gallo</u>	Practitioner Registration Number <u>60,758</u>
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.	
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TITLE: SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

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SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

[0001] This application claims priority to U.S. Provisional Patent Application Serial No. 63/678,180, filed August 1, 2024, which is hereby incorporated herein by reference in its entirety.

FIELD

[0002] This technology generally relates to audio analysis and, more particularly, to methods and systems for real-time accent mimicking.

BACKGROUND

[0003] Effective communication is a fundamental aspect of human interaction, essential for personal, educational, and professional success. Clarity and understandability of speech are critical to enable speakers to convey their thoughts and listeners to comprehend the intended message accurately. However, regional accents can often create barriers to understanding, especially for individuals who are not familiar with a particular dialect. These barriers can lead to misunderstandings, reduced efficiency in communication, and even social and professional disadvantages.

[0004] Language learners, in particular, face significant challenges related to accents. The nuances of pronunciation, intonation, and rhythm in a target language's accent can be difficult to master. Learners often struggle to replicate these nuances, which can hinder their overall pronunciation development. Poor accent replication also can lead to difficulties in being understood by native speakers, impacting the learner's confidence and progression in the language.

[0005] Existing technologies have attempted to address accent-related issues through various means. Some of these current technologies focus on static accent conversion, where a user's speech is transformed into a different accent using pre-programmed algorithms. While these static approaches offer some benefits, they lack the dynamic nature required for real-time interactions. Static conversion often results in unnatural-sounding speech and fails to adapt to the changing context of conversations.

[0006] In response to the growing need for improved communication clarity, virtual conference platforms have begun incorporating accent conversion features. These solutions typically rely on machine learning models trained on prerecorded speech data. While this method can enhance

understanding to some extent, it struggles to adapt to the nuances and variability of real-time conversations. The reliance on prerecorded data means that these machine learning models may not accurately capture the dynamic features of spontaneous speech, leading to potential inaccuracies and a lack of naturalness in the converted speech.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The disclosed technology is illustrated by way of example and not limitation in the accompanying figures, in which like references indicate similar elements:

[0008] FIG. 1 is a block diagram of an exemplary network environment that includes a speech processing system;

[0009] FIG. 2 is a block diagram of an exemplary storage device of the speech processing system of FIG. 1;

[0010] FIG. 3 is a flow diagram of an exemplary method for real-time accent mimicking; and

[0011] FIG. 4 is a flowchart of an exemplary method for real-time accent mimicking.

DETAILED DESCRIPTION

[0012] Examples described below may be used to provide a method, a device (e.g., non-transitory computer readable medium), an apparatus, and/or a system for real-time accent mimicking. Although the technology has been described with reference to specific examples, various modifications may be made to these examples without departing from the broader spirit and scope of the various embodiments of the technology described and illustrated by way of the examples herein. The disclosed technology includes a speech processing system 100 that aids speakers with accents in adopting listeners' accents, thereby enhancing communication clarity and reducing accent-related barriers, among other advantages explained in detail below.

[0013] Referring now to FIG. 1, a block diagram of an exemplary network environment that includes a speech processing system 100 is illustrated. The speech processing system 100 in this example includes processor(s) 104, which are designed to process instructions (e.g., computer readable instructions (i.e., code)) stored on the storage device(s) 114 (e.g., a non-transitory computer readable

medium) of the speech processing system 100. By processing the stored instructions, the processor(s) 104 may perform the steps and functions disclosed herein, such as with reference to FIG. 3-4, for example.

[0014] The speech processing system 100 also includes an operating system and microinstruction code in some examples, one or both of which can be hosted by the storage device(s) 114. The various processes and functions described herein may either be part of the microinstruction code and/or program code (or a combination thereof), which is executed via the operating system. The speech processing system 100 also may have data storage 106, which along with the processor(s) 104 form a central processing unit (CPU) 102, an input controller 110, an output controller 112, and/or a communication controller 108. A bus 113 may operatively couple components of the speech processing system 100, including processor(s) 104, data storage 106, storage device(s) 114, input controller 110, output controller 112, and/or any other devices (e.g., a network controller or a sound controller).

[0015] The output controller 112 may be operatively coupled (e.g., via a wired or wireless connection) to a display device (e.g., a monitor, television, mobile device screen, touch-display, etc.) in such a fashion that the output controller 112 can transform the display on the display device (e.g., in response to the execution of module(s)). Input controller 110 may be operatively coupled (e.g., via a wired or wireless connection) to an input device (e.g., mouse, keyboard, touchpad scroll-ball, touch-display, etc.) in such a fashion that input can be received from a user of the speech processing system 100.

[0016] The communication controller 108 in some examples provides a two-way coupling through a network link to the Internet 120 that is connected to a local network 118 and operated by an Internet service provider (ISP) 122, which provides data communication services to the Internet 120. The network link typically provides data communication through one or more networks to other data devices. For example, the network link may provide a connection through local network 118 to a host computer and/or to data equipment operated by the ISP 122. A server 124 may transmit requested code for an application through the Internet 120, ISP 122, local network 118, and/or communication controller 108.

[0017] The audio interface 126, also referred to as a sound card, includes sound processing hardware and/or software, including a digital-to-analog converter (DAC) and an analog-to-digital converter (ADC). The audio interface 126 is coupled to a physical microphone 128 and an audio output device 130 (e.g., headphones or speaker(s)) in this example, although the audio interface 126 can be coupled to other types of audio devices in other examples. Thus, the audio interface 126 uses the ADC to digitize input analog audio signals from a sound source (e.g., the physical microphone 128) so that the digitized signals can be processed by the speech processing system 100, such as according to the methods described and illustrated herein. The DAC of the audio interface 126 can convert generated digital audio data into an analog format for output via the audio output device 130.

[0018] The speech processing system 100 is illustrated in FIG. 1 with all components as separate devices for ease of identification only. One or more of the components of the speech processing system 100 in other examples may be separate devices (e.g., a personal computer connected by wires to a monitor and mouse), may be integrated in a single device (e.g., a mobile device with a touch-display, such as a smartphone or a tablet), or any combination of devices (e.g., a computing device operatively coupled to a touch-screen display device, a plurality of computing devices attached to a single display device and input device, etc.). The speech processing system 100 also may be one or more servers, for example a farm of networked or distributed servers, a clustered server environment, or a cloud.

[0019] Referring now to FIG. 2, a block diagram of an exemplary one of the storage device(s) 114 of the speech processing system 100 is illustrated. The storage device 114 may include an accent analysis module 200, a natural speech preservation module 202, an input interface 204, an accent translation module 206, an output module 208, a synthesizer module 210, and/or a feature extraction module 212, although other types and/or number of modules can also be used in other examples.

[0020] The input interface 204 may serve as an interface through which the speech processing system 100 receives input data and may allow for the input of speech and/or audio data or any other representation that captures characteristics of input speech. The input interface 204 may include various components or functionalities to facilitate the input process and may include hardware components such as microphones or audio interfaces for capturing real-time speech data. Alternatively, the input interface 204 may include a software interface that allows for the input of

prerecorded speech data or textual representations, and other types of input interfaces can also be used in other examples.

[0021] Accordingly, the input interface 204 may facilitate the receipt by the speech processing system 100 of the necessary data to initiate the real-time accent mimicking process described and illustrated herein. The input interface 204 may be the initial point of interaction between a user (e.g., a user computing device) or external systems and the speech processing system 100. The input data provided through the input interface 204 may serve as the foundation for subsequent processing and analysis within the speech processing system 100, as described and illustrated in detail below.

[0022] The accent analysis module 200 is configured to analyze input speech from a first user (also referred to herein as first input speech) using machine learning model(s). In some examples, the accent analysis module 200 leverages pre-trained machine learning models to analyze captured first input speech and identify accent-specific features. The machine learning models in this example are trained on diverse speech datasets encompassing a wide range of accents and are adept at recognizing characteristics that distinguish one accent from another.

[0023] The analysis by the accent analysis module 200 in some examples focuses on extracting key accent features including pitch contours or variation in pitch throughout the speech, intonation patterns including the rise and fall of pitch at the ends of phrases and sentences, and/or phoneme pronunciations or unique production of phonemes in different accents. These accent features extracted by accent analysis module 200 form a critical component for mimicking a first user's accent in a second user's speech (also referred to herein as second input speech), as explained in more detail below.

[0024] The feature extraction module 212 is configured to extract linguistic features, prosodic features (e.g., pitch and timbre), and/or global speaker characteristics from the first input speech. The global speaker characteristics can include vocal timbre, speech rate, articulation style, pitch range, rhythm patterns, and/or accent-specific characteristics. The vocal timbre in some examples is, the unique tonal quality of the speaker's voice, which can differentiate one speaker from another even when saying the same words. For example, a speaker with a warm, resonant timbre versus a speaker with a sharp, nasal timbre.

[0025] The speech rate in some examples is the typical speed at which a speaker delivers speech. For instance, a speaker from a fast-paced linguistic environment may average 200 words per minute, while a speaker from a slower-paced environment may average 120 words per minute.

[0026] The articulation style is the degree of clarity or slurring in a speaker's pronunciation. For example, some speakers enunciate every syllable clearly, while others may merge sounds, such as saying “gonna” instead of “going to.” The pitch range is the range of frequencies commonly used by a speaker. A speaker might naturally use a high-pitched voice with variations between 200-300 Hz, while another might operate in a low-pitched range, varying between 100-150 Hz.

[0027] The rhythm patterns refer to the regularity and pattern of pauses, stress, and emphasis in a speaker's speech. For example, a speaker may consistently place emphasis on the first syllable of multisyllabic words or insert long pauses between sentences as part of their natural speaking style. The accent-specific characteristics in some examples include regional or cultural markers that define the speaker's accent. For instance, the tendency to roll the “r” sound in some accents or to flatten certain vowel sounds.

[0028] The accent translation module 206 is configured to translate the linguistic features extracted by the feature extraction module 212 from a second accent (of the second input speech) to a first accent (of the first input speech). The first accent in some examples represents the first user's unique way of pronouncing words and structuring sentences.

[0029] The synthesizer module 210 is configured to combine the extracted accent features, translated linguistic features, extracted prosodic features, and extracted global speaker characteristics to generate a modified version of the second input speech. The natural speech preservation module 202 is configured to understand the second user's natural speech characteristic(s) and substantially maintain the second user's natural voice during the modification of the second input speech.

[0030] In some examples, the natural speech preservation module 202 employs techniques such as a mel frequency cepstral coefficient (MFCC) analysis, to extract a unique fingerprint of a second user's voice, and/or speaker identity encoding, to encode speaker-specific voice characteristics. These techniques are incorporated into the modified version of the second input speech generated using the synthesizer module 210 to allow the speech processing system 100 to maintain a natural

sound throughout the process of modifying the second input speech. Thus, the natural speech preservation module 202 advantageously ensures the second user's speech substantially retains its natural quality while mimicking the accent of the first user represented within the first input speech.

[0031] The output module 216 optionally facilitates adjustment of speech characteristics, such as speech rate, pitch, or gender, to further customize the representation of the modified version of the second input speech based on user preferences or application requirements, for example. The output module 216 optionally utilizes a vocoder to deliver a seamless and intelligible speech output that reflects the modified version of the second input speech with mimicked accent features. For example, by leveraging the advanced speech techniques described herein, the output module 216 may provide, in real-time or on-demand, a relatively accurate representation of second input speech from a second user in an accent that more closely corresponds to that of a first user.

[0032] Referring now to FIG. 3, a flow diagram of an exemplary method 300 for real-time accent mimicking is illustrated. In some examples, the method 300 may be implemented as a software application (e.g., software 116 executed by the central processing unit 102) or a module within a larger system that includes the speech processing system 100. The software application or module may receive input audio data, perform accent mimicking operations, and provide an output speech in real-time, as explained in detail below.

[0033] Accordingly, in some examples, the steps 302-312 illustrated in FIG. 3 operate on the same device (e.g., a first user computing device and, in other examples, a subset of the steps 302-312 (e.g., the accent translation of step 308 and/or synthesis of step 310) may be executed on a second user computing device or a remote cloud server device, for example. Thus, in the former examples, no external processing is required. However, in the latter examples, the input speech can be transmitted from a first user computing device to a second user computing device, where the accent transformation occurs. The second user computing device in these examples then returns the transformed speech data to the first user computing device or directly outputs the speech to the target listener. Other permutations can also be used in other examples.

[0034] Accordingly, in step 302 in some examples, the speech processing system 100 executing at a second user computing device, which may be remotely connected via communication networks to a first user computing device, receives second input audio data (e.g., via microphone and

an audio interface) and extracts linguistic features (e.g., phonemes, syllables, word stress, speech rate, and/or pronunciation patterns) from second input speech represented by the second input audio data.

The second input speech is associated with a second user of the second user computing device and a second accent of the second user. Optionally in parallel, the speech processing system 100 extracts prosodic features (e.g., pitch and timbre) from the second input speech in step 304 and global speech characteristics from the second input speech in step 306.

[0035] In step 308, the speech processing system 100 translates the linguistic features extracted in step 302 from a second accent associated with the second user to a first accent associated with a first user of the first user computing device. The translation is facilitated by previously obtained accent-specific features. For example, the accent-specific features can be extracted by another speech processing system 100 executed at the first user computing device. The accent-specific features associated with the first accent are captured based on an analysis of first audio data representing first input speech by the first user. The analysis can leverage machine learning model(s) and the accent-specific features can include pitch contours, intonation patterns, and/or phoneme pronunciations, for example, although other accent-specific features can also be used in other examples.

[0036] In step 310, the speech processing system 100 combines the translated linguistic features generated in step 308, the prosodic features extracted in step 304, and the global speech characteristics extracted in step 306 to generate a modified version of the second input speech. In some examples, the synthesis in step 310 leverages a unique fingerprint of the second user's voice and/or encoded speaker-specific voice characteristics of the second input speech to thereby substantially maintain the second user's natural voice in the modified second input speech that mimics the first user's first accent.

[0037] Accordingly, the synthesis in step 310 modifies the second input speech to mimic the first user's accent while preserving the natural voice characteristics of the second user. In some examples, this is achieved by leveraging a unique voice fingerprint of the second user and/or encoding speaker-specific characteristics, which may include pitch, timbre, and/or rhythm, for example, to ensure the second user's natural voice is substantially maintained. In this way, the modified second input speech retains the second user's identity (or natural voice characteristics), but with the accent of the first user's speech.

[0038] In step 312, the speech processing system uses a vocoder to turn the acoustic features of the modified version of the second input speech into output audio data and associated output speech. The output audio data and/or output speech can be sent from the second user computing device via one or more communication networks to the first user device for output via an output audio device (e.g., audio output device 130) of the first user computing device.

[0039] In other examples, the input audio data and/or input speech can be sent from the second user computing device via one or more communication networks to the first user computing device and the process illustrated in FIG. 3 can be performed by the speech processing system 100 executed at the first user computing device with the output speech output via an output audio device (e.g., audio output device 130) of the first user computing device. Thus, any of the steps 302-312 can be executed on either of the first or second user computing device in some examples.

[0040] Referring now to FIG. 4, a flowchart of an exemplary method 400 for real-time accent mimicking is illustrated. In some examples, the method 400 may be implemented as a software application (e.g., software 116 executed by the central processing unit 102) or a module within a larger system. The software application or module may receive input audio data, perform accent mimicking operations, and provide an output speech in real-time, as explained in detail below

[0041] In step 402 in some examples, the speech processing system 100 receives first input speech associated with a first accent from a first user. The first input speech can be represented by first input audio data obtained via the audio interface 126 and a microphone 128, for example, although the first input speech can also be obtained over one or more communication networks from another computing device in other examples.

