Claim Mapping of the ’461 patent	
1[pre]. A method of monitoring an acoustic environment of a mobile device for voice commands when the mobile device is operating in a low power mode, the method comprising:	18[pre]. A mobile device comprising:
	18[a] at least one processor configured to:
1[a] receiving acoustic input from the environment of the mobile device while the mobile device is operating in idle mode; and	
1[b] in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input,	18[a(i)] in response to the mobile device receiving acoustic input from the environment while operating in an idle mode, determine whether the received acoustic input includes a voice command by processing the received acoustic input,
1[c] the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device,	18[a(ii)] the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the received acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device,
1[d] the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed	18[a(iii)] the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being

while the mobile device is operating in the idle mode.	performed while the mobile device is operating in the idle mode.
2. The method of claim 1, further comprising transitioning the mobile device from the idle mode to an active mode in response to detecting that the acoustic input includes a voice command.	
3. The method of claim 1, wherein the at least one contextual cue includes the time the acoustic input was received, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on the time the acoustic input was received.	
4. The method of claim 1, wherein the at least one contextual cue includes recent activity on the mobile device, the method further comprising evaluation of at least one of the plurality of processing stages based on at least one of how recently the user activated the mobile device, how recently the user issued a voice command and how recently the user performed at least one action on the mobile device.	
5. The method of claim 1, wherein the at least one contextual cue includes an occurrence of an event on the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on whether the acoustic input is received proximate in time with the occurrence of the event.	
6. The method of claim 1, wherein the at least one contextual cue includes motion of the mobile device received as an input from an accelerometer of the	

mobile device, the method comprises influencing evaluation of at least one of the plurality of processing stages based on an assessment of whether the user moved the mobile device proximate in time with receiving the acoustic input based, at least in part, on the input from the accelerometer.	
7. The method of claim 1, wherein the at least one contextual cue includes the location of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on determining whether the mobile device is located in at least one of a vehicle, a home or a place of work of the user of the mobile device.	
8. The method of claim 1, wherein the at least one contextual cue includes the power source of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on at least one of determining whether the mobile device is being powered using a battery or wall power, and a state of the battery if the mobile device is being powered using the battery.	
9. The method of claim 1, wherein the at least one contextual cue includes the sample of the acoustic environment obtained by the mobile device by storing acoustic input previously received by the mobile device and determined not to include a voice command, and the method comprises subtracting the sample of the acoustic environment from the acoustic input.	

10. The method of claim 1, wherein a sequence of performing the plurality of processing stages is determined, at least in part, by the at least one contextual cue.	
11. The method of claim 1, wherein the mobile device includes a primary processor and a secondary processor, and wherein at least one first processing stage of the plurality of processing stages is performed by the secondary processor prior to engaging the primary processor to process the acoustic input.	
12. The method of claim 11, wherein at least one second processing stage of the plurality of processing stages is performed by the primary processor only after the at least one first processing stage is performed and neither concludes that the acoustic input includes a voice command nor concludes that the acoustic input is the result of spurious acoustic activity.	
13. The method of claim 11, wherein performing the at least one first processing stage includes performing at least one voice activity detection processing stage including performing at least one of spectral analysis on the acoustic input to evaluate whether a spectrum of the acoustic input is indicative of voice activity, periodicity analysis to evaluate whether signal periodicity of the acoustic input is indicative of voice activity, and phone loop analysis to evaluate whether the acoustic input includes speech.	
14. The method of claim 11, wherein performing the at least one first processing stage comprises performing	

limited vocabulary automatic speech recognition on the acoustic input to detect whether the acoustic input includes an explicit voice trigger.	
15. The method of claim 11, wherein performing the at least one second processing stage comprises performing at least one speech processing stage including at least one of automatic speech recognition on the acoustic input and at least one natural language processing stage to understand the meaning of the voice command.	
16. The method of claim 1, wherein the mobile device is capable of connecting to at least one server via a network, and the method comprises transmitting at least a portion of the acoustic input to the at least one server via the network for processing by the at least one server.	
17. The method of claim 1, comprising performing one or more default actions when a specific task could not be ascertained from the acoustic input.	