List of Challenged Claims – USP 7,634,409

Claims 1-3, 6
[1.1] A method for providing out-of-vocabulary interpretation capabilities and for tolerating noise when interpreting natural language speech utterances, the method comprising: [1.2] receiving an utterance from a user; [1.3] recognizing a stream of phonemes contained in the utterance on an electronic device; [1.4] mapping the recognized stream of phonemes to an acoustic grammar that phonemically represents one or more syllables, the recognized stream of phonemes mapped to a series of one or more of the phonemically represented syllables; and [1.5] generating at least one interpretation of the utterance, wherein the generated interpretation includes the series of syllables mapped to the recognized stream of phonemes.
2. The method of claim 1, the acoustic grammar phonemically representing the one or more syllables in accordance with acoustic elements of an acoustic speech model, wherein each syllable is represented by acoustic elements for an onset, a nucleus, and a coda.
3. The method of claim 2, the acoustic grammar including transitions between the acoustic elements, wherein the transitions are constrained according to phonotactic rules of the acoustic speech model.
[6.1] The method of claim 1, further comprising: generating a plurality of candidate interpretations of the utterance, wherein each candidate interpretation includes a series of words or phrases corresponding to the series of syllables mapped to the recognized stream of phonemes; [6.2] assigning a score to each of the plurality of candidate interpretations; and [6.3] selecting a candidate interpretation having a highest assigned score as being a probable interpretation of the utterance.