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United States Patent [19]
Kornfeld

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[54] **METHOD AND APPARATUS FOR PARSING DATA**

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[21] Appl. No.: **777,935**

[22] Filed: **Dec. 23, 1996**

[51] **Int. Cl.⁶** **G06F 17/30**

[52] **U.S. Cl.** **707/531**

[58] **Field of Search** **707/530, 531, 707/515, 516**

[56] **References Cited**

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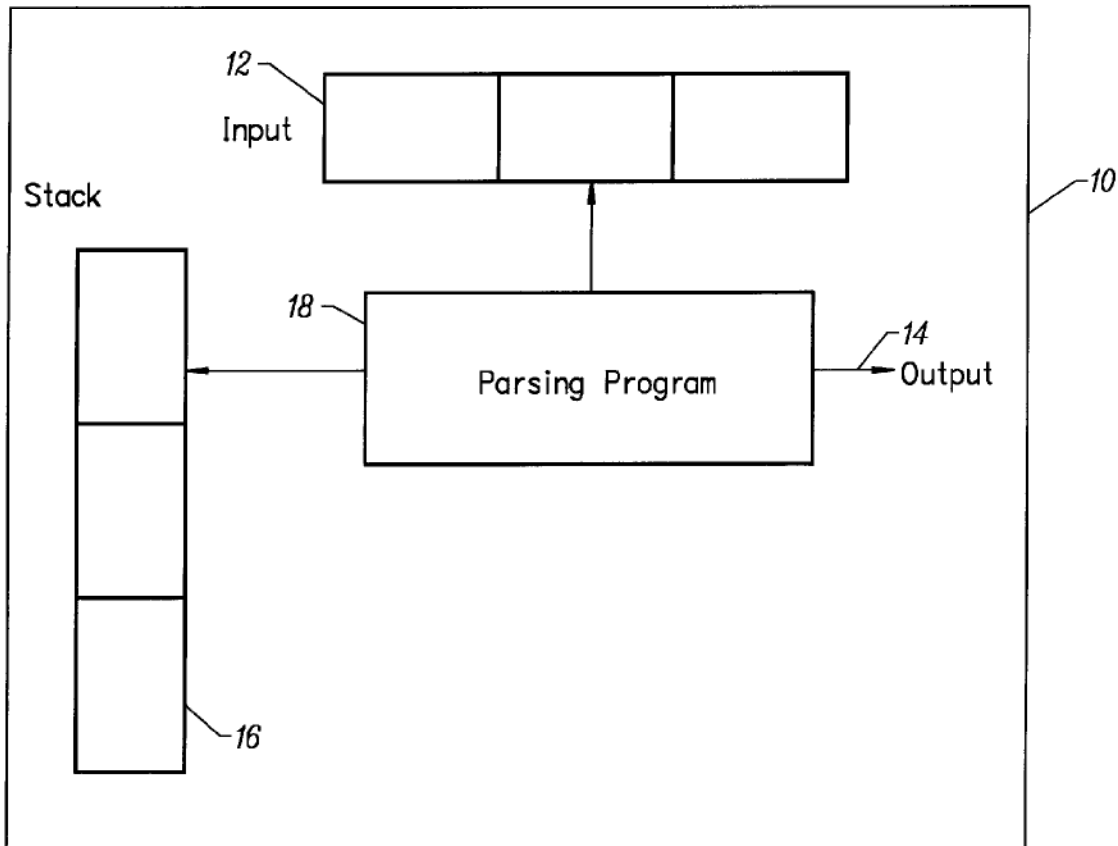
Aho et al., *Compilers: Principles, Techniques, and Tools*, Sec. 4.7, pp. 215-247, 1986, Addison-Wesley Publishing Co.

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[57] **ABSTRACT**

A method and apparatus is provided for rendering a consistent format output for record data having inconsistent internal structures. Record data is batch entered into a database input buffer associated with a computer. Consecutive data lines are transferred from the input buffer to a stack. A parsing algorithm identifies related categories of the data in the stack. The individual data lines comprising each category are replaced with the associated compound category data line. Failures of the parsing algorithm to provide consistent format output are detected. An interactive editor interface displays the input buffer or stack to the user. Manual parsing and correction of data errors is thereby permitted.

