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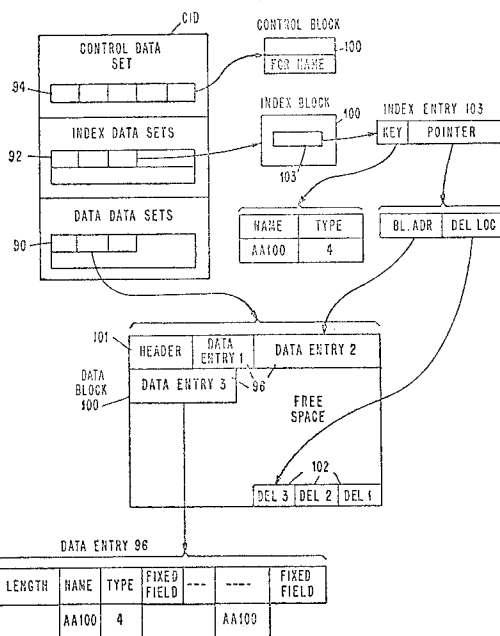
RULES DRIVEN DATA MANAGEMENT PROCESS
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Int. Cl. G06f 15/40, 7/28, 9/06

U.S. Cl. 444-1

17 Sheets Drawing, 43 Pages Specification



A design automation system has a data base in which data entries are accessed through an index. The characteristics of the data base, such as lengths, syntax, and contents of individual fields, are specified in a master rule. When a processing program accesses the data base, the master rule is also accessed to obtain the field characteristics and to use them to set up any subsidiary rules governing operation of the processing programs. Information is placed in the data base by update commands that identify the fields and contents. A language processor checks the commands and translates them into parameter lists that are used by a file processor to change the data base. Information in the data base can be used by an output processor, e.g., to format and print a logic diagram.

