

US005231670A

United States Patent [19]

Goldhor et al.

Patent Number:

5,231,670

Date of Patent: [45]

[11]

Jul. 27, 1993

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ABSTRACT [57]

Disclosed is a system and method for generating text from a voice input that divides the processing of each speech event into a dictation event and a text event. Each dictation event handles the processing of data relating to the input into the system, and each text event deals with the generation of text from the inputted voice signals. In order to easily distinguish the dictation events from each other and text events from each other the system and method creates a data structure for storing certain information relating to each individual event. Such data structures enable the system and method to process both simple spoken words as well as spoken commands and to provide the necessary text generation in response to the spoken words or to execute an appropriate function in response to a command. Speech recognition includes the ability to distinguish between dictation text and commands.

11 Drawing Sheets

S			25 Clai	ms,
	APPLICATION PROGRAM	7	- 22	†
10	TEXT EVENT	_	PLICATION INPUT	APPLICATION
RECOGNIZER COMMANDS			ANSLATIONS AND HANDLES	*
	DICTATION EVE SUBSYSTEM		18	
RECOGNIZER COMMANDS		CAI	NDIDATE SETS	NIZER
	SPEECH EVE ANALYZER	NT	- -16	RECOGNIZER
0		SPI	EECH EVENT DATA	
<u> </u> 12	SPEECH SIGNAL PROCESSO	R	_14	

VOICE CONTROLLED SYSTEM AND METHOD FOR GENERATING TEXT FROM A VOICE CONTROLLED INPUT [75] Inventors: Richard S. Goldhor, Belmont; John F. Dooley, Reading; Christopher N. Hume, Belmont; James P. Lerner, Newton; Brian D. Wilson, Holliston, all of Mass. [73] Assignee: Kurzweil Applied Intelligence, Inc., Waltham, Mass. [21] Appl. No.: 855,461 [22] Filed: Mar. 19, 1992 Related U.S. Application Data Continuation of Ser. No. 57,332, Jun. 1, 1987, aban-[63] doned 395/2 References Cited U.S. PATENT DOCUMENTS

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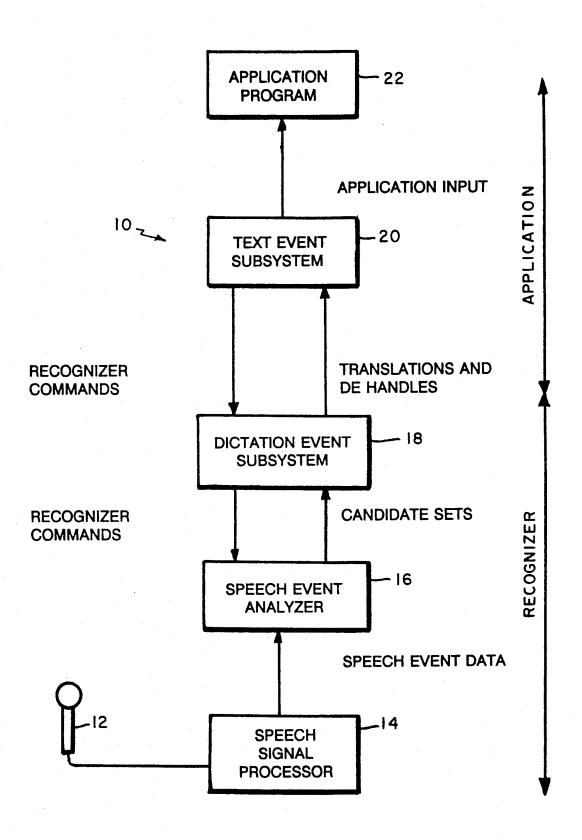


FIG. I



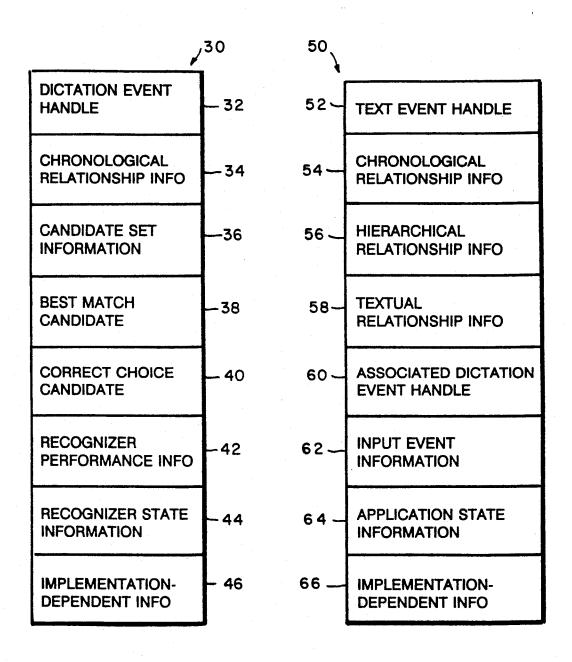
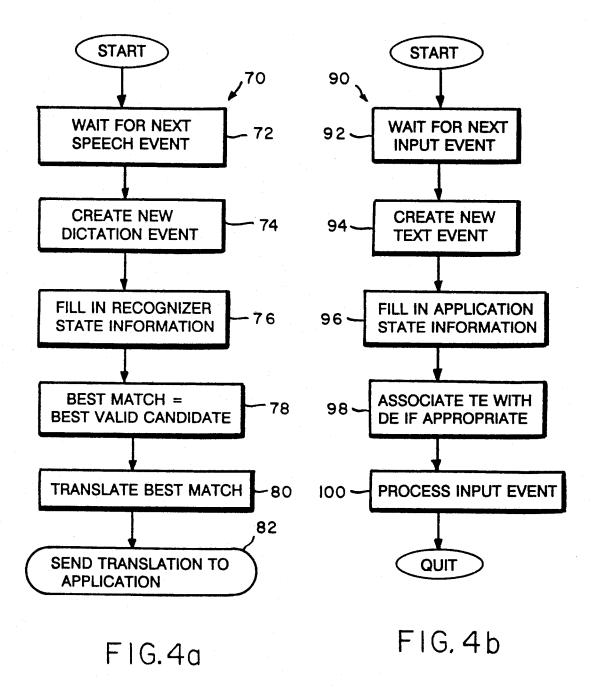


FIG. 2

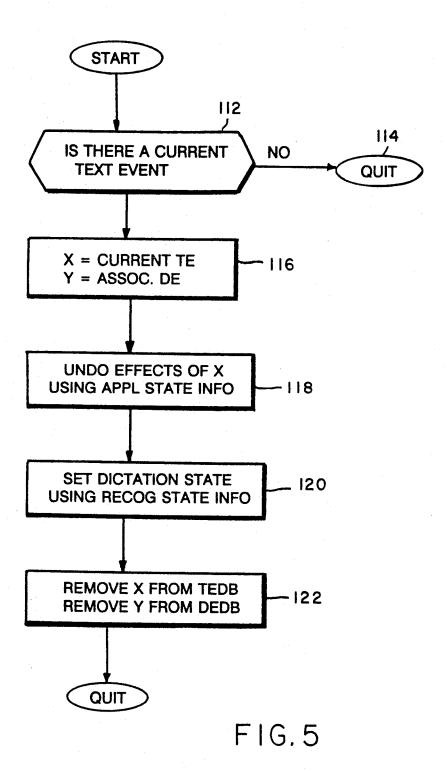
FIG. 3



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