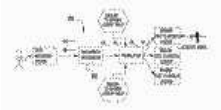
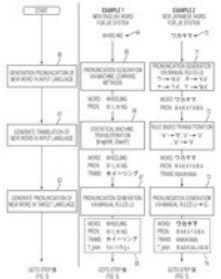
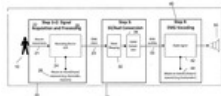
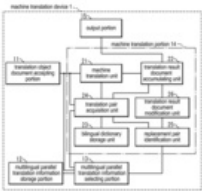
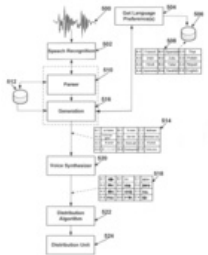
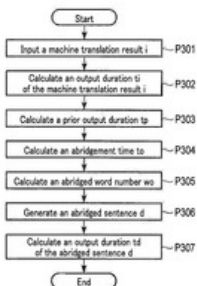
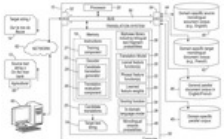
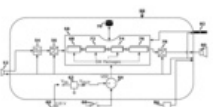
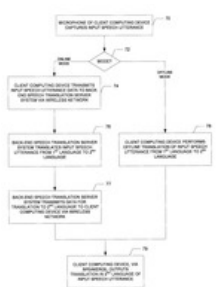
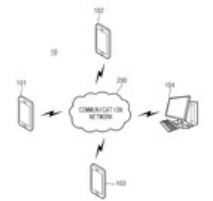


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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Methods and apparatuses for myoelectric-based speech processing                                                                                   | US20080103769      | 2008-05-01 | FACEBOOK<br>BIOSENSIC                                              |    |
| <p>A method for myoelectric-based processing of speech. The method includes capturing a myoelectric signal from a user using at least one electrode, wherein the electrode converts an ionic current generated by muscle contraction into an electric current. The method also includes amplifying the electric current, filtering the amplified electric current, and converting the filtered electric current into a digital signal. The method further includes transmitting the myoelectric signal to a digital device, transforming the digital signal into a written representation using an automatic speech recognition method, and generating an audible output from the written representation using a speech synthesis method.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Enhanced speech-to-speech translation system and methods                                                                                          | EP2548201          | 2013-01-23 | FACEBOOK<br>MOBILE TECHNOLOGIES                                    |    |
| <p>A speech translation system and methods for cross-lingual communication that enable users to improve and modify content and usage of the system and easily abort or reset translation. The system includes a speech recognition module configured for accepting an utterance, a machine translation module, an interface configured to communicate the utterance and proposed translation, a correction module and an abort action unit that removes any hypotheses or partial hypotheses and terminates translation. The system also includes modules for storing favorites, changing language mode, automatically identifying language, providing language drills, viewing third party information relevant to conversation, among other things.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | System and methods for maintaining speech-to-speech translation in the field                                                                      | US20150254238      | 2015-09-10 | FACEBOOK                                                           |                                                                                       |
| <p>Extensions to an apparatus for speech translation improve the effectiveness of communication. An apparatus for speech translation capable of repairing errors and expanding its vocabulary. System and methods improve the ease by which common, linguistically untrained users can better recover from errors, extend and customize the language coverage of their speech translation device and increase the speed of effective communication, including stopping translation by shaking, correction of pronunciations using pseudo phonetics, translation favorites, translation modes, small dictionary based on user repair and boosting, single action speech translators, speech translation dialog language learning, translation from telephone conversations, targeted ads based on translated speech, backchanneling based on speech, and web presentation based on speech.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Translation and integration of presentation materials in cross-lingual lecture support                                                            | US20140365202      | 2014-12-11 | FACEBOOK                                                           |   |
| <p>Computer-based systems and methods are disclosed for translation of a spoken presentation (e.g., a lecture) along with the accompanying presentation materials. Translation and delivery of the presentation materials to a listener is annotated and aligned with the lecture, so that the listener can follow both the lecture and the presentation material. The content of the presentation materials can be used to improve lecture translation and transcription, as it extracts supportive material from the presentation materials as they relate to the lecturer's speech.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Computer-implemented method, computer system and computer program product for automatic transformation of myoelectric signals into audible speech | EP2887351          | 2015-06-24 | KARLSRUHER INSTITUTE FÜR TECHNOLOGIE                               |  |
| <p>In one aspect, the present application is directed to a computer-implemented method, a computer program product, and a computer system for automatic transformation of myoelectric signals into speech output corresponding to audible speech. The computer-implemented method may comprise: capturing, from a human speaker, at least one myoelectric signal representing speech; converting at least part of the myoelectric signal to one or more speech features; and vocoding the speech features to generate and output the speech output corresponding to the myoelectric signal.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Machine translation device, machine translation method and program                                                                                | WO2009/101833      | 2009-08-20 | NICT NATIONAL INSTITUTE OF INFORMATION & COMMUNICATIONS TECHNOLOGY |  |