[0042] In step 404, the speech processing system 100 analyzes and/or categorizes the first input speech using one or more machine learning models that are trained to recognize accent features that distinguish one accent from another accent. For example, the speech processing system 100 in step 404 may apply the machine learning models to distinguish features such as phonetic variations (e.g., how the speaker produces sounds that differ from another accent (e.g., vowel shifts, consonant articulation)), rhythm and stress patterns as different accents can involve varied speech rhythms and emphasis on certain syllables or words, and/or prosodic features (e.g., patterns in pitch, intonation, and/or cadence that help define accents).

[0043] Based on the analysis in step 404, the speech processing system 100 extracts the accent features from the first input speech in step 406. In some examples, the extracted accent features include pitch contours or variation in pitch throughout the speech, intonation patterns including the rise and fall of pitch at the ends of phrases and sentences, and/or phoneme pronunciations or unique production of phonemes in different accents. These extracted accent features facilitate mimicking a first user's accent represented by the first input speech in a second user's speech.

[0044] Additionally, in step 406 the speech processing system 100 can transform the identified features into a form that can be used for modifying the second input speech (e.g., to mimic the accent of the first input speech). This transformation can involve encoding the accent features in a way that preserves them while allowing for transformation in the next steps explained in detail below. Alternatively, or in combination, the transformation of step 406 can include normalization or standardization of the features to ensure that they are compatible with the processing pipeline of the speech processing system 100 as described and illustrated by way of the examples herein.

[0045] In step 408, the speech processing system 100 analyzes second input speech including a second accent from a second user using the same or one or more different machine learning model(s) as used in step 404 to generate characteristics specific to a natural voice of the second user. In some examples, steps 402-406 can occur at a first user computing device associated with the first user concurrently with steps 408-412 executed at a second user computing device. Thus, one or both of the first or second user computing devices can be separate instantiations of the speech processing system 100 in some examples, with the accent mimicking described and illustrated herein being performed in one or both directions between those user computing devices.

[0046] The analysis in step 408 can include applying techniques such as MFCC or speaker identity encoding to the second input speech and/or extracting linguistic, prosodic, and/or global speaker characteristics from the second input speech. An MFCC analysis extracts a unique fingerprint of the second user's voice and a speaker identity encoding encodes speaker-specific voice characteristics of the second input speech. The fingerprint and/or encoding facilitate preservation of a natural sound of the second user's voice represented in the second input speech.

[0047] The machine learning model(s) used by the speech processing system 100 in step 408 are designed to identify vocal traits that are distinct to the second user, including phonetic patterns

(e.g., the specific sounds they produce), prosodic features (e.g., pitch, tempo, and/or stress patterns), articulation styles, intonation patterns, and/or voice quality (e.g., including timbre and/or resonance). These features collectively contribute to what we recognize as the 'natural voice' of the second user.

[0048] The purpose of the analysis in step 408 is to preserve natural voice identity and separate accent from identity. More specifically, the preservation of natural voice identity ensures that while the accent is being modified, the essential characteristics of the second user's natural voice remain intact, which is crucial in preventing the transformed speech from sounding artificial or mismatched with the second user's identity. The separation of accent from identity helps to distinguish between features that pertain to the second user's accent (i.e., the way speech sounds in terms of regional or social variations) and those that pertain to the speaker's inherent voice identity. This separate allows the speech processing system 100 to modify or adjust the accent without altering the second user's unique voice features.

[0049] The machine learning model(s) used in step 408 can be trained on large datasets containing a variety of voices and accents, allowing them to recognize subtle differences in how speech is produced. These machine learning model(s) can be trained using supervised learning approaches, where a labeled dataset of various speakers' voice recordings is used to teach the speech processing system 100 how to distinguish between different accents and voice qualities. Other types of, and/or methods for training, the machine learning model(s) can also be used in other examples.

[0050] Thus, the machine learning model(s) used in step 408 are configured to output extracted features that define the second user's voice, which can include pitch range and modulation (e.g., how the second user modulates their pitch during speech, which contributes to their unique voice signature), speech rate and rhythm (e.g., how fast or slow the second user speaks and the natural rhythm they follow, formant frequencies (e.g., the resonant frequencies of speech sounds, which help distinguish different accents), vocal timbre and resonance (e.g., the tonal quality of the voice that is unique to the speaker, which can be preserved during accent modification), and/or articulation patterns (e.g., the specific way the second user pronounces consonants and vowels, which is often influenced by their accent and voice mechanics). By analyzing the second input speech using the machine learning model(s), the speech processing system 100 ensures that the features of the second user's natural voice are accurately preserved while adjusting for the desired accent transformation. This process is

fundamental to achieving a realistic and personalized speech output that mimics the first user's accent while maintaining the authenticity of the second user's voice.

[0051] In step 410, the speech processing system 100 modifies the second user's second input speech in real-time based on the accent features extracted in step 406 from the first input speech and the characteristics specific to the natural voice of the second user generated in step 408. The synthesis in step 410 results in a modified version of the second input speech that preserves the natural quality of the second user's voice while mimicking the accent of the first user.

[0052] In step 412, the speech processing system delivers or outputs the modified version of the second input speech via output audio data, such as via the audio interface 126 and the audio output device 130, for example. The methods and systems described and illustrated by way of the examples herein have many practical applications including in virtual conference platforms, language learning applications, accent reduction, immersive gaming and virtual reality experiences, and to provide accessibility for speech impairments.

[0053] More specifically, the speech processing system 100 can be integrated into virtual conference platforms to enhance communication clarity by mimicking the accent of the primary speaker. In other examples, the speech processing system 100 can be used to provide real-time feedback to language learners by mimicking the accent of an instructor, helping learners improve their pronunciation and accent replication. The speech processing system 100 also can aid users with strong accents in adopting a listener's accent, enhancing communication clarity and reducing accent-related barriers.

[0054] In yet other examples, the speech processing system 100 can be integrated into video games and virtual reality experiences to enhance immersion by adjusting a user's speech to match the accent(s) of in-game characters or environments. Additionally, the speech processing system 100 can be adapted to improve accessibility for users with speech impairments by enhancing clarity and reducing communication barriers. The advantages of this technology can be leveraged in many other use cases and types of deployments.

[0055] Having thus described the basic concept of the invention, it will be rather apparent to those skilled in the art that the foregoing detailed disclosure is intended to be presented by way of example only and is not limiting. Various alterations, improvements, and modifications will occur and are intended for those skilled in the art, though not expressly stated herein. These alterations, improvements, and modifications are intended to be suggested hereby, and are within the spirit and scope of the invention. Additionally, the recited order of processing elements or sequences, or the use of numbers, letters, or other designations, therefore, is not intended to limit the claimed processes to any order except as may be specified in the claims. Accordingly, the invention is limited only by the following claims and equivalents thereto.

CLAIMS

What is claimed is:

1. A speech processing system, comprising an audio interface coupled to a microphone and an audio output device, memory having instructions stored thereon, and one or more processors coupled to the memory and the audio interface and configured to execute the instructions to:

apply one or more trained machine learning models to first input audio data obtained via the microphone and the audio interface to extract accent features of first input speech associated with a first accent of a first user;

analyze obtained second input data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user;

synthesize a modified version of the second input speech based on the generated characteristics and the extracted accent features, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent; and

provide to the audio interface output audio data for output via the audio output device, wherein the output audio data is generated based on the modified version of the second input speech.

2. The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to extract from the input audio data one or more prosodic features, linguistic features, or global speaker characteristics.

3. The speech processing system of claim 1, wherein the accent features comprise one or more pitch contours, intonation patterns, or phoneme pronunciations and the pitch contours comprise variations in pitch throughout the first input speech, the intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent.

4. The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to apply a mel frequency cepstral coefficient (MFCC) analysis to extract a unique fingerprint of the voice of the second user, wherein the generated characteristics comprise the unique fingerprint.

5. The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to apply a speaker identity encoding technique to encode speaker-specific voice characteristics, wherein the generated characteristics comprise the speaker-specific voice characteristics

6. The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to receive the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device.

7. A method for real-time accent mimicking, the method implemented by a speech processing system and comprising:

applying one or more trained machine learning models to first input audio data to extract accent features of first input speech associated with a first accent of a first user;

analyzing obtained second input data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user;

synthesizing a modified version of the second input speech based on the generated characteristics and the extracted accent features; and

providing output audio data generated based on the modified version of the second input speech.

8. The method of claim 7, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent.

9. The method of claim 7, further comprising extracting from the input audio data one or more prosodic features, linguistic features, or global speaker characteristics.

10. The method of claim 7, wherein the accent features comprise one or more pitch contours, intonation patterns, or phoneme pronunciations and the pitch contours comprise variations in pitch throughout the first input speech, the intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent.

11. The method of claim 7, further comprising applying a mel frequency cepstral coefficient (MFCC) analysis to extract a unique fingerprint of the voice of the second user, wherein the generated characteristics comprise the unique fingerprint.

12. The method of claim 7, further comprising applying a speaker identity encoding technique to encode speaker-specific voice characteristics, wherein the generated characteristics comprise the speaker-specific voice characteristics.

13. The method of claim 7, further comprising receiving the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device.

14. A non-transitory computer-readable medium comprising instructions that, when executed by at least one processor, cause the at least one processor to:

apply one or more trained machine learning models to first input audio data obtained via a microphone to extract accent features of first input speech associated with a first accent of a first user;

analyze obtained second input data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user;

synthesize a modified version of the second input speech based on the generated characteristics and the extracted accent features; and

provide for output via an audio output device output audio data generated based on the modified version of the second input speech.

15. The non-transitory computer-readable medium of claim 14, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent.

16. The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to extract from the input audio data one or more prosodic features, linguistic features, or global speaker characteristics.

17. The non-transitory computer-readable medium of claim 14, wherein the accent features comprise one or more pitch contours, intonation patterns, or phoneme pronunciations and the pitch contours comprise variations in pitch throughout the first input speech, the intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent.

18. The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to apply a mel frequency cepstral coefficient (MFCC) analysis to extract a unique fingerprint of the voice of the second user, wherein the generated characteristics comprise the unique fingerprint.

19. The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to apply a speaker identity encoding technique to encode speaker-specific voice characteristics, wherein the generated characteristics comprise the speaker-specific voice characteristics.

20. The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to receive the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device.

ABSTRACT

The disclosed technology relates to methods, speech processing systems, and non-transitory computer readable media for real-time accent mimicking. In some examples, trained machine learning model(s) are applied to first input audio data to extract accent features of first input speech associated with a first accent of a first user. Obtained second input data associated with second input speech associated with a second accent of a second user is analyzed to generate characteristics specific to a natural voice of the second user. A modified version of the second input speech is synthesized based on the generated characteristics and the extracted accent features. The modified version of the second input speech advantageously preserves aspects of the natural voice of the second user and mimics the first accent. Output audio data generated based on the modified version of the second input speech is provided for output via an audio output device.

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

Title of Invention	SYSTEM AND METHOD FOR REAL-TIME ACCENT MIMICKING		
This statement is directed to:			
☒ The attached application,			
OR			
☐ United States application or PCT international application number _____ filed on _____			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
David BRAUDE			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Edinburgh		SCOTLAND	
Mailing Address (except for a deceased or legally incapacitated inventor):			
c/o Sanas.ai Inc., 437 Lytton Avenue, Suite 200			
City	State	Zip	Country
Palo Alto	CA	94301	US
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
☐ Legal Representative (for deceased or legally incapacitated inventor only).			
☐ Assignee,			
☒ Person to whom the inventor is under an obligation to assign,			
☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
☐ Joint Inventor.			

[Page 1 of 2]

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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased.
- ☐ Inventor is under legal incapacity.
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

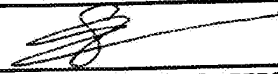
- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

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PERSON EXECUTING THIS SUBSTITUTE STATEMENT:Name: **Maxim Serebryakov**

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Sanas.ai Inc.

Applicant Name:

Title of Person Executing
This Substitute Statement: **CEO**

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City **Palo Alto**State **CA**Country **US**

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

437 Lytton Avenue, Suite 200City **Palo Alto**State **CA**Zip **94301**Country **US**

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

[Page 2 of 2]

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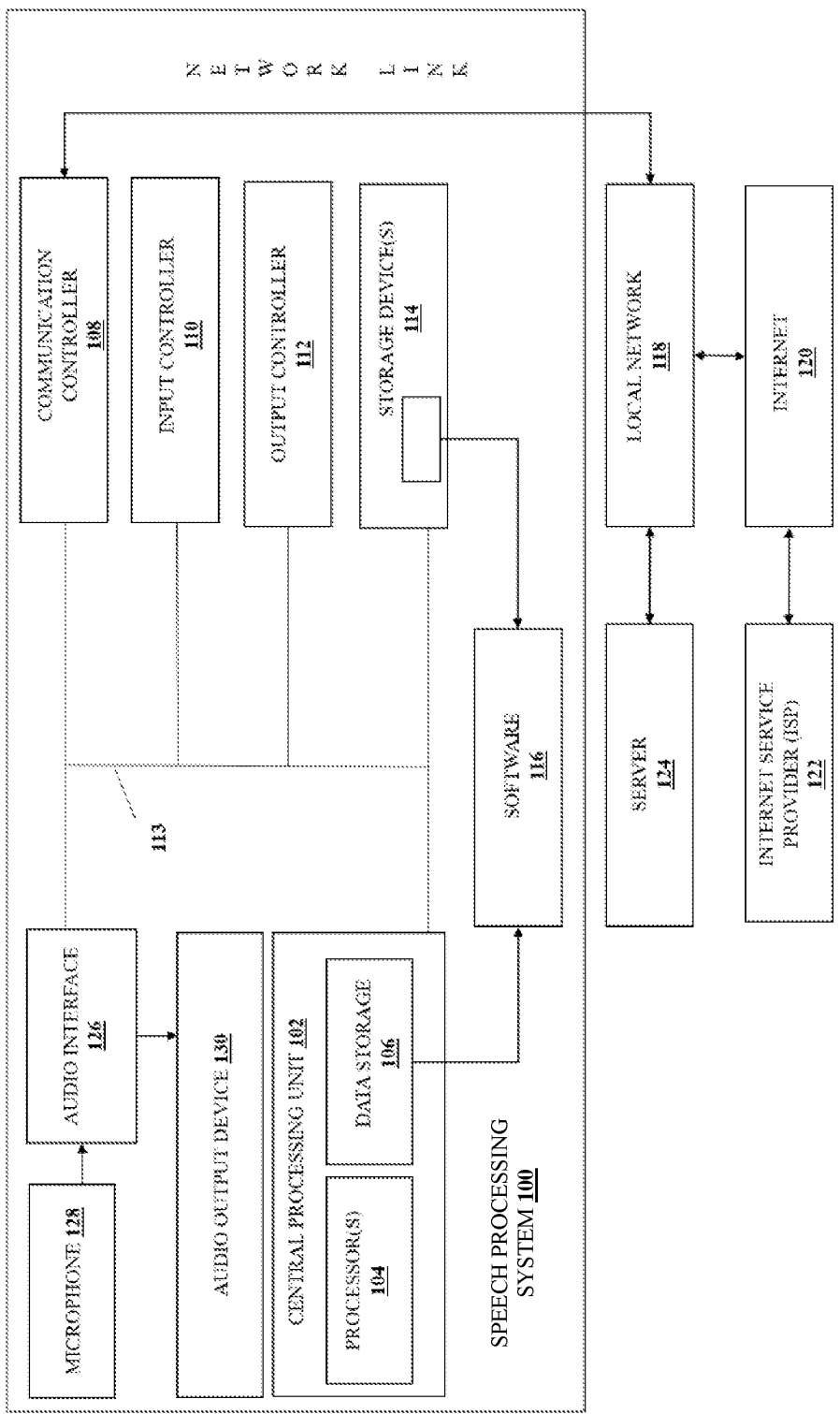


