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## United States Patent [19]

#### Fukumochi et al.

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o Kugimiya, Nara;	61-74069	4/1986	Japan .
Tokuyuki Hirai,	62-271057	11/1987	Japan .
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#### 571

A translation machine having a storing unit for storing information of words and grammer rules, the translation machine being capable of translating sentences described in a source language into a target language includes a unit for dividing input sentence described in the source language into morphologic elements and for generating a mark-inserted sentence by adding a mark which represents an information of the detected morphologic elements, a unit connected to the dividing unit for analyzing a syntax of the morphologic elements in accordance with the information stored in the storing unit, and a unit connected to the analyzing unit for converting a structure of the syntax obtained in the dividing unit into a structure of syntax in the target language so that translated sentence is generated on a basis of the syntax structure in the target language obtained by the converting unit.

**ABSTRACT** 

### 9 Claims, 12 Drawing Sheets

[54]	TRANSLATION MACHINE						
[75]	Inventors:	Yoji Fukumochi, Ikoma; Hitoshi Suzuki, Nara; Shuzo Kugimiya, Nara; Ichiko Sata, Nara; Tokuyuki Hirai, Yamato-Koriyama, all of Japan					
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[21]	Appl. No.: 641,738						
[22]	Filed:	Jan	. 15, 1991				
[30] Foreign Application Priority Data							
Jan	. 22, 1990 [JF	PĴ	Japan       1-2146         Japan       1-2147         Japan       1-7116				
[52]	U.S. Cl						
[56]		Re	ferences Cited				
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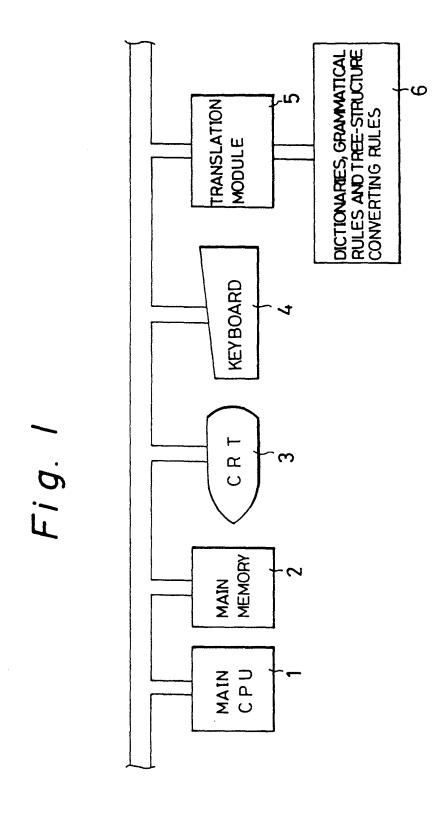
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MAIN CPU	MAIN MEMORY 2	CRT 3	KEYBOARD 4	TRANSLATION MODULE 5
				DICTIONARIES, GRAMMATICAL RULES AND TREE-STRUCTURE CONVERTING RULES

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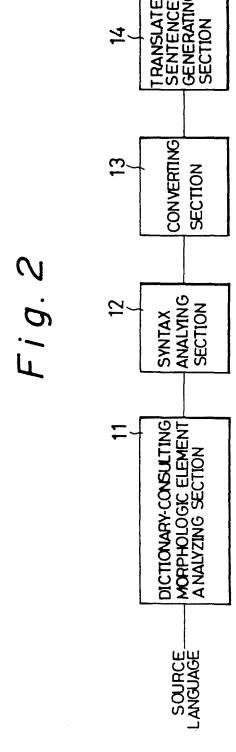


Fig. 3

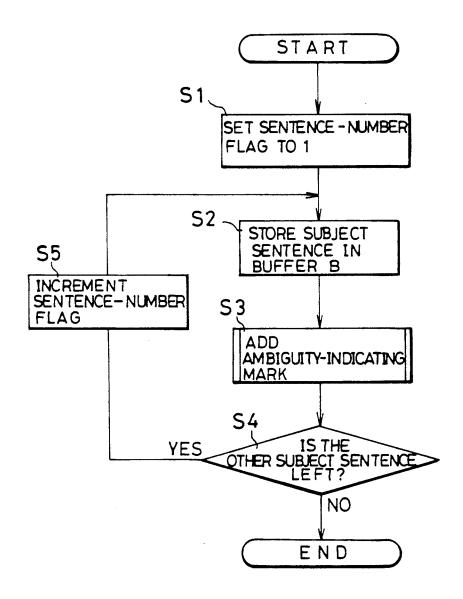
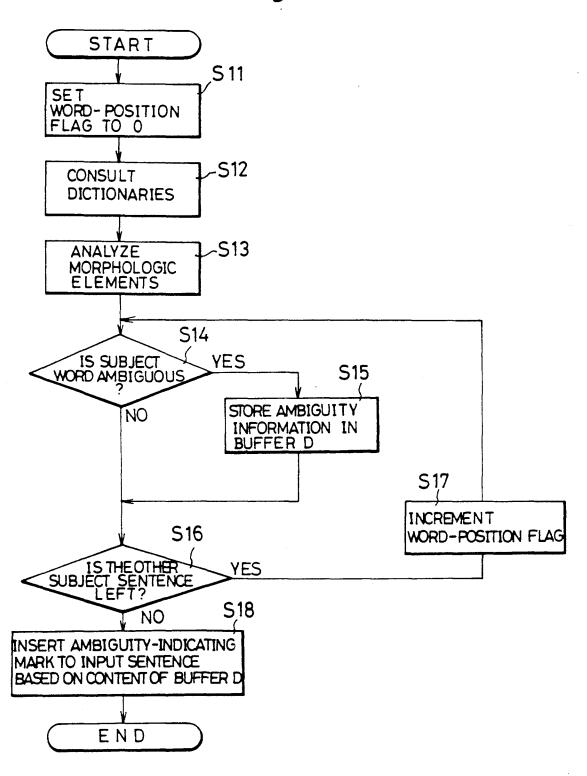


Fig. 4

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