| <p>This object aims to provide a machine translation device that repeats a machine translation between two languages so as to carry out translations from the first language to the N-th language, (N is an integer number that is equal to or more than 3). A machine translation device is provided with a translation subject reception unit (11) that receives a translation subject document which becomes a translation subject of the first language; a multi-language parallel translation information memory unit (12) that stores one or more multi-language parallel translation information data that are a combination of words with the same meanings from the first language to the N-th language; a multi-language parallel translation information selection unit (13) that selects multi-language parallel translation information including a word contained in a translation subject document of the i-th language (i is an integer number from 1 to N-1) from the one or more multi-language parallel translation information data; a machine translation unit (14) that repeats machine translation processing from the translation document of the i-th language to a translation document of the (i+1)-th language, starting from the translation subject document of the first language until a translation subject document of the N-th language so that a relationship of the parallel translation between two languages contained in the multi-language parallel translation information after the selection can be used; and output unit (15) that outputs the N-th language document after the machine translation.</p> |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | System and methods for maintaining speech-to-speech translation in the field                                                                      | EP2274742          | 2011-01-19 | FACEBOOK<br>MOBILE TECHNOLOGIES                                    |  |
| <p>A method and apparatus are provided for updating the vocabulary of a speech translation system for translating a first language into a second language including written and spoken words. The method includes adding a new word in the first language to a first recognition lexicon of the first language and associating a description with the new word, wherein the description contains pronunciation and word class information. The new word and description are then updated in a first machine translation module associated with the first language. The first machine translation module contains a first tagging module, a first translation model and a first language module, and is configured to translate the new word to a corresponding translated word in the second language. Optionally, the invention may be used for bidirectional or multi-directional translation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                    |            |                                                                    |                                                                                       |

|     |                                                                                                                                                   |               |            |                                                                                                                  |                                                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 8.  | Phonetic natural language translation system                                                                                                      | US20100049497 | 2010-02-25 | MANUEL-DEVADOSS SMITH JOHNSON                                                                                    |    |
| 9.  | Interpretation apparatus and method                                                                                                               | US20160314116 | 2016-10-27 | TOSHIBA                                                                                                          |    |
| 10. | Lexical and phrasal feature domain adaptation in statistical machine translation                                                                  | US20140067361 | 2014-03-06 | XEROX                                                                                                            |    |
| 11. | Universal translator                                                                                                                              | US20110270601 | 2011-11-03 | KARAPETIAN VAHE NICK JR                                                                                          |   |
| 12. | Hybrid, offline/online speech translation system                                                                                                  | EP2804113     | 2014-11-19 | FACEBOOK                                                                                                         |  |
| 13. | System for speaker diarization based multilateral automatic speech translation system and its operating method, and apparatus supporting the same | US20150227510 | 2015-08-13 | ELECTRONICS & TELECOMMUNICATIONS RESEARCH INSTITUTE<br>KOREA ELECTRONICS & TELECOMMUNICATIONS RESEARCH INSTITUTE |  |