FIG. 1

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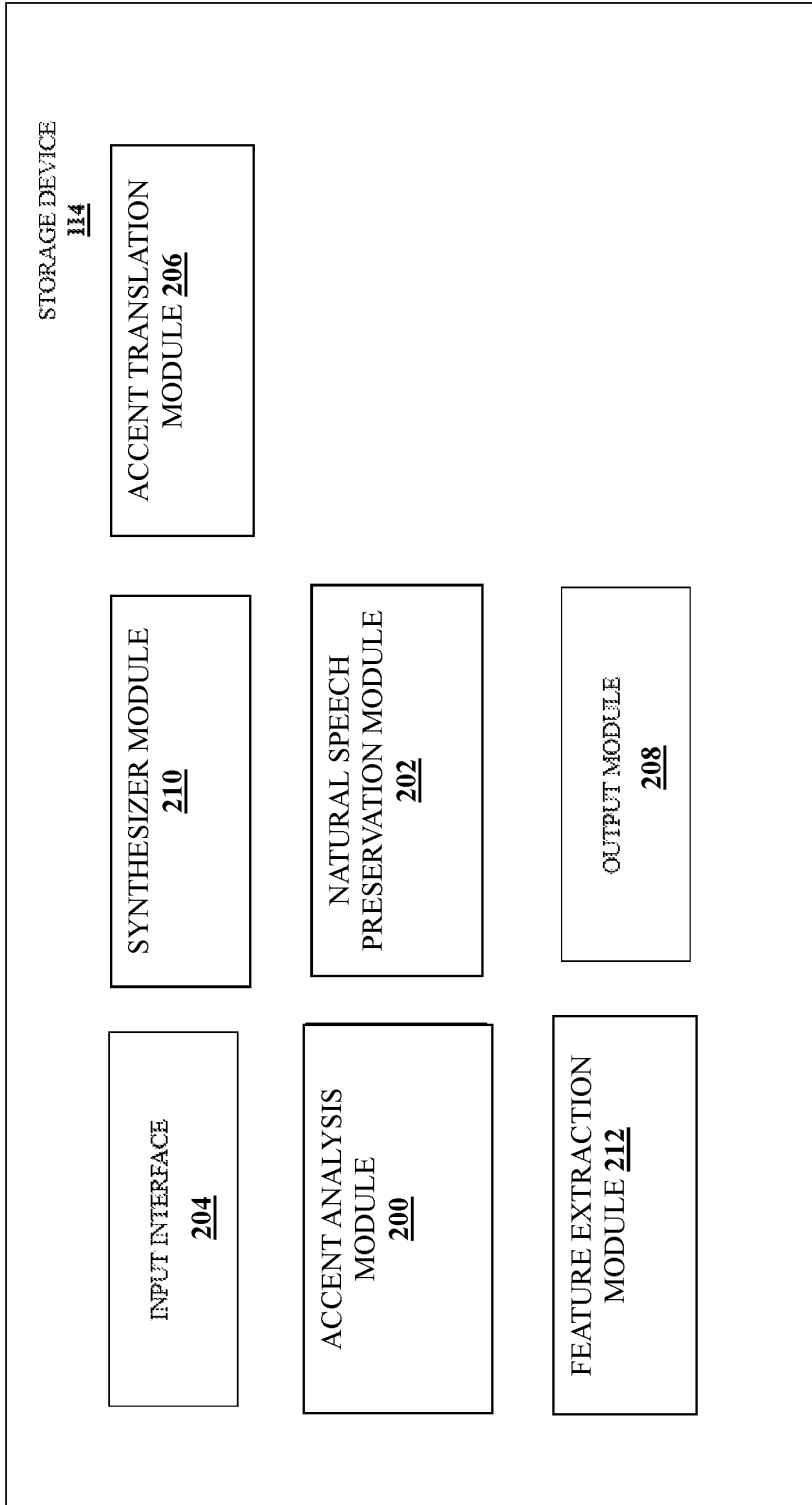


FIG. 2

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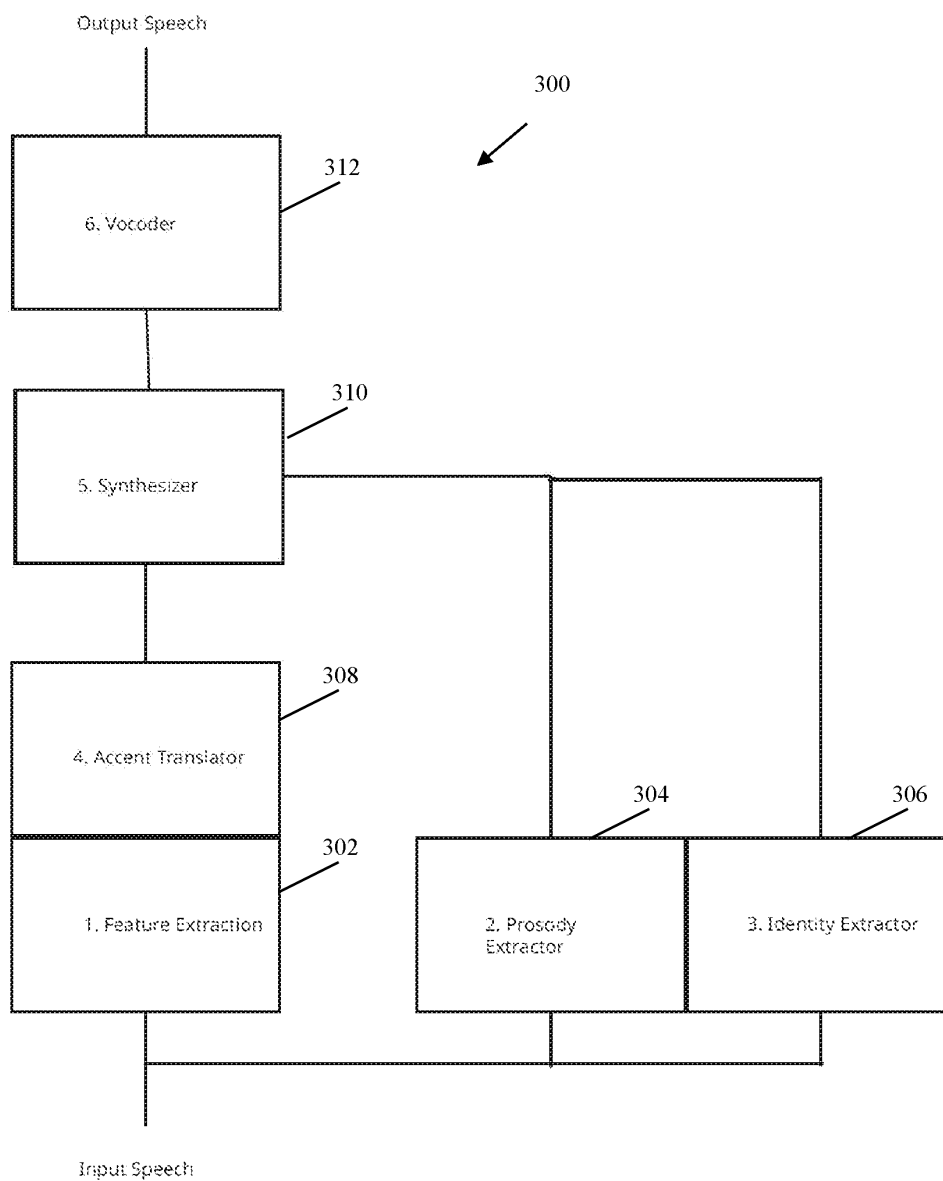


FIG. 3

400

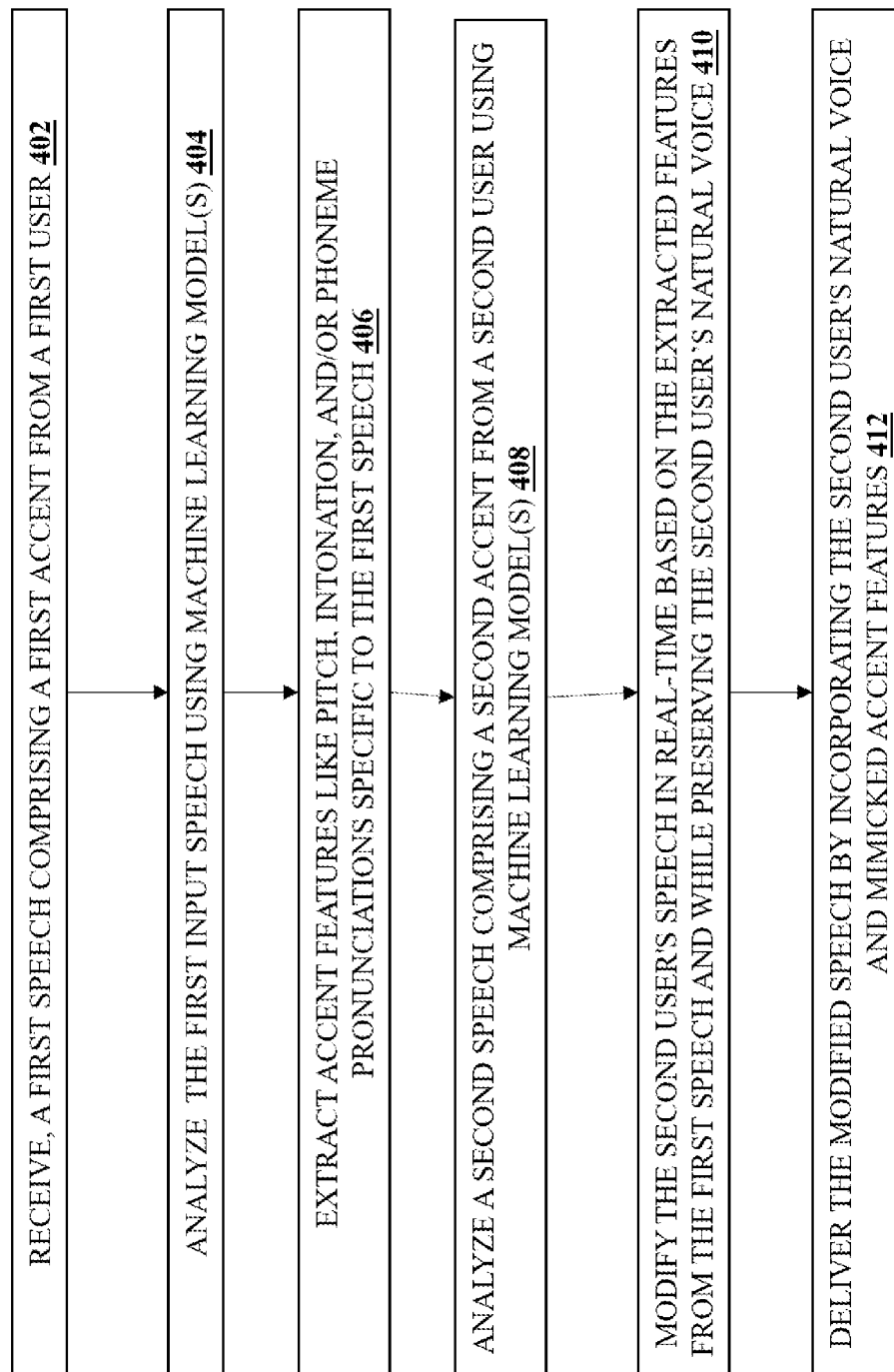
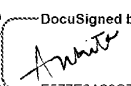


FIG. 4

304307086v1

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
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Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING
As the below named inventor, I hereby declare that: This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ filed on _____. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. LEGAL NAME OF INVENTOR Inventor: <u>Ankita JHA</u> DocuSigned by: _____ Date (Optional): <u>1/2/2025</u> Signature: <u></u> E577E8A26C7C47C... Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

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Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)Title of
Invention**SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING**

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This declaration
is directed to:

The attached application, or

United States application or PCT international application number _____
filed on _____

The above-identified application was made or authorized to be made by me.

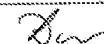
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTORInventor: **Piotr DURA**

Date (Optional): _____

Signature: 

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Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING
-------------------------------	---

As the below named inventor, I hereby declare that:

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☐ United States application or PCT international application number _____
filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

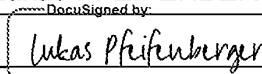
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: **Lukas PFEIFENBERGER** Date (Optional): **1/14/2025**

Signature: 
EAB05E7C7E3E40D

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 minute per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of
Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number

filed on

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Maxim SEREBRYAKOV

Date (Optional):

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 minute per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Ankita		JHA		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Bangalore	Country of Residence ⁱ	IN		
Mailing Address of Inventor:					
Address 1	c/o Sanas.ai Inc.				
Address 2	437 Lytton Avenue, Suite 200				
City	Palo Alto	State/Province	CA		
Postal Code	94301	Country ⁱ	US		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Lukas		PFEIFENBERGER		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Salzburg	Country of Residence ⁱ	AT		
Mailing Address of Inventor:					
Address 1	c/o Sanas.ai Inc.				
Address 2	437 Lytton Avenue, Suite 200				
City	Palo Alto	State/Province	CA		
Postal Code	94301	Country ⁱ	US		
Inventor 3					Remove
Legal Name					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Prefix	Given Name	Middle Name	Family Name	Suffix
	Piotr		DURA	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Warsaw	Country of Residence ⁱ	PL	

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.			
Address 2	437 Lytton Avenue, Suite 200			
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	
Inventor 4				Remove
Legal Name				

Prefix	Given Name	Middle Name	Family Name	Suffix
	David		BRAUDE	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Edinburgh	Country of Residence ⁱ	GB	

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.			
Address 2	437 Lytton Avenue, Suite 200			
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	
Inventor 5				Remove
Legal Name				

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alvaro		ESCUDERO	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	San Sebastian de los Reyes	Country of Residence ⁱ	ES	

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.			
Address 2	437 Lytton Avenue, Suite 200			
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Inventor 6 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Shawn		ZHANG	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence US
Mailing Address of Inventor:				
Address 1	c/o Sanas.ai Inc.			
Address 2	437 Lytton Avenue, Suite 200			
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	
Inventor 7 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Maxim		SEREBRYAKOV	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence US
Mailing Address of Inventor:				
Address 1	c/o Sanas.ai Inc.			
Address 2	437 Lytton Avenue, Suite 200			
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add				

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
☐ An Address is being provided for the correspondence information of this application.	
Customer Number	11951
Email Address	Add Email Remove Email

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Application Information:

Title of the Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Attorney Docket Number	264248.000171	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☒ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.			
Please Select One: ☒ Customer Number ☐ US Patent Practitioner ☐ Limited Recognition (37 CFR 11.9)			
Customer Number	11951		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	63678180	2024-08-01
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Remove
			Access Code ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor	
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Sanas.ai Inc.		
Mailing Address Information For Applicant:			
Address 1	437 Lytton Avenue, Suite 200		
Address 2			
City	Palo Alto	State/Province	CA
Country	US	Postal Code	94301
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ¹		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Nicholas J. Gallo/		Date (YYYY-MM-DD)	2025-01-17
First Name	Nicholas J.	Last Name	Gallo	Registration Number
				60,758
Additional Signature may be generated within this form by selecting the Add button.				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the international Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 01/17/2025 01:29:30 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Nicholas Gallo
PATENT CENTER #	68798986	AUTHORIZED BY	Nicholas Gallo
CUSTOMER #	11951	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Ankita JHA

Payment Information

PAYMENT METHOD DA / 500436	PAYMENT TRANSACTION ID E20251GD30017161	PAYMENT AUTHORIZED BY Nicholas Gallo
PRE-AUTHORIZED ACCOUNT 500436	PRE-AUTHORIZED CATEGORY 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.21 (Miscellaneous fees and charges)	

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2817	REQUEST FOR PRIORITIZED EXAMINATION	1680.00	1	1680.00
2111	UTILITY PATENT APPL. SEARCH FEE	280.00	1	280.00
4011	BASIC FILING FEE- UTILITY	64.00	1	64.00
2311	EXAMINATION OF ORIGINAL PATENT APPLICATION	320.00	1	320.00
TOTAL AMOUNT:				\$2,344.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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Application Number	To be Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Ankita JHA
Title	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING
Art Unit	To be Assigned
Examiner Name	To be Assigned
Attorney Docket Number	264248.000171

SIGNATURE of Applicant or Patent Practitioner

Signature	/Nicholas J. Gallo/	Date (Optional)	2025-01-17
Name	Nicholas J. Gallo	Registration Number	60,758
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)		Sanas.ai Inc.	

