Comparison of '409 Patent Claims Against
Claims in EP Application No. 06814053.2 as Amended on May 14, 2008

(**bold text indicates substantially identical language**)

| USP 7,634,409 Claims | EP App. No. 06814053.2<br>May 14, 2008 Amended Claims |
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| 1. A method for **providing out-of-vocabulary interpretation capabilities and for tolerating noise when interpreting natural language speech utterances, the method comprising:** | 9. A system for **providing out-of-vocabulary interpretation capabilities and for tolerating noise when interpreting natural language speech utterances, the system comprising**: |
| **receiving an utterance from a user**; | at least one input device that **receives an utterance from a user** and generates an electronic signal corresponding to the utterance; and |
| | a speech interpretation engine that receives the electronic signal corresponding to the utterance, the speech interpretation engine operable to: |
| **recognizing a stream of phonemes contained in the utterance** on an electronic device; | **recognize a stream of phonemes contained in the utterance**; |
| **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** | **map 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** |
| **generating at least one interpretation of the utterance, wherein the generated** | **generate at least one interpretation of the utterance, wherein the generated** |

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| **interpretation includes the series of syllables mapped to the recognized stream of phonemes.** | **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.** | 10. The system of claim 9, **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.** | 11. The system of claim 10, **the acoustic grammar including transitions between the acoustic elements, wherein the transitions are constrained according to phonotactic rules of the acoustic speech model.** |
| 6. The method of claim 1, further comprising: | 14. The system of claim 9, further comprising a sharpening engine that receives the generated interpretation of the utterance from the speech interpretation engine, the sharpening engine operable to: |
| **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;** | **generate 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;** |
| **assigning a score to each of the plurality of candidate interpretations; and** | **assign a score to each of the plurality of candidate interpretations; and** |

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| **selecting a candidate interpretation having a highest assigned score as being a probable interpretation of the utterance.** | **select a candidate interpretation having a highest assigned score as being a probable interpretation of the utterance.** |