24 Claims, 18 Drawing Sheets



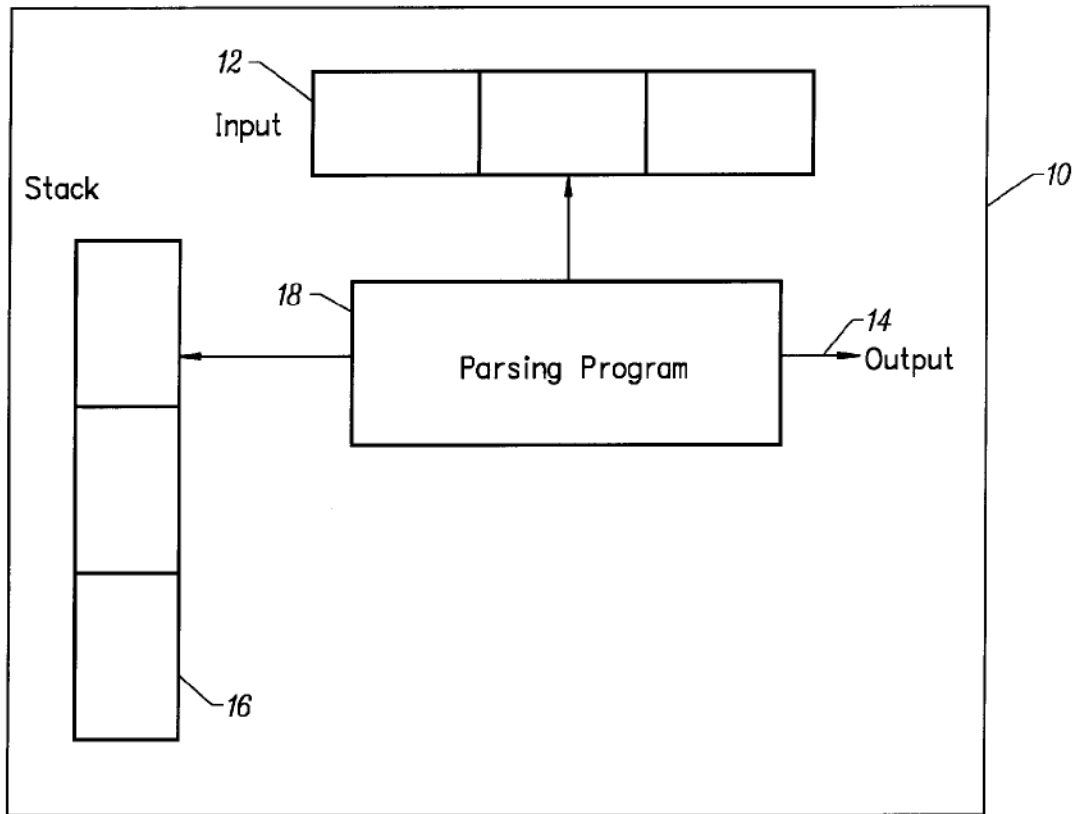


FIG. 1

EQUITY OIL COMPANY

Balance Sheets
as of September 30, 1995 and December 31, 1994
(Unaudited)

		September 30, 1995	December 31, 1994
ASSETS			
Sum Compound	Current assets:		
	Cash and cash equivalents	\$ 154,399	\$ 363,342
	Temporary cash investments	1,492,873	2,466,728
	Accounts and advances receivable	3,308,928	3,434,955
	Income taxes receivable	231,262	293,440
	Deferred income taxes	48,281	48,281
	Other current assets	393,791	389,613
		5,629,534	6,996,359
Difference Compound	Property and equipment	97,886,166	95,048,505
	Less accumulated depletion, depreciation and amortization	57,336,588	54,236,588
		40,549,578	40,811,917
Indentation Compound	Other Noncurrent assets:		
	Investment in and note receivable from Symkaya Exploration	5,408,172	3,415,123
	Investment in Raven Ridge Pipeline Partnership	565,191	684,937
	Other	200,040	—
	TOTAL ASSETS	\$ 52,352,515	\$ 51,908,336

FIG. 2

52

<assets>:	52,352,515	51,908,336		
Current assets:			5,629,534	6,996,359
Cash and cash equivalents	44	154,399		363,342
Temporary cash investments		1,492,873		2,466,728
Accounts and advances receivable		3,308,928		3,434,955
Income taxes receivable		231,262		293,440
Deferred income taxes		48,281		48,281
Other current assets		393,791		389,613
Net Property and equipment		40,549,578		40,811,917
Property and equipment	30	97,886,166		95,048,505
-minus-				
Less accumulated depletion, depreciation and amortization		57,336,588		54,236,588
Other Noncurrent assets:			6,173,403	4,100,060
Investment in and note receivable from Symkaya Exploration		5,408,172		3,415,123
Investment in Raven Ridge Pipeline Partnership		565,191		684,937
Other		200,040		0