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



*Total of 1 forms are submitted.

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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

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- OR
- ☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

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I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Sanas.ai Inc.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

Maxim Serebryakov

Title

Chief Executive Officer

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 01/17/2025 01:29:30 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Nicholas Gallo
PATENT CENTER #	68798986	FILING DATE	-
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents

TOTAL DOCUMENTS: 8

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20250117_UTILITY_Applicati on_264248_000171- APP.TEXT.docx	19	Application body structured text document	44 KB
Warning: Bookmarks were found and have been removed. At least one claim appears to not end with a period. Please review and revise if necessary.			
20250117_Drawings_264248 _000171.pdf	4	Drawings-only black and white line drawings	241 KB
20250117_Certification_Req uest_Prioritized_Examination _264248_000171.pdf	2	Track One Request	164 KB
20250117_ADS_264248_00 0171.pdf	10	Application Data Sheet	116 KB

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20250117_Signed_Declarations_264248_000171.pdf	6	Oath or Declaration filed	4793 KB
Signed_Substitute Statement_264248_000171.pdf	3	Oath or Declaration filed	7033 KB
20250117_POA_264248_00171.pdf	2	Power of Attorney	280 KB
20250117_UTILITY_Application_264248_000171.pdf	19	Auxiliary PDF of Application	182 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20250117_UTILITY_Application_264248_000171-APP.TEXT.docx	21BF63D47134311818D64F3EB81AA2795E770E3DD949D36EF1F50FAE5F496E19967A7742427068C58FB3A859F8BD169D0511871E2353DBCE9B8A839030D4D97D
20250117_Drawings_264248_000171.pdf	6AF231C1B944CED1EA3CCCFD6EAABCE7D1994F01A9F26F8BA644DDC549159D45A6AD6BC49F540E6F859B6457BE563B4881829C04057D42AF8D77A7649458B2A
20250117_Certification_Request_Prioritized_Examination_264248_000171.pdf	721595697FE7B7E282361450FD6A1BA8E16560D158081AD01492B474E5C8E277B4664C74A5624A046A3D3F94D39C0C0AA91CF48F5C19357835FE2837A36E78D3
20250117_ADS_264248_000171.pdf	9FE514DDA2E5F13D52969A4EEA975323C3523EA089D20016CDD602DC7D2A93B04615794A0B2CC3DA508DC57DFF628AD787ADDE823043A343AB0362DE1A247F57
20250117_Signed_Declarations_264248_000171.pdf	11573AB714410ABA10432BC49D339E5AE7B9D18943D62D792815D47A68BCB066D7C9B1777CFC464A0ABED5C909CD3C72E6F085AE44EE11D0C0CF05ADA6C579A5
Signed_Substitute Statement_264248_000171.pdf	FB93AC9394B7A5C8EC562E48EFEE3734F9F82AC9A7DB6F365130D5A23E9005F9B922974BC1ED626B893EAA55FC9B088B16D895AF96E08EA039E39D5F89425512
20250117_POA_264248_000171.pdf	7B14A8B7197E559F09DC8740E79D60407B5E355B75A07DD7DA5C424399212B1F0E55765713955FA6BBF07B17C093C59243C61A1DFC8163B5A03F6E5FBEF09335
20250117_UTILITY_Application_264248_000171.pdf	6077A7BD0E348A42672DFA6FEDE5ED5E4E39F0CBA8A67DB425381723B85FB504325DFC5DCB1E06FF8DC309BC9A957485AD529A48042899BD9C3A065136D536DD

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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
19/027,799	01/17/2025		664	264248.000171	20	3

CONFIRMATION NO. 8023

11951

Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

FILING RECEIPT



0000000084256859

Date Mailed: 02/11/2025

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Ankita JHA, Bangalore, INDIA;
Lukas Pfeifenberger, Salzburg, AUSTRIA;
Piotr Dura, Warsaw, POLAND;
David Braude, Edinburgh, UNITED KINGDOM;
Alvaro Escudero, San Sebastian de los Reyes, SPAIN;
Shawn Zhang, Palo Alto, CA;
Maxim Serebryakov, Palo Alto, CA;

Applicant(s)

Sanas.ai Inc., Palo Alto, CA;

Power of Attorney: The patent practitioners associated with Customer Number 11951

Domestic Applications for which benefit is claimed

This appln claims benefit of 63/678,180 08/01/2024

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - **None.**
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 02/10/2025

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 19/027,799**

Projected Publication Date: 05/22/2025

Non-Publication Request: No

Early Publication Request: Yes

**** SMALL ENTITY ****

Title

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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page 2 of 4

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 19/027,799				
APPLICATION AS FILED - PART I										
		(Column 1)	(Column 2)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
FOR		NUMBER FILED		NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)	
BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A	N/A	64		N/A		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A	N/A	280		N/A		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A	N/A	320		N/A		
TOTAL CLAIMS (37 CFR 1.16(i))		20	minus 20 =	*	0					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		3	minus 3 =	*	0					
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).					0				
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))						0				
					TOTAL	664		TOTAL		
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE				TOTAL ADD'L FEE	
		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE				TOTAL ADD'L FEE	
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19027799

Effective Date
01/17/2025

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I202536B34385003	2830	PROCESSING FEE, EXCEPT PROV. APPLS.	\$56.00	Deposit Account



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023
11951	7590	03/07/2025	EXAMINER	
Troutman Pepper Locke LLP (Rochester)			CENTRAL, DOCKET	
70 Linden Oaks				
Suite 210				
Rochester, NY 14625			ART UNIT	PAPER NUMBER
			OPAP	
			NOTIFICATION DATE	DELIVERY MODE
			03/07/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Patents@troutman.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 19/027,799	Applicant(s) JHA et al.	
	Examiner ANGELA E WALKER	Art Unit OPET	AIA (FITF) Status Yes
1. THE REQUEST FILED <u>17 January 2025</u> IS GRANTED . The above-identified application has met the requirements for prioritized examination A. ☒ for an original nonprovisional application (Track I). B. ☐ for an application undergoing continued examination (RCE). 2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs: A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u> ; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application. Telephone inquiries with regard to this decision should be directed to ANGELA WALKER at (571) 272-1058. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.			
/ANGELA E WALKER/ Paralegal Specialist, OPET			

Notice of References Cited	Application/Control No. 19/027,799		Applicant(s)/Patent Under Reexamination JHA et al.	
	Examiner JAKIEDA R JACKSON		Art Unit 2657	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20230267941-A1	2023-08-24	Nagpal; Abhishek	G10L21/007	1/1
*	B	US-11741965-B1	2023-08-29	Opp; Ramsey Abou-Zaki	G10L13/086	704/270
*	C	US-20200004820-A1	2020-01-02	Chhaya; Niyati Himanshu	G06F40/30	1/1
*	D	US-20180203847-A1	2018-07-19	Akkiraju; Rama K.	G06F16/3329	1/1
*	E	US-20080269958-A1	2008-10-30	Filev; Dimitar Petrov	G06N3/006	701/1
*	F	US-20080205629-A1	2008-08-28	Basson; Sara H.	H04M3/5233	379/265.12
*	G	US-20170169814-A1	2017-06-15	Pashine; Rajat	G10L15/06	1/1
*	H	US-11120219-B2	2021-09-14	Alloh; Mustafa	G10L15/005	1/1
*	I	US-20240161764-A1	2024-05-16	MAIKHURI; Ajay	G10L21/007	1/1
*	J	US-20240146560-A1	2024-05-02	Swerdlow; Nick	H04L12/1831	1/1
*	K	US-20220131973-A1	2022-04-28	TALIB; HAYDAR	H04M3/2281	1/1
*	L	US-11134217-B1	2021-09-28	Goel; Surendra	G06V40/174	1/1
*	M	US-20210098013-A1	2021-04-01	Day; Phil Noel	H04L65/764	1/1

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 11-2023)

Notice of References Cited

Part of Paper No. 20250313

Notice of References Cited	Application/Control No. 19/027,799		Applicant(s)/Patent Under Reexamination JHA et al.	
	Examiner JAKIEDA R JACKSON		Art Unit 2657	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20200193971-A1	2020-06-18	FEINAUER; Christoph Johann	G10L15/075	1/1
*	B	US-20140187210-A1	2014-07-03	Chang; Patricia R.	H04W4/16	455/414.1
*	C	US-12243511-B1	2025-03-04	Joly; Arnaud Vincent Pierre Yves	G10L15/26	1/1
*	D	US-12087270-B1	2024-09-10	Cygert; Sebastian Dariusz	G10L13/047	1/1
*	E	US-20180146370-A1	2018-05-24	Krishnaswamy; Ashok	G10L19/018	1/1
*	F	US-20160275952-A1	2016-09-22	Kashtan; Guy	G10L17/00	1/1
	G					
	H					
	I					
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	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 11-2023)

Notice of References Cited

Part of Paper No. 20250313

<i>Index of Claims</i> 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	03/13/2025								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

<i>Search Notes</i> 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

CPC - Searched*		
Symbol	Date	Examiner
G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) - text limited	03/13/2025	JJ
G06F(40/58 2203/011) - text limited	03/13/2025	JJ

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
PE2E Search	03/13/2025	JJ
IP.com	03/13/2025	JJ
Reviewed for DP	03/13/2025	JJ
Inventor Search	03/13/2025	JJ
Reviewed for 101	03/13/2025	JJ

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<i>Search Notes</i> 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G10L	15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013	03/13/2025	JJ
G06F	40/58 2203/011	03/13/2025	JJ

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Bibliographic Data

Application No: 19/027,799

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /JAKIEDA R JACKSON/

Examiner's Signature

Initials

Title:

SYSTEMS AND METHODS FOR REAL-TIME ACCENT
MIMICKING

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/17/2025	704	2657	
RULE			

APPLICANTS

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Maxim Serebryakov, pALO aLTO, CA, UNITED STATES

CONTINUING DATA

This application has PRO of 63678180 08/01/2024

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

02/10/2025

** SMALL ENTITY **

STATE OR COUNTRY

ADDRESS

FILING FEE RECEIVED

\$2,344

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	4086142	(dynamic\$4 real\$3tim\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 11:02 AM
L2	2470	(dynamic\$4 real\$3tim\$4) SAME accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 11:02 AM
L3	3	(dynamic\$4 real\$3tim\$4) SAME (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) near2 (mimick\$4 morph\$6) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 11:13 AM
L4	1	(dynamic\$4 real\$3tim\$4) SAME (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) near2 (mimick\$4 morphing) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 11:46 AM
L5	61	(pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) near2 (mimick\$4 morphing) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 11:46 AM
L6	11	("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643").did. OR ("17036464" "15406747" "16913139").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:00 PM
L7	11	("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030"	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:00 PM

		"20200004820" "20140272908" "20160379643").did. OR ("17036464" "15406747" "16913139").pn.					
L8	0	("17036464" "15406747" "16913139").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:01 PM
L9	13	("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:02 PM
L10	304	(pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) near4 (mimick\$4 morphing edit\$6) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:04 PM
L11	3	("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:06 PM
L12	12	("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.) AND (pronunciat\$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:07 PM

		pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4)					
L13	11	((("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.) AND second\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:09 PM
L14	2	((("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.) AND second\$4 near2 (speaker\$4 user\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:09 PM
L15	1	"15215215".pn. OR "20100042410".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:17 PM
L16	1	"15215251".pn. OR "20100042410".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:17 PM
L17	1	"20080205629".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:18 PM
L18	1	"20080205629".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:18 PM
L19	1	"20170169814".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:22 PM
L20	1	"20160358600".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:23 PM
L21	1	"11120219".pn. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:24 PM
L22	35	design\$4 near2 dialog\$6 near2 languag\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:25 PM
L23	4	design\$4 near2 dialog\$6 near2 languag\$4 AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:35 PM

L24	38	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (accent\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:36 PM
L25	291	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:37 PM
L26	137398	G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:38 PM
L27	99	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:39 PM
L28	85	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:39 PM
L29	50	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:15 PM
L30	44	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:16 PM

		(customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4)					
L31	13	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (finger\$4print\$4 audio\$4print\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:18 PM
L32	8	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (MFCC OR (mel near2 frequenc\$4))	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:18 PM
L33	5	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:19 PM

		linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (MFCC OR (mel near2 frequenc\$4)) AND (speaker\$4) near2 (recogn\$6 identi\$6 authentikat\$4)					
L34	12	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (speaker\$4) near2 (recogn\$6 identi\$6 authentikat\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:20 PM
L35	16	((US-20230267941-A1 OR US-20200004820- A1 OR US- 20180203847-A1 OR US-20080269958-A1 OR US-20080205629- A1 OR US- 20170169814-A1 OR US-20240267572-A1 OR US-20240161764- A1 OR US- 20240146560-A1 OR US-20220131973-A1 OR US-20210098013- A1 OR US- 20200193971-A1 OR US-20140187210- A1).did. AND PGPB.dbnm.) OR ((US- 11741965-B1 OR US- 11120219-B2 OR US- 11134217-B1).did. AND USPT.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/13 01:25 PM
L36	1984516	(G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:28 PM

		2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas.					
L37	2	((((US-20230267941-A1 OR US-20200004820-A1 OR US-20180203847-A1 OR US-20080269958-A1 OR US-20080205629-A1 OR US-20170169814-A1 OR US-20240267572-A1 OR US-20240161764-A1 OR US-20240146560-A1 OR US-20220131973-A1 OR US-20210098013-A1 OR US-20200193971-A1 OR US-20140187210-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1).did. AND USPT.dbnm.)) AND (finger\$4print\$4 audio\$4print\$4)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/13 01:29 PM
L38	1	((((US-20230267941-A1 OR US-20200004820-A1 OR US-20180203847-A1 OR US-20080269958-A1 OR US-20080205629-A1 OR US-20170169814-A1 OR US-20240267572-A1 OR US-20240161764-A1 OR US-20240146560-A1 OR US-20220131973-A1 OR US-20210098013-A1 OR US-20200193971-A1 OR US-20140187210-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1).did. AND USPT.dbnm.)) AND (finger\$4print\$4 audio\$4print\$4) AND (speaker\$4 user\$3) near2 (recogni\$6 identif\$6 authentic\$6)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/13 01:29 PM

L39	13097	(MFCC OR (mel near2 frequenc\$4))	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:31 PM
L40	10959	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:31 PM
L41	1964	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:31 PM
L42	1495	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) AND (speaker\$4 user\$4) near2 (recogn\$6 identif\$6)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:32 PM
L43	540	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) SAME (speaker\$4 user\$4) near2 (recogn\$6 identif\$6)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:32 PM
L44	153	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:32 PM

		15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) SAME (speaker\$4 user\$4) near2 (recogn\$6 identif\$6) AND accent\$4					
L45	52	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) SAME (speaker\$4 user\$4) near2 (recogn\$6 identif\$6) AND accent\$4 NOT amazon	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:35 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



Search History

Report Run Date: 2025-03-13 UTC

Searches: 1

Markers: 0

Search #	Timestamp	Results	Page
1	2025-03-13 16:13 UTC	43,662	3



Content: Patent Publications (169)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications

1 2025-03-13 16:13 UTC | 43,662 results from

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

communicate with a user that has a different accent by editing the speech

Concept Modifiers: None

Filters: None



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023
11951	7590	03/19/2025	EXAMINER	
Troutman Pepper Locke LLP (Rochester)			JACKSON, JAKIEDA R	
70 Linden Oaks			ART UNIT	PAPER NUMBER
Suite 210			2657	
Rochester, NY 14625			NOTIFICATION DATE	DELIVERY MODE
			03/19/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Patents@troutman.com

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claim(s) 1-3, 6-10, 13-17 and 20 is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Feinauer et al. (PGPUB 2020/0193971), hereinafter referenced as Feinauer.

Regarding **claims 1, 7-8 and 14-15**, Feinauer discloses a speech processing system, method and medium, hereinafter referenced as a system comprising:

an audio interface (user interface; fig. 1, element 123) coupled to a microphone and an audio output device (figure 1, element 126 with p. 0031),

memory having instructions stored thereon (figure 1, element 103), and one or more processors (figure 1, element 122) coupled to the memory and the audio interface and configured to execute the instructions to:

apply one or more trained machine learning models (trained machine learning models; p. 0062) to first input audio data obtained via the microphone and the audio interface to extract accent features of first input speech associated with a first accent of a first user (first participant; p. 0041, 0046);

analyze obtained second input data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user (second participant; p. 0041, 0046);

synthesize a modified version of the second input speech based on the generated characteristics and the extracted accent features, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent (duplicating accent/optimal accent; p. 0005-0007, 0054); and

provide to the audio interface output audio data for output via the audio output device, wherein the output audio data is generated based on the modified version of the second input speech (accent and dialect modifier modifies the voice of the user into an accent or dialect desired or target for the participant; p. 0007, 0046).

Regarding **claims 2, 9 and 16**, Feinauer discloses a system wherein the one or more processors are further configured to execute the instructions to extract from the input audio data one or more prosodic features (p. 0095, 0099, 0100), linguistic features, or global speaker characteristics.

Regarding **claims 3, 10 and 17**, Feinauer discloses a system wherein the accent features comprise one or more pitch contours (pitch; p. 0057), intonation patterns (p. 0074), or phoneme pronunciations and the pitch contours comprise variations in pitch

throughout the first input speech, the intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent (p. 0040, 0065, 0073, 0091, 0117).

Regarding **claims 6, 13 and 20**, Feinauer discloses a system wherein the one or more processors are further configured to execute the instructions to receive the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device (figs. 2-3 with p. 0051-0052).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim(s) 4-5, 11-12 and 18-19 is/are rejected under 35 U.S.C. 103 as being unpatentable over Feinauer in view of Kashtan et al. (PGPUB 2016/0275952), hereinafter referenced as Kashtan.

Regarding **claims 4, 11 and 18**, Feinauer discloses a system wherein the one or more processors are further configured to execute the instructions to apply a mel frequency cepstral coefficient (MFCC) analysis (p. 0095), but does not specifically teach

to extract a unique fingerprint of the voice of the second user, wherein the generated characteristics comprise the unique fingerprint.

Kashtan discloses a system comprising extracting a unique fingerprint of the voice of the second user, wherein the generated characteristics comprise the unique fingerprint (p. 0037-0045), to assist with identifying a user.

Therefore, it would have been obvious to one of ordinary skill of the art, before the effective filing date of the claimed invention, to modify the method as described above, to provide a tailored user's experience.

Regarding **claims 5, 12 and 19**, it is interpreted and rejected for similar reasons as set forth above. In addition, Kashtan discloses a system wherein the one or more processors are further configured to execute the instructions to apply a speaker identity encoding technique to encode speaker-specific voice characteristics, wherein the generated characteristics comprise the speaker-specific voice characteristics (speech characteristics; p. 0037).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. This information has been detailed in the PTO 892 attached (Notice of References Cited).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAKIEDA R JACKSON whose telephone number is (571)272-7619. The examiner can normally be reached Mon - Fri 6:30a-2:30p.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Washburn can be reached on 571.272.5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAKIEDA R JACKSON/
Primary Examiner, Art Unit 2657



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
19/027,799	01/17/2025	Ankita JHA	264248.000171

CONFIRMATION NO. 8023

11951

Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

PUBLICATION NOTICE



OC000000089091625

Date Mailed: 05/22/2025

Title:SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Publication No.US-2025-0166603-A1

Publication Date:05/22/2025

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be viewed using the USPTO's publicly available Searchable Databases via the Patent Public Search tool at www.uspto.gov. The direct link to access the Patent Public Search tool is currently <https://ppubs.uspto.gov/pubwebapp/static/pages/ppubsbasic.html>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through Patent Center, the USPTO's electronic patent application filing and management system. The direct link to access this status information is currently <https://patentcenter.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of Patent Center.

Further assistance in electronically accessing the publication, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 19/027,799		Filing Date 01/17/2025		☐ To be Mailed	
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO									
APPLICATION AS FILED - PART I									
	(Column 1)	(Column 2)							
FOR	NUMBER FILED	NUMBER EXTRA			RATE (\$)			FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*			x \$40 =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*			x \$192 =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.							TOTAL		
APPLICATION AS AMENDED - PART II									
	(Column 1)	(Column 2)	(Column 3)						
AMENDMENT	06/10/2025	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(j))	* 20	Minus	** 20	= 0		x \$80 =	0	
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x \$240 =	0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE	0		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(j))	*	Minus	**	=		x \$0 =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x \$0 =		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/TINA M. BELL/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".									
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors	:	Ankita Jha et al.	)	
			)	
Applicant	:	Sanas.ai Inc.	)	
			)	
Serial No.	:	19/027,799	)	Examiner:
			)	Jakieda R. Jackson
Cnfrm. No.	:	8023	)	
			)	
Filed	:	January 17, 2025	)	Art Unit:
			)	2657
			)	
For	:	SYSTEMS AND METHODS FOR REAL-	)	
		TIME ACCENT MIMICKING	)	

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In response to the March 19, 2025 non-final Office action, please amend the above-identified patent application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 7 of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A speech processing system, comprising an audio interface coupled to a microphone and an audio output device, memory having instructions stored thereon, and one or more processors coupled to the memory and the audio interface and configured to execute the instructions to:

apply one or more trained machine learning models to first input audio data obtained via the microphone and the audio interface to extract accent features of first input speech associated with a first accent of a first user;

analyze obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics correspond to vocal traits that are distinct to the second user and comprise one or more of a voice quality or one or more phonetic patterns, prosodic features, articulation styles, or intonation patterns;

synthesize a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent; and

provide to the audio interface output audio data for output via the audio output device, wherein the output audio data is generated based on the modified version of the second input speech.

2. (Currently Amended) The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to extract from the first input audio data one or more prosodic features, linguistic features, or global speaker characteristics.

3. (Currently Amended) The speech processing system of claim 1, wherein the accent features comprise one or more pitch contours, other intonation patterns, or phoneme

pronunciations and the pitch contours comprise variations in pitch throughout the first input speech, the other intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent.

4. (Original) The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to apply a mel frequency cepstral coefficient (MFCC) analysis to extract a unique fingerprint of the voice of the second user, wherein the generated characteristics comprise the unique fingerprint.

5. (Original) The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to apply a speaker identity encoding technique to encode speaker-specific voice characteristics, wherein the generated characteristics comprise the speaker-specific voice characteristics.

6. (Original) The speech processing system of claim 1, wherein the one or more processors are further configured to execute the instructions to receive the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device.

7. (Currently Amended) A method for real-time accent mimicking, the method implemented by a speech processing system and comprising:

applying one or more trained machine learning models to first input audio data to extract accent features of first input speech associated with a first accent of a first user;

analyzing obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics comprise a unique fingerprint of the voice of the second user;

synthesizing a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features; and

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providing output audio data generated based on the modified version of the second input speech.

8. (Original) The method of claim 7, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent.

9. (Currently Amended) The method of claim 7, further comprising extracting from the first input audio data one or more prosodic features, linguistic features, or global speaker characteristics.

10. (Original) The method of claim 7, wherein the accent features comprise one or more pitch contours, intonation patterns, or phoneme pronunciations and the pitch contours comprise variations in pitch throughout the first input speech, the intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent.

11. (Currently Amended) The method of claim 7, further comprising applying a mel frequency cepstral coefficient (MFCC) analysis to extract ~~[[a]]~~ the unique fingerprint of the voice of the second user, ~~wherein the generated characteristics comprise the unique fingerprint.~~

12. (Original) The method of claim 7, further comprising applying a speaker identity encoding technique to encode speaker-specific voice characteristics, wherein the generated characteristics comprise the speaker-specific voice characteristics.

13. (Original) The method of claim 7, further comprising receiving the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device.

14. (Currently Amended) A non-transitory computer-readable medium comprising instructions that, when executed by at least one processor, cause the at least one processor to:

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apply one or more trained machine learning models to first input audio data obtained via a microphone to extract accent features of first input speech associated with a first accent of a first user;

analyze obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics comprise speaker-specific voice characteristics;

synthesize a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features; and

provide for output via an audio output device output audio data generated based on the modified version of the second input speech.

15. (Original) The non-transitory computer-readable medium of claim 14, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent.

16. (Currently Amended) The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to extract from the first input audio data one or more prosodic features, linguistic features, or global speaker characteristics.

17. (Original) The non-transitory computer-readable medium of claim 14, wherein the accent features comprise one or more pitch contours, intonation patterns, or phoneme pronunciations and the pitch contours comprise variations in pitch throughout the first input speech, the intonation patterns comprise the rise and fall of pitch at the ends of phrases or sentences, or the phoneme pronunciations comprise a unique production of phonemes in the first accent.

18. (Original) The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to apply a mel frequency cepstral coefficient (MFCC) analysis to extract a unique fingerprint of

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the voice of the second user, wherein the generated characteristics comprise the unique fingerprint.

19. (Currently Amended) The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to apply a speaker identity encoding technique to encode the speaker-specific voice characteristics, ~~wherein the generated characteristics comprise the speaker-specific voice characteristics.~~

20. (Original) The non-transitory computer-readable medium of claim 14, wherein the instructions, when executed by the at least one processor further causes the at least one processor to receive the second input audio data via one or more communication networks and from a user computing device that is remote from the speech processing system, wherein the second input audio data is captured at the user computing device.

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REMARKS

Applicant has amended claims 1-9, 7, 11, 14, 16, and 19, as set forth above. No new matter has been added by way of these amendments. In view of the above amendments and the following remarks, reconsideration of the pending Office action is respectfully requested.

Claim Rejections Under 35 U.S.C. §§ 102 and 103

The Office has rejected claims 1-3, 6-10, 13-17, and 20 under 35 U.S.C. § 102 as being anticipated by U.S. Patent Application Publication No. 2020/0193971 to Feinauer et al. (“Feinauer”). The Office also has rejected claims 4-5, 11-12 and 18-19 under 35 U.S.C. § 103 as being unpatentable over Feinauer in view of U.S. Patent Application Publication No. 2016/0275952 to Kashtan et al. (“Kashtan”). Applicant respectfully disagrees with these rejections, as explained in detail below.

Feinauer and Kashtan, alone or in combination, do not disclose or suggest “analyze obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics correspond to vocal traits that are distinct to the second user and comprise one or more of a voice quality or one or more phonetic patterns, prosodic features, articulation styles, or intonation patterns,” as recited by independent claim 1, “analyzing obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics comprise a unique fingerprint of the voice of the second user,” as recited by independent claim 7, or “analyze obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics comprise speaker-specific voice characteristics,” as recited by independent claim 14.

The Office has cited paragraphs [0041] and [0046] of Feinauer as disclosing analyzing obtained second input audio data associated with second input speech associated with a second

accent of a second user to generate characteristics specific to a natural voice of the second user. In paragraph [0041], Feinauer discloses:

[T]he accent and dialect modification system may include a first participant or user 200 on a first device 210 communicating via a communication channel with a second device 230 of a second participant or user 240 over a network 220, such as to facilitate or have an audio and/or video conversation between the first participant and the second participant....The computing device 210 can execute software implementing the accent and dialect modifier 318 (described further in FIG. 3). The accent and dialect modifier 318 can be software that can modify accents and/or dialects as described herein. (Emphasis added).

Feinauer further discloses in paragraph [0046]:

[T]he accent and dialect modifier 318 modifies the voice of the user 200 into and accent and/or dialect desired or targeted for participant 240, such as to cause a certain outcome or result of the call or conversation, for example, based on the context of the call. In one example, the system modifies the voice of user 200 into an accent/dialect more familiar to call participant 240 (such as modifying the voice from an American accent to an Australian accent). A user 200 has an accent and/or dialect represented by the unmodulated voice or waveform. The unmodulated voice or waveform can be received by computing device 210. Before or during the transmission of the waveform to or prior to or at time of receipt by communication device 230 via network 220, the unmodulated voice or waveform undergoes modification by the accent and dialect modifier 318 to modify the accent and/or dialect. The modified waveform can be transmitted via the communication network 220. The modulated voice or waveform can be received by communication device 230 which can then be communicated to, provided to or played to the participant 240. (Emphasis added).

As illustrated above, Feinauer discloses that first and second users can communicate over an audio network with the computing device associated with the first user executing an accent and dialect modifier that modifies an accent or dialect of audio received from the second user, such as to modify the voice of the second user into an accent or dialect more familiar to the first user. Thus, Feinauer explains that an unmodulated voice or waveform originating with a second user is modified based on a selected accent or dialect before being output by a computing device of a first user.

However, Feinauer makes no mention or suggestion of generating any characteristics specific to a natural voice of the second user associated with the unmodulated voice or waveform that undergoes the modification to a different accent. In fact, Feinauer does not disclose or suggest analyzing the unmodulated voice or waveform to generate or extract anything, let alone characteristics specific to a natural voice of the associated user, and instead merely discloses that the he unmodulated voice or waveform undergoes modification to modify the accent or dialect.

Applicant has amended the independent claims to make clear that generated characteristics alternately correspond to vocal traits that are distinct to the second user, comprising a unique fingerprint, or comprise speaker-specific voice characteristics, for example. Since Feinauer does not disclose or suggest generating any characteristics specific to a natural voice of a user, Kashtan cannot address the deficiencies of Feinauer. In other words, even assuming, *arguendo*, Kashtan discloses a unique fingerprint or speaker-specific voice characteristics, for example, the combination of Feinauer and Kashtan still fails to disclose the above-identified claim limitations because there is no teaching of generating such characteristics as required by the above-identified claim limitations or modifying any input audio data based on such characteristics, as will now be explained.

Feinauer and Kashtan, alone or in combination, also do not disclose or suggest “synthesize a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent,” as recited by independent claim 1, “synthesizing a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features,” as recited by independent claim 7, or “synthesize a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features,” as recited by independent claim 14.