46

44

51

FIG. 3

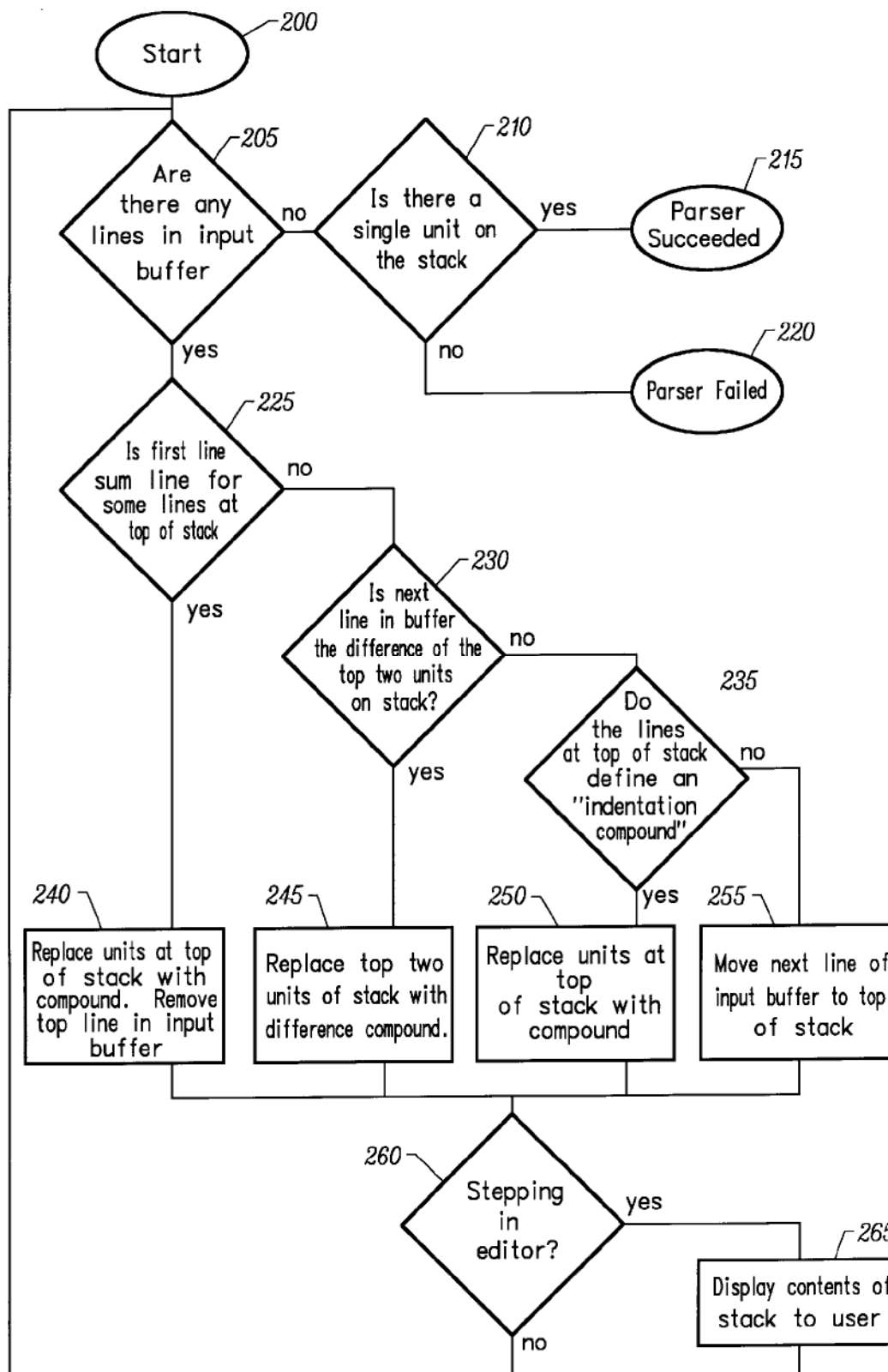


FIG. 4

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