The Office has asserted that Feinauer discloses synthesizing a modified version of the second input speech based on the generated characteristics and the extracted accent features in

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paragraphs [0005]-[0007] and [0054]. As explained above, Feinauer does not generate the claimed characteristics and therefore cannot synthesizing a modified version of the second input speech based on such characteristics. In paragraphs [0005], Feinauer discloses that “[t]he present disclosure discusses a solution, which, in some implementations, can modify an accent and/or dialect based on a machine learning identified best practice target accent and/or dialect.” Similarly, Feinauer discloses in paragraph [00007] “causing, by the device responsive to the determination, modifications of at least a portion of voice communications of the first participant to use the target dialect and the target accent.” Additionally, Feinauer discloses in paragraph [0054]:

[T]he accent and dialect modifier 318 can receive a data packet and identify that the data packet has a first accent and a first dialect. Based, on information about the context 402, the accent and dialect modifier 318 can access the pairing database 340 to select or determine an optimal accent and/or dialect to convert none, some or all of the audio content of the data packet to the selected accent and/or dialect. (Emphasis added).

Thus, as illustrated above, Feinauer teaches identifying or selecting a best practice target accent and/or dialect and modifying none, some, or all of the audio content in received data packets based on the identified or selected accent and/or dialect. Nowhere in the above-cited paragraphs, or elsewhere in Feinauer’s disclosure, does Feinauer teach or suggest synthesizing input speech or input audio data based on generated characteristics specific to a natural voice of a user.

To the extent the Office asserts that Feinauer’s disclosure that none, some, or all of the audio content can be converted to a selected accent discloses the claimed synthesizing of a modified version of the second input speech, because a natural voice of a second user is preserved in the unconverted audio content while the accent of a user is mimicked in the converted audio content, Feinauer’s teachings fail to disclose or suggest any synthesis that is based on characteristics generated from an analysis of input data originating with the second user. In other words, the resulting audio content in Feinauer is not modified based on characteristics corresponding to vocal traits that are distinct to the second user, but is instead only modified based on a selected accent (of the first user) and to convert the audio data to the selected accent.

The remainder of the audio content (i.e., the unconverted audio content) is simply retained in the resulting audio content in Feinauer. Thus, there is no modification of that unconverted portion of the audio content, let alone based on any generated characteristics corresponding to vocal traits that are distinct to a second user. Since Feinauer does not modify the input audio content based on characteristics corresponding to vocal traits that are distinct to a second user, there would be no reason to generate such characteristics, and Feinauer, in fact, does not generate such characteristics, as explained above.

Moreover, Applicant has amended the independent claims to make clear that the same second audio input data is modified based on the generated characteristics and the extracted accent features. Feinauer provides no disclosure or suggestion indicating that any aspects of the natural voice of the second user are preserved in the portion of the audio content that is converted based on the selected accent. Kashtan also does not disclose or suggest the above-identified claim limitations.

In contrast to the cited prior art references, the above-identified claim limitations require synthesizing a modified version of the second input speech based on the generated characteristics and the extracted accent features. By way of example only, the above-identified application discloses in paragraph [0051] that “the speech processing system 100 modifies the second user’s second input speech in real-time based on the accent features extracted in step 406 from the first input speech and the characteristics specific to the natural voice of the second user generated in step 408.” This claimed technology addresses the challenge of improving communication clarity via accent conversion while accurately capturing the dynamic features of spontaneous speech.

In view of the foregoing amendments and remarks, the Office is respectfully requested to reconsider and withdraw the rejection of independent claims 1, 7, and 14. Since claims 2-6, 8-13, and 15-20 depend from and contain the limitations of claims 1, 8, and 15, respectively, they are distinguishable over the cited references and are patentable at least in the same manner as claims 1, 7, and 14.

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In view of all of the foregoing, Applicant submits that this case is in condition for allowance and such allowance is earnestly solicited. The Office is encouraged to contact the undersigned to discuss any deficiencies the Office believes prevent allowability of the above-identified application.

Date: June 10, 2025

Respectfully submitted,

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UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 06/10/2025 05:15:21 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Nicholas Gallo
PATENT CENTER #	70825019	FILING DATE	01/17/2025
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_316032439. 1_.pdf	12	-	154 KB
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_31603243 9.1_-A....pdf (1-1)	1	Amendment/Request for Reconsideration-After Non- Final Rejection	92 KB
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_31603243 9.1_-CLM.pdf (2-6)	5	Claims	103 KB
Amendment in Response to 19-MAR-2025 NFOA (7-12)	6	Applicant Arguments/Remarks Made in an Amendment	130 KB

264248.000171_31603243
9.1_-REM.pdf

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_316032439.1_.pdf	2BCA79D80ACDB3987F991336D5F2DE0C066E7D1F178D81BA EB14E09644E814FE8A90369FF9A7E101BE060FB9E97990343F A3DAF61013535D03035B80A6BCA77E
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_316032439.1_-A....pdf	339C587572001DFE888FC6FC8F3F7F5E66924B29B7CEC6E9E 276EFDDE35C657FEDEF08466E3AB688EAB9DDF6B8C92CEB B4D55FED0117E8E267C4B8C694E48001
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_316032439.1_-CLM.pdf	3064F013E2FBF78E4340676CAB295940FB642E21A1F1F65040 A2238001A34556B50AFA545A01B65128275A0FDA89B40FDBE 6CC6F2B99272CB0EA98018657D6D6
Amendment in Response to 19-MAR-2025 NFOA 264248.000171_316032439.1_-REM.pdf	D083BB0F7F9D19E793E26DD874720F4496CC33D6A59D0CD8 4C841F74006D6B19FDE30EBB5EEEE4650DE11C1082CDDA9A BE3A66E78C22E747A328A46E437EAE40

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Notice of References Cited	Application/Control No. 19/027,799		Applicant(s)/Patent Under Reexamination JHA et al.	
	Examiner JAKIEDA R JACKSON		Art Unit 2657	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9129602-B1	2015-09-08	Shepard; Isaac Jeremy	G10L21/013	1/1
*	B	US-9715873-B2	2017-07-25	Graham; Derek	G10L13/08	1/1
*	C	US-20160140952-A1	2016-05-19	Graham; Derek	G10L13/033	704/260
*	D	US-12039975-B2	2024-07-16	Krishnan; Prakash	G10L15/20	1/1
*	E	US-20220093094-A1	2022-03-24	Krishnan; Prakash	G06V10/40	1/1
*	F	US-20040225499-A1	2004-11-11	Wang, Sandy Chai-Jen	G10L15/26	704/E15.044
*	G	US-20240221719-A1	2024-07-04	Kothari; Tanay	G10L15/22	1/1
*	H	US-11600284-B2	2023-03-07	Pearson; Steve	G06N3/08	1/1
*	I	US-20230335123-A1	2023-10-19	Liu; Ju Ling	G10L15/04	1/1
*	J	US-20210217431-A1	2021-07-15	PEARSON; Steve	G10L21/013	1/1
*	K	US-20050234727-A1	2005-10-20	Chiu, Leo	G10L15/26	704/E15.044
*	L	US-20250118286-A1	2025-04-10	Badlani; Rohan	G10L13/033	1/1
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 11-2023)

Notice of References Cited

Part of Paper No. 20250622

<i>Search Notes</i> 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

CPC - Searched*		
Symbol	Date	Examiner
G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) - text limited	03/13/2025	JJ
G06F(40/58 2203/011) - text limited	03/13/2025	JJ

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
PE2E Search	03/13/2025	JJ
IP.com	03/13/2025	JJ
Reviewed for DP	03/13/2025	JJ
Inventor Search	03/13/2025	JJ
Reviewed for 101	03/13/2025	JJ
PE2E Search	06/22/2025	JJ
IP.com	06/22/2025	JJ

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<i>Search Notes</i> 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G10L	15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013	03/13/2025	JJ
G06F	40/58 2203/011	03/13/2025	JJ

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Issue Classification 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

CPC						
Symbol					Type	Version
G10L		13	/	027	F	2013-01-01
G10L	/	13	/	08	I	2013-01-01

CPC Combination Sets					
Symbol			Type	Set	Ranking

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/JAKIEDA R JACKSON/ Primary Examiner, Art Unit 2657	22 June 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

U.S. Patent and Trademark Office

Part of Paper No.: 20250622

Issue Classification 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G10L		15	26
NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/JAKIEDA R JACKSON/ Primary Examiner, Art Unit 2657	22 June 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

Issue Classification 	Application/Control No. 19/027,799	Applicant(s)/Patent Under Reexamination JHA et al.
	Examiner JAKIEDA R JACKSON	Art Unit 2657

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11		20										
	3		12												
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	7		16												
	8		17												
	9		18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/JAKIEDA R JACKSON/ Primary Examiner, Art Unit 2657 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 4



Search History

Report Run Date: 2025-06-23 UTC

Searches: 5

Markers: 0

Search #	Timestamp	Results	Page
1	2025-06-18 14:32 UTC	7,696,202	3
2	2025-06-18 14:45 UTC	4,752,035	3
3	2025-06-23 00:18 UTC	38,479,825	4
4	2025-06-23 00:45 UTC	35,879,458	4
5	2025-06-23 00:52 UTC	35,879,458	4



Content: Patent Publications (169)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications

1 2025-06-18 14:32 UTC | 7,696,202 results from

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

voice that sounds like the first user but mimics the second users accent

Concept Modifiers: None

Filters: None

2 2025-06-18 14:45 UTC | 4,752,035 results from

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

voice that sounds like the first user but mimics the second users accent for two people having a conversation

Concept Modifiers: None

Filters: None

3 2025-06-23 00:18 UTC | 38,479,825 results from 

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

analyze obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics correspond to vocal traits that are distinct to the second user and comprise one or more of a voice quality or one or more phonetic patterns, prosodic features, articulation styles, or intonation patterns and synthesize a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent

Concept Modifiers: None

Filters: None

4 2025-06-23 00:45 UTC | 35,879,458 results from 

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

when two people are conversing, keep the voice sound of the speakers but change the accent

Concept Modifiers: None

Filters: None

5 2025-06-23 00:52 UTC | 35,879,458 results from 

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Same as Search 4

Concept Modifiers: None

Filters: None

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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L2	2470	(dynamic\$4 real\$3tim\$4) SAME accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 11:02 AM
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		"20200004820" "20140272908" "20160379643").did. OR ("17036464" "15406747" "16913139").pn.					
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		pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4)					
L13	11	((("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.) AND second\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:09 PM
L14	2	((("20080269958" "20180122361" "20120137367" "20110172873" "20110193726" "20180358009" "20180203847" "20140317030" "20200004820" "20140272908" "20160379643" "20220103979").did. OR ("11741965").pn.) AND second\$4 near2 (speaker\$4 user\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:09 PM
L15	1	"15215215".pn. OR "20100042410".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:17 PM
L16	1	"15215251".pn. OR "20100042410".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:17 PM
L17	1	"20080205629".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:18 PM
L18	1	"20080205629".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:18 PM
L19	1	"20170169814".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:22 PM
L20	1	"20160358600".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:23 PM
L21	1	"11120219".pn. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:24 PM
L22	35	design\$4 near2 dialog\$6 near2 languag\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:25 PM
L23	4	design\$4 near2 dialog\$6 near2 languag\$4 AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:35 PM

L24	38	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (accent\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:36 PM
L25	291	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:37 PM
L26	137398	G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:38 PM
L27	99	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:39 PM
L28	85	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 12:39 PM
L29	50	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:15 PM
L30	44	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:16 PM

		(customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4)					
L31	13	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (finger\$4print\$4 audio\$4print\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:18 PM
L32	8	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (MFCC OR (mel near2 frequenc\$4))	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:18 PM
L33	5	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:19 PM

		linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (MFCC OR (mel near2 frequenc\$4)) AND (speaker\$4) near2 (recogn\$6 identi\$6 authentikat\$4)					
L34	12	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) SAME (customi\$6 modif\$7 alter\$7 morph\$6) near2 (pronunciat\$5 pronounc\$4 inflection\$4 cadenc\$4 accent\$4 tone\$4) AND accent\$4 AND (prosodic\$4 linguistic\$4 global\$4) AND (intonation\$4 pitch\$4 contour\$4 phoneme\$4 phonetic\$4) AND (speaker\$4) near2 (recogn\$6 identi\$6 authentikat\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:20 PM
L35	16	((US-20230267941-A1 OR US-20200004820- A1 OR US- 20180203847-A1 OR US-20080269958-A1 OR US-20080205629- A1 OR US- 20170169814-A1 OR US-20240267572-A1 OR US-20240161764- A1 OR US- 20240146560-A1 OR US-20220131973-A1 OR US-20210098013- A1 OR US- 20200193971-A1 OR US-20140187210- A1).did. AND PGPB.dbnm.) OR ((US- 11741965-B1 OR US- 11120219-B2 OR US- 11134217-B1).did. AND USPT.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/13 01:25 PM
L36	1984516	(G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:28 PM

		2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas.					
L37	2	((((US-20230267941-A1 OR US-20200004820-A1 OR US-20180203847-A1 OR US-20080269958-A1 OR US-20080205629-A1 OR US-20170169814-A1 OR US-20240267572-A1 OR US-20240161764-A1 OR US-20240146560-A1 OR US-20220131973-A1 OR US-20210098013-A1 OR US-20200193971-A1 OR US-20140187210-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1).did. AND USPT.dbnm.)) AND (finger\$4print\$4 audio\$4print\$4)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/13 01:29 PM
L38	1	((((US-20230267941-A1 OR US-20200004820-A1 OR US-20180203847-A1 OR US-20080269958-A1 OR US-20080205629-A1 OR US-20170169814-A1 OR US-20240267572-A1 OR US-20240161764-A1 OR US-20240146560-A1 OR US-20220131973-A1 OR US-20210098013-A1 OR US-20200193971-A1 OR US-20140187210-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1).did. AND USPT.dbnm.)) AND (finger\$4print\$4 audio\$4print\$4) AND (speaker\$4 user\$3) near2 (recogni\$6 identif\$6 authentic\$6)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/13 01:29 PM

L39	13097	(MFCC OR (mel near2 frequenc\$4))	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:31 PM
L40	10959	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:31 PM
L41	1964	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas.	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:31 PM
L42	1495	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) AND (speaker\$4 user\$4) near2 (recogn\$6 identif\$6)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:32 PM
L43	540	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) SAME (speaker\$4 user\$4) near2 (recogn\$6 identif\$6)	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:32 PM
L44	153	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:32 PM

		15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) SAME (speaker\$4 user\$4) near2 (recogn\$6 identif\$6) AND accent\$4					
L45	52	(MFCC OR (mel near2 frequenc\$4)) AND (G10L(15/26 25/63 13/00 13/033 13/0335 15/02 13/027 13/08 15/005 15/22 21/003 2015/025 13/086 2021/0135 21/013) OR G06F(40/58 2203/011)).cpcl,clas. AND (finger\$4print\$4) SAME (speaker\$4 user\$4) near2 (recogn\$6 identif\$6) AND accent\$4 NOT amazon	(US-PGPUB; USPAT)	OR	ON	ON	2025/03/13 01:35 PM
L46	20	((US-20230267941-A1 OR US-20200004820- A1 OR US- 20180203847-A1 OR US-20080269958-A1 OR US-20080205629- A1 OR US- 20170169814-A1 OR US-20240267572-A1 OR US-20240161764- A1 OR US- 20240146560-A1 OR US-20220131973-A1 OR US-20210098013- A1 OR US- 20200193971-A1 OR US-20140187210-A1 OR US-20180146370- A1 OR US- 20160275952-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1 OR US-12243511-B1 OR US-12087270-B1).did. AND USPT.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/14 10:52 AM
L47	0	((US-20230267941-A1 OR US-20200004820- A1 OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2025/03/14 10:53 AM

		20180203847-A1 OR US-20080269958-A1 OR US-20080205629- A1 OR US- 20170169814-A1 OR US-20240267572-A1 OR US-20240161764- A1 OR US- 20240146560-A1 OR US-20220131973-A1 OR US-20210098013- A1 OR US- 20200193971-A1 OR US-20140187210-A1 OR US-20180146370- A1 OR US- 20160275952-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1 OR US-12243511-B1 OR US-12087270-B1).did. AND USPT.dbnm.)) AND transliterat\$6	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L48	2	((((US-20230267941-A1 OR US-20200004820- A1 OR US- 20180203847-A1 OR US-20080269958-A1 OR US-20080205629- A1 OR US- 20170169814-A1 OR US-20240267572-A1 OR US-20240161764- A1 OR US- 20240146560-A1 OR US-20220131973-A1 OR US-20210098013- A1 OR US- 20200193971-A1 OR US-20140187210-A1 OR US-20180146370- A1 OR US- 20160275952-A1).did. AND PGPB.dbnm.) OR ((US-11741965-B1 OR US-11120219-B2 OR US-11134217-B1 OR US-12243511-B1 OR US-12087270-B1).did. AND USPT.dbnm.)) AND translat\$5 WITH (pronounc\$4 pronunciat\$6)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/03/14 10:53 AM
L49	1	"20090112590".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:34 AM

L50	1	"20090112590".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:34 AM
L51	1	"20090112590".did. AND accent\$4 AND (speech\$4 voic\$4 sound\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:34 AM
L52	1	"20090112590".did. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthes\$6	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:35 AM
L53	0	"9129602".pn. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthes\$6	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:36 AM
L54	1	"9129602".pn. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:36 AM
L55	1	"9129602".pn. AND accent\$4 AND (speech\$4 voic\$4 sound\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:36 AM
L56	1	"9715873".pn. AND accent\$4 AND (speech\$4 voic\$4 sound\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:39 AM
L57	1	"9715873".pn. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthe\$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:39 AM
L58	1	"20160140952".did. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthe\$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:40 AM
L59	1	"20240428775".did. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthe\$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:41 AM
L60	1	"10614826".pn. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthe\$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:42 AM
L61	1	"12039975".pn. AND accent\$4 AND (speech\$4 voic\$4 sound\$4) AND synthe\$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:47 AM
L62	1	"20220093094".did. AND accent\$4 AND	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 10:49 AM

		(speech\$4 voic\$4 sound\$4) AND synthe\$5					
L63	2	("20050187763" "20170213549").did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 11:03 AM
L64	0	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) WITH (speech\$4 voic\$4 audio\$4) near2 synthes\$6 SAME mimic\$4 near2 (pitch\$4 accent\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 01:31 PM
L65	6044	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) WITH (speech\$4 voic\$4 audio\$4) near2 synthes\$6	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 01:31 PM
L66	0	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) WITH (speech\$4 voic\$4 audio\$4) near2 synthes\$6 SAME mimic\$4 near2 (pitch\$4 accent\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 01:32 PM
L67	11	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) WITH (speech\$4 voic\$4 audio\$4) near2 synthes\$6 AND mimic\$4 near2 (pitch\$4 accent\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 01:32 PM
L68	20	(conversation\$4 dialog\$4 meeting\$4 lectur\$4) AND (speech\$4 voic\$4 audio\$4) near2 synthes\$6 AND mimic\$4 near2 (pitch\$4 accent\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 02:20 PM
L69	9	L68 NOT L67	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 02:20 PM
L70	3	(speech\$4 voic\$4 audio\$4) near2 synthes\$6 AND mimic\$4 near2 (pitch\$4 accent\$4) AND (first\$4 sourc\$4) near2 user\$4 AND (second\$4 target\$4) near2 user\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18 02:55 PM
L71	20	mimic\$4 near2 (pitch\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/18

		accent\$4) AND (first\$4 sourc\$4) near2 user\$4 AND (second\$4 target\$4) near2 user\$4					03:03 PM
L72	508	(morph\$4 mimic\$4 customi\$7 personali\$7) near2 (accent\$4 dialect\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 07:25 PM
L73	7	(morph\$4 mimic\$4 customi\$7 personali\$7) near2 (accent\$4 dialect\$4) AND end\$4to\$3end\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 07:25 PM
L74	1	(morph\$4 mimic\$4 customi\$7 personali\$7) near2 (accent\$4 dialect\$4) SAME natural\$4 near2 voic\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 07:58 PM
L75	1	(morph\$4 mimic\$4 customi\$7 personali\$7) near2 (accent\$4 dialect\$4) SAME (normal\$4 natural\$4) near2 (voic\$4 sound\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 07:58 PM
L76	44	(morph\$4 mimic\$4 customi\$7 personali\$7) near2 (accent\$4 dialect\$4) AND (normal\$4 natural\$4) near2 (voic\$4 sound\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 07:59 PM
L77	1	"20230043916".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:18 PM
L78	134	preserv\$4 near4 (normal\$4 natural\$4) near2 (voic\$4 sound\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:32 PM
L79	3	preserv\$4 near4 (normal\$4 natural\$4) near2 (voic\$4 sound\$4) SAME (var\$4 chang\$4 modif\$6 alter\$4) near4 (accent\$4 pitch\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:33 PM
L80	1	"20240274122".did.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:34 PM
L81	1	"20240274122".did. AND accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:42 PM
L82	0	(conversation\$4 dialog\$4 lectur\$4 meeting\$4) near2 (preserv\$4 keep\$4) near2 (voic\$4 sound\$4) SAME accent\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:47 PM
L83	3	(conversation\$4 dialog\$4 lectur\$4	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/22 08:48 PM

		meeting\$4) SAME (preserv\$4 keep\$4) near2 (voic\$4 sound\$4) SAME accent\$4					
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PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



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NOTICE OF ALLOWANCE AND FEE(S) DUE

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EXAMINER

JACKSON, JAKIEDA R

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DATE MAILED: 07/01/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023

TITLE OF INVENTION: SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$516	\$0.00	\$0.00	\$516	10/01/2025

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

11951 7590 07/01/2025
Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023

TITLE OF INVENTION: SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$516	\$0.00	\$0.00	\$516	10/01/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
JACKSON, JAKIEDA R	2657	704-259000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023
11951	7590	07/01/2025	EXAMINER	
Troutman Pepper Locke LLP (Rochester)			JACKSON, JAKIEDA R	
70 Linden Oaks			ART UNIT	
Suite 210			PAPER NUMBER	
Rochester, NY 14625			2657	
DATE MAILED: 07/01/2025				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).

<https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>

Routine uses of the information in this record may include disclosure to:

- 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
- 2) a federal, state, local, or international agency, in response to its request;
- 3) a contractor of the USPTO having need for the information in order to perform a contract;
- 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
- 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
- 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
- 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
- 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
- 9) the Office of Personnel Management (OPM) for personnel research purposes; and
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 19/027,799	Applicant(s) JHA et al.	
	Examiner JAKIEDA R JACKSON	Art Unit 2657	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the claims filed 6/10/2025.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-20. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/JAKIEDA R JACKSON/ Primary Examiner, Art Unit 2657	
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DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

Claims 1-20 are allowed.

The following is a statement of reasons for allowance:

As for independent claims 1, 7 and 14, they recite a system, method and medium, hereinafter referenced as a method for real-time accent mimicking. Prior art of record discloses a similar method, but fails to teach the claims in combination with analyzing obtained second input audio data associated with second input speech associated with a second accent of a second user to generate characteristics specific to a natural voice of the second user, wherein the generated characteristics correspond to vocal traits that are distinct to the second user and comprise one or more of a voice quality or one or more phonetic patterns, prosodic features, articulation styles, or intonation patterns and synthesizing a modified version of the second input speech by modifying the obtained second input audio data based on the generated characteristics and the extracted accent features, wherein the modified version of the second input speech preserves aspects of the natural voice of the second user and mimics the first accent.

Dependent claims 2-6, 8-13 and 15-20 are allowed because they further limit their parent claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. This information has been detailed in the PTO 892 attached (Notice of References Cited).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAKIEDA R JACKSON whose telephone number is (571)272-7619. The examiner can normally be reached Mon - Fri 6:30a-2:30p.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Washburn can be reached at 571.272.5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197

Application/Control Number: 19/027,799
Art Unit: 2657

Page 4

(toll-free). If you would like assistance from a USPTO Customer Service

Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAKIEDA R JACKSON/
Primary Examiner, Art Unit 2657

Doc Code: R48.REQ

Document Description: Request under Rule 48 correcting inventorship

PTO/AIA/40 (11-23)

Approved for use through 11/30/2027. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**REQUEST FOR CORRECTION IN A
PATENT APPLICATION RELATING TO
INVENTORSHIP OR AN INVENTOR
NAME, OR ORDER OF NAMES, OTHER
THAN IN A REISSUE APPLICATION (37
CFR 1.48)**

Application Number	19/027,799
Filing Date	2025-01-17
First Named Inventor	JHA, Ankita
Art Unit	2657
Examiner Name	JAKIEDA R JACKSON
Practitioner Docket Number	264248.000171

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicant hereby requests that the inventorship be corrected or changed, or that the name of the inventor or a joint inventor, or the order of the names of joint inventors, be changed, in the above-identified application. Note: 37 CFR 1.48 applies to any request to correct inventorship filed on or after September 16, 2012, regardless of the application filing date. Do not submit this form after payment of the issue fee or if the application has been patented. See 37 CFR 1.324 for correction of inventorship in a patent.

Please check the applicable box(es) below.

For a nonprovisional application:

☒ 1. This request is to correct or change the inventorship in a **nonprovisional** application (under 37 CFR 1.48(a)) and includes:

☒ An application data sheet (ADS) in accordance with 37 CFR 1.76(c) with the corrected or updated information shown with markings (e.g., underlining for insertions, strikethrough for deletions). See the Manual of Patent Examining Procedure (MPEP) section 601.05(a) for information about filing an ADS in an application filed on/after September 16, 2012. For information about filing a Supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b).

☒ The processing fee set forth in 37 CFR 1.17(i).

\$ 60.00

☒ An inventor is being added. An inventor's oath or declaration by any actual inventor who has not yet executed an oath or declaration is required (see 37 CFR 1.48(b)). See MPEP 602.01(a) for information about an inventor's oath or declaration for an application filed on/after September 16, 2012 (e.g., form PTO/AIA/01). For information about an inventor's oath or declaration for an application filed before September 16, 2012 (e.g., form PTO/SB/01), see MPEP 602.01(b).

☒ This request is being filed after the first Office action on the merits has been given or mailed (see 37 CFR 1.48(c) and 1.17(d)). Check one of the following:

☐ This request to correct or change the inventorship is due solely to the cancellation of claims in the application.

OR

☒ The fee set forth in 37 CFR 1.17(d) is due (in addition to the fee set forth in 37 CFR 1.17(i)).

\$ 276.00

[Page 1 of 2]

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 45 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. If filing this completed form by mail, send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**REQUEST FOR CORRECTION IN A PATENT APPLICATION RELATING TO INVENTORSHIP OR AN
INVENTOR NAME, OR ORDER OF NAMES, OTHER THAN IN A REISSUE APPLICATION
(37 CFR 1.48)**

- ☐ 2. This request is to correct or update the name of the inventor or a joint inventor, or the order of names of joint inventors, in a **nonprovisional** application (under 37 CFR 1.48(f)) and includes:
- ☐ An application data sheet in accordance with 37 CFR 1.76(c) identifying the complete inventive entity, including the corrected or updated name of the inventor, or the new order of names shown with markings (e.g., underlining for insertions, strikethrough for deletions). See the MPEP 601.05(a) for information about filing an ADS in an application filed on/after September 16, 2012. For information about filing a Supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b).
- ☐ The processing fee set forth in 37 CFR 1.17(i). \$ _____

For a provisional application:

- ☐ This request is to change or correct the inventorship, or correct or update the name of the inventor or a joint inventor, in a **provisional** application (under 37 CFR 1.48(d)) and includes:
- ☐ Attached hereto is a document that is signed by a party set forth in 37 CFR 1.33(b) and identifies each inventor by his or her legal name, in the preferred order. Note: the document may be an application data sheet in accordance with 37 CFR 1.76(c) that identifies the changes with markings (underlining for insertions, strikethrough for deletions).
- ☐ The processing fee set forth in 37 CFR 1.17(q). \$ _____

Fee Payment Information:

- ☒ Applicant asserts small entity status. See 37 CFR 1.27.
- ☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously
- ☐ A check in the amount of the fee is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 500436.
- ☒ Payment made via USPTO patent electronic filing system.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

- ☐ Applicant* ☒ attorney or agent of record ☐ attorney or agent acting under 37 CFR 1.34
- Registration number 60,758 Registration number _____

Signature /Nicholas J. Gallo/Typed or printed name Nicholas J. GalloDate August 1, 2025

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. *Juristic entities must be represented by a patent practitioner (See 37 CFR 1.31, applicable to any paper filed on or after September 16, 2012 that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below**.

☒ ** Total of 1 forms are submitted.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013), <https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>.

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Ankita		JHA	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Bangalore	Country of Residence ⁱ	IN	
Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	
Inventor 2 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Lukas		PFEIFENBERGER	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Salzburg	Country of Residence ⁱ	AT	
Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	
Inventor 3 Remove				
Legal Name				

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Prefix	Given Name	Middle Name	Family Name	Suffix
	Piotr		DURA	

Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service

City	Warsaw	Country of Residence ⁱ	PL
------	--------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Inventor 4

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	David		BRAUDE	

Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service

City	Edinburgh	Country of Residence ⁱ	GB
------	-----------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Inventor 5

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alvaro		ESCUDERO	

Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service

City	San Sebastian de los Reyes	Country of Residence ⁱ	ES
------	----------------------------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Inventor 6 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Shawn		ZHANG	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence US
Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	
Inventor 7 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Maxim		SEREBRYAKOV	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence US
Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	
Inventor 8 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Sharath	Kashava	NARAYANA	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Palo Alto	Country of Residence		CA
Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	11951	
Email Address		Add Email Remove Email

Application Information:

Title of the Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Attorney Docket Number	264248.000171	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☒ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	11951		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	63678180	2024-08-01
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Access Code ¹ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. ☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor	
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Sanas.ai Inc.		
Mailing Address Information For Applicant:			
Address 1	437 Lytton Avenue, Suite 200		
Address 2			
City	Palo Alto	State/Province	CA
Country	US	Postal Code	94301
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Nicholas J. Gallo/		Date (YYYY-MM-DD)	~~2025-04-17~~ 2025-08-01
First Name	Nicholas J.	Last Name	Gallo	Registration Number 60,758
Additional Signature may be generated within this form by selecting the Add button.				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the international Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 08/03/2025 07:36:09 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	71659619	AUTHORIZED BY	Nicholas Gallo
CUSTOMER #	11951	FILING DATE	01/17/2025
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Ankita JHA

Payment Information

PAYMENT METHOD DA / 500436	PAYMENT TRANSACTION ID E202583J37346200	PAYMENT AUTHORIZED BY Mary Frances Heeks
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FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2819	CORRECTION OF INVENTORSHIP AFTER FIRST ACTION ON MERITS	276.00	1	276.00
2830	PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS	60.00	1	60.00
TOTAL AMOUNT:				\$336.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>19/027,799</u> filed on <u>17 January 2025</u> The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: <u>Sharath Kashava NARAYANA</u> Date (Optional): _____ Signed by: _____ Signature: <u>Sharath Kashava</u>	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 minute per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PGR2026-00033

Krisp Technologies EX1002 Page 150

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). <https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 08/03/2025 07:36:09 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	71659619	FILING DATE	01/17/2025
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20250801_REQUEST_COR RECTION_INVENTORSHIP_ 264248_000171.pdf	3	Request under Rule 48 correcting inventorship	270 KB
20250801_REVISED_ADS_2 64248_000171.pdf	10	Application Data Sheet	187 KB
Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
20250801_Signed_Declarati on_NARAYANA_264248_00 0171.pdf	2	Oath or Declaration filed	288 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20250801_REQUEST_CORRECTION_INVENTORSHIP_264248_000171.pdf	BF442045CB7F23F404A7AD54944E564C8034A317F12D84039C88D2CDC06C3D7F764727D086A196A3D3591F92B31EEBA6A5D11567A741519A424F246773E8E838
20250801_REVISIED_ADS_264248_000171.pdf	C882DF276FB4654F19CD298D15A59A9E2601833D0979F59C081EC938AC17E82B478B7B96AF277E392E82E4D61886516F49D4CE489394299F6E2EE0F9D85F28C6
20250801_Signed_Declaration_NARAYANA_264248_000171.pdf	0BB8BBED4EC5F91128B966C91F920CD5FE2CFAE159846C90F71B11AE62562DC36569B0175D1E5EBE4A3FFB451227FB784B6CD9435E0F8DA366B027414CEDDB9D

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
19/027,799	01/17/2025	2657	664	264248.000171	20	3

CONFIRMATION NO. 8023

UPDATED FILING RECEIPT



0000000092564383

11951

Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

Date Mailed: 08/06/2025

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Ankita JHA, Bangalore, INDIA;
Lukas Pfeifenberger, Salzburg, AUSTRIA;
Piotr Dura, Warsaw, POLAND;
David Braude, Edinburgh, UNITED KINGDOM;
Alvaro Escudero, San Sebastian de los Reyes, SPAIN;
Shawn Zhang, Palo Alto, CA;
Maxim Serebryakov, Palo Alto, CA;
Sharath Kashava NARAYANA, Palo Alto, CANADA;

Applicant(s)

Sanas.ai Inc., Palo Alto, CA;

Power of Attorney: The patent practitioners associated with Customer Number 11951

Domestic Applications for which benefit is claimed

This appln claims benefit of 63/678,180 08/01/2024

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - **None.**
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 02/10/2025

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 19/027,799**

Projected Publication Date: Not Applicable.

Non-Publication Request: No

Early Publication Request: Yes

**** SMALL ENTITY ****

Title

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Preliminary Class

704

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative,

page 2 of 4

this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
19/027,799	01/17/2025	Ankita JHA	264248.000171

CONFIRMATION NO. 8023

11951
Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

**37 CFR 1.48 ACKNOWLEDGEMENT
LETTER**



OC000000092564384

Date Mailed: 08/06/2025

NOTICE OF ACCEPTANCE OF REQUEST UNDER 37 CFR 1.48(a)

This is in response to the applicant's request under 37 CFR 1.48(a) submitted on 08/03/2025.

The request under 37 CFR 1.48(a) to correct the inventorship, to correct or update the name of an inventor, or to correct the order of names of joint inventors is accepted.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/sstephanos/

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Ankita		JHA		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Bangalore	Country of Residenceⁱ	IN		
Mailing Address of Inventor:					
Address 1	c/o Sanas.ai Inc.				
Address 2	437 Lytton Avenue, Suite 200				
City	Palo Alto	State/Province	CA		
Postal Code	94301	Countryⁱ	US		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Lukas		PFEIFENBERGER		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Salzburg	Country of Residenceⁱ	AT		
Mailing Address of Inventor:					
Address 1	c/o Sanas.ai Inc.				
Address 2	437 Lytton Avenue, Suite 200				
City	Palo Alto	State/Province	CA		
Postal Code	94301	Countryⁱ	US		
Inventor 3					Remove
Legal Name					

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Prefix	Given Name	Middle Name	Family Name	Suffix
	Piotr		DURA	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				

City	Warsaw	Country of Residence ⁱ	PL
------	--------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Inventor 4

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	David		BRAUDE	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				

City	Edinburgh	Country of Residence ⁱ	GB
------	-----------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Inventor 5

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alvaro		ESCUDERO	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				

City	San Sebastian de los Reyes	Country of Residence ⁱ	ES
------	----------------------------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Inventor 6 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Shawn		ZHANG	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence ⁱ
US				

Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	

Inventor 7 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Maxim		SEREBRYAKOV	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence ⁱ
US				

Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country ⁱ	US	

Inventor 8 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	<u>Sharath</u>	<u>Kashava</u>	<u>NARAYANA</u>	
Residence Information (Select One) ☒ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	<u>Palo Alto</u>	Country of Residence ⁱ	<u>CA</u> US	
State/Province CA				

Mailing Address of Inventor:				
Address 1		<u>c/o Sanas.ai Inc.</u>		
Address 2		<u>437 Lytton Avenue, Suite 200</u>		
City	<u>Palo Alto</u>	State/Province	<u>CA</u>	
Postal Code	<u>94301</u>	Country ⁱ	<u>US</u>	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	11951		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Attorney Docket Number	264248.000171	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☒ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	11951		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	63678180	2024-08-01
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Remove
			Access Code ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. ☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee		☐ Legal Representative under 35 U.S.C. 117	
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Sanas.ai Inc.		
Mailing Address Information For Applicant:			
Address 1	437 Lytton Avenue, Suite 200		
Address 2			
City	Palo Alto	State/Province	CA
Country ^j	US	Postal Code	94301
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Nicholas J. Gallo/		Date (YYYY-MM-DD)	~~2025-08-06~~ ~~2025-04-17~~ 2025-08-01
First Name	Nicholas J.	Last Name	Gallo	Registration Number 60,758
Additional Signature may be generated within this form by selecting the Add button.				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 08/06/2025 02:20:21 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	71724295	FILING DATE	01/17/2025
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20250806_UPDATED_REVI SED_ADS_264248_000171. pdf	10	Application Data Sheet	205 KB

Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20250806_UPDATED_REVI D_ADS_264248_000171.pdf	F56ABE6610695208975275A3354DCEDCDAB7AAA16911A9446 CB0F6594CBB29FFDCB16BFAAF3FCAC4C65266523F3A06DE 7B03FD8B2AE55DB13110A0AB47C443EE

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 08/19/2025 05:12:41 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	71927643	AUTHORIZED BY	Nicholas Gallo
CUSTOMER #	11951	FILING DATE	01/17/2025
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Ankita JHA

Payment Information

PAYMENT METHOD DA / 500436	PAYMENT TRANSACTION ID E20258IH13195636	PAYMENT AUTHORIZED BY Mary Frances Heeks
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FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2501	UTILITY ISSUE FEE	516.00	1	516.00
TOTAL AMOUNT:				\$516.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 08/19/2025 05:12:41 PM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	71927643	FILING DATE	01/17/2025
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20250819_IssueFee_Transmit_264248_000171.pdf	1	Issue Fee Payment (PTO-85B)	95 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20250819_IssueFee_Transmit_264248_000171.pdf	76B0EB99BD29F40E6C76CB1456BA5E4A07D33B67654C6E338 26729C37E1A5899A9BDACC0815843F57647BBEFEE1A0392C D78DB73E64FED1FCC21857E7AB33144

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

11951 7590 07/01/2025
Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023

TITLE OF INVENTION: SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$516	\$0.00	\$0.00	\$516	10/01/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
JACKSON, JAKIEDA R	2657	704-259000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 **Troutman Pepper Locke LLP**

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Sanas.ai Inc.

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Palo Alto, CA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

- ☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. **500436**

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature **/Nicholas J. Gallo/**

Date **August 19, 2025**

Typed or printed name **Nicholas J. Gallo**

Registration No. **60,758**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors	:	Ankita Jha et al.	)	
			)	
Applicant	:	Sanas.ai Inc.	)	
			)	
Serial No.	:	19/027,799	)	Examiner:
			)	Jakieda R. Jackson
Cnfrm. No.	:	8023	)	
			)	Art Unit:
Filed	:	January 17, 2025	)	2657
			)	
For	:	SYSTEMS AND METHODS FOR REAL-TIME	)	
		ACCENT MIMICKING	)	

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant hereby requests a Corrected Filing Receipt for the above-identified patent application. On the attached, marked-up copy of the Updated Filing Receipt, the residence information for the eighth inventor is incorrect. The information under "Inventor(s)" currently reads

Ankita JHA, Bangalore, INDIA;
Lukas Pfeifenberger, Salzburg, AUSTRIA
Piotr Dura, Warsaw, POLAND;
David Braude, Edinburgh, UNITED KINGDOM
Alvaro Escudero, San Sebastian de los Reyes, SPAIN
Shawn Zhang, Palo Alto, CA
Maxim Serebryakov, Palo Alto, C
Sharath Kashava NARAYANA, Palo Alto, CANADA;

but should read:

Ankita JHA, Bangalore, INDIA;
Lukas Pfeifenberger, Salzburg, AUSTRIA
Piotr Dura, Warsaw, POLAND;
David Braude, Edinburgh, UNITED KINGDOM
Alvaro Escudero, San Sebastian de los Reyes, SPAIN
Shawn Zhang, Palo Alto, CA
Maxim Serebryakov, Palo Alto, C
Sharath Kashava NARAYANA, Palo Alto, **CA**;

(correction bolded and underlined)

Applicant is simultaneously submitting a revised Application Data Sheet reflecting the correction of the eighth inventor's residence information.

The Commissioner is hereby authorized to charge any necessary fees to Deposit Account No. 500436.

Respectfully submitted,

Date: September 2, 2025

/Nicholas J. Gallo/
Edwin V. Merkel
Registration No. 60,758

TROUTMAN PEPPER LOCKE LLP
70 Linden Oaks, Suite 210
Rochester, New York 14625
Telephone: (585) 270-2133
Nicholas.gallo@troutman.com



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
19/027,799	01/17/2025	2657	664	264248.000171	20	3

CONFIRMATION NO. 8023

UPDATED FILING RECEIPT



0000000092564383

11951

Troutman Pepper Locke LLP (Rochester)
70 Linden Oaks
Suite 210
Rochester, NY 14625

Date Mailed: 08/06/2025

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Ankita JHA, Bangalore, INDIA;
Lukas Pfeifenberger, Salzburg, AUSTRIA;
Piotr Dura, Warsaw, POLAND;
David Braude, Edinburgh, UNITED KINGDOM;
Alvaro Escudero, San Sebastian de los Reyes, SPAIN;
Shawn Zhang, Palo Alto, CA;
Maxim Serebryakov, Palo Alto, CA;
Sharath Kashava NARAYANA, Palo Alto, CANADA;
CA

Applicant(s)

Sanas.ai Inc., Palo Alto, CA;

Power of Attorney: The patent practitioners associated with Customer Number 11951

Domestic Applications for which benefit is claimed

This appln claims benefit of 63/678,180 08/01/2024

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - **None.**
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 02/10/2025

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 19/027,799**

Projected Publication Date: Not Applicable.

Non-Publication Request: No

Early Publication Request: Yes

**** SMALL ENTITY ****

Title

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Preliminary Class

704

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative,

page 2 of 4

this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

UNITED STATES
PATENT AND TRADEMARK OFFICEP.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov**ELECTRONIC ACKNOWLEDGEMENT RECEIPT**

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
19/027,799	09/02/2025 11:31:52 AM Z ET	264248.000171

Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	72106553	FILING DATE	01/17/2025
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents**TOTAL DOCUMENTS: 1**

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20250902_Request_Corrected_FR_264248_000171.pdf	6	Request for Corrected Filing Receipt	279 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20250902_Request_Corrected_FR_264248_000171.pdf	79028AA5C8D4209AE6937231C523504DC7B944E72098211091 3EA0D82B6B3F09DAF1A72F0C676E81C8733D07523A4B529B7 1639AD92689EDA009CB8CBD071EE3

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION # 19/027,799	RECEIPT DATE / TIME 09/02/2025 11:37:44 AM Z ET	ATTORNEY DOCKET # 264248.000171
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Title of Invention

SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8023	FILED BY	Mary Frances Heeks
PATENT CENTER #	72106702	FILING DATE	01/17/2025
CUSTOMER #	11951	FIRST NAMED INVENTOR	Ankita JHA
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Nicholas Gallo

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20250902_Revised_ADS_26 4248_000171.pdf	10	Application Data Sheet	11473 KB

Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20250902_Revised_ADS_2642 48_000171.pdf	105718E0A2406C751E8CE6D9E7FD2D716B8F9E64BA4239E97 245C1025D3B5FEC6A82F1E5F1365078842F58450FC9B0C525 EE68BA8B236B65CE1825DCA80A1028

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized

by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Ankita		JHA		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Bangalore	Country of Residence ⁱ	IN		
Mailing Address of Inventor:					
Address 1	c/o Sanas.ai Inc.				
Address 2	437 Lytton Avenue, Suite 200				
City	Palo Alto	State/Province	CA		
Postal Code	94301	Country ⁱ	US		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Lukas		PFEIFENBERGER		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Salzburg	Country of Residence ⁱ	AT		
Mailing Address of Inventor:					
Address 1	c/o Sanas.ai Inc.				
Address 2	437 Lytton Avenue, Suite 200				
City	Palo Alto	State/Province	CA		
Postal Code	94301	Country ⁱ	US		
Inventor 3					Remove
Legal Name					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Prefix	Given Name	Middle Name	Family Name	Suffix
	Piotr		DURA	

Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service

City	Warsaw	Country of Residence ⁱ	PL
------	--------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Inventor 4

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	David		BRAUDE	

Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service

City	Edinburgh	Country of Residence ⁱ	GB
------	-----------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Inventor 5

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alvaro		ESCUDERO	

Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service

City	San Sebastian de los Reyes	Country of Residence ⁱ	ES
------	----------------------------	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Sanas.ai Inc.		
Address 2	437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA
Postal Code	94301	Country ⁱ	US

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Inventor 6 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Shawn		ZHANG	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence US

Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	

Inventor 7 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Maxim		SEREBRYAKOV	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Palo Alto	State/Province	CA	Country of Residence US

Mailing Address of Inventor:				
Address 1		c/o Sanas.ai Inc.		
Address 2		437 Lytton Avenue, Suite 200		
City	Palo Alto	State/Province	CA	
Postal Code	94301	Country	US	

Inventor 8 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	<u>Sharath</u>	<u>Kashava</u>	<u>NARAYANA</u>	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	<u>Palo Alto</u>	Country of Residence	<u>CA</u>	US

Mailing Address of Inventor:				
Address 1		<u>c/o Sanas.ai Inc.</u>		
Address 2		<u>437 Lytton Avenue, Suite 200</u>		
City	<u>Palo Alto</u>	State/Province	<u>CA</u>	
Postal Code	<u>94301</u>	Country	<u>US</u>	

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.

Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	11951	
Email Address		Add Email Remove Email

Application Information:

Title of the Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Attorney Docket Number	264248.000171	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☒ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	11951		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	63678180	2024-08-01
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Remove
			Access Code ¹ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. ☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	19/027,799
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor	
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Sanas.ai Inc.		
Mailing Address Information For Applicant:			
Address 1	437 Lytton Avenue, Suite 200		
Address 2			
City	Palo Alto	State/Province	CA
Country	US	Postal Code	94301
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).

This Application Data Sheet must be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, all joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of all joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Nicholas J. Gallo/		Date (YYYY-MM-DD)	2025-09-02 ~~2025-04-17~~ ~~2025-08-04~~
First Name	Nicholas J.	Last Name	Gallo	Registration Number 60,758
Additional Signature may be generated within this form by selecting the Add button.				

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	264248.000171
		Application Number	<u>19/027,799</u>
Title of Invention	SYSTEMS AND METHODS FOR REAL-TIME ACCENT MIMICKING		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	09/16/2025	12417756	264248.000171	8023

11951 7590 09/03/2025
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ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at <https://certifiedcopycenter.uspto.gov/index.html>. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (<https://patentcenter.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
19/027,799	01/17/2025	Ankita JHA	264248.000171	8023
11951	7590	09/16/2025		
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			09/16/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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APPLICATION NO.	ISSUE DATE	PATENT NO.
19/027,799	16-Sep-2025	12417756

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