FIG. 1

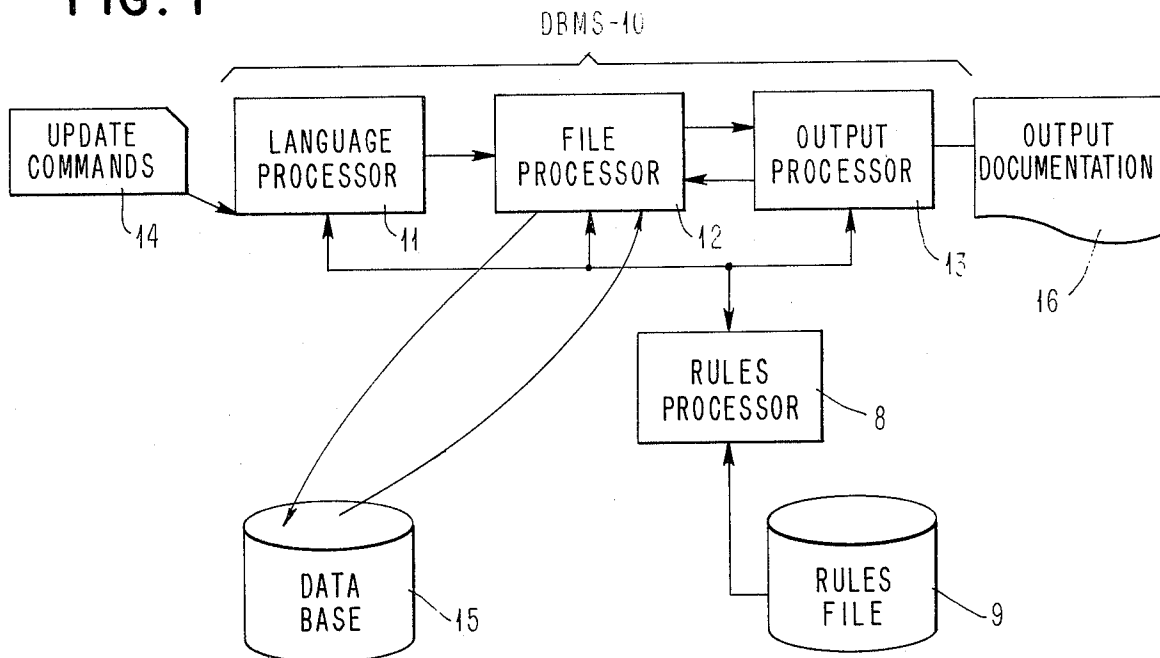


FIG. 2

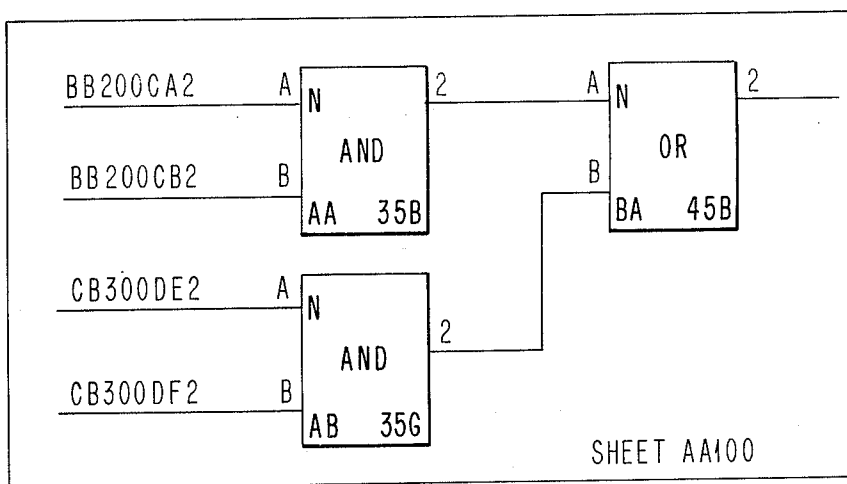


FIG. 3

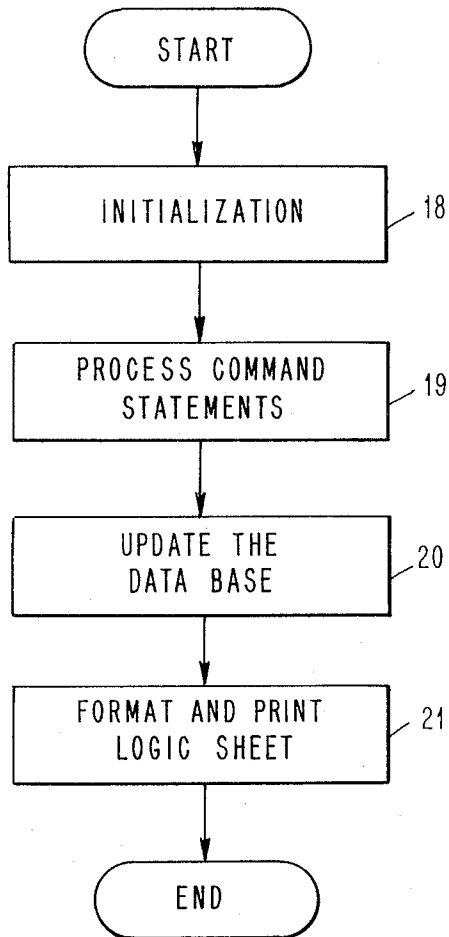
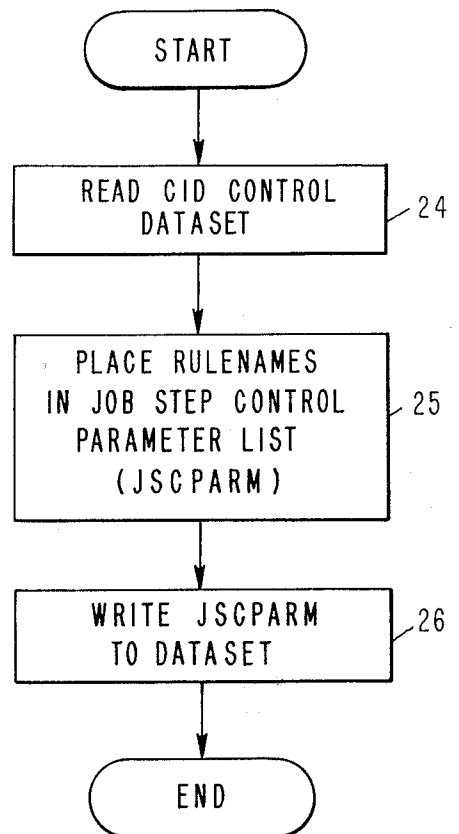


FIG. 4



PROCESSING UPDATE STATEMENTS

FIG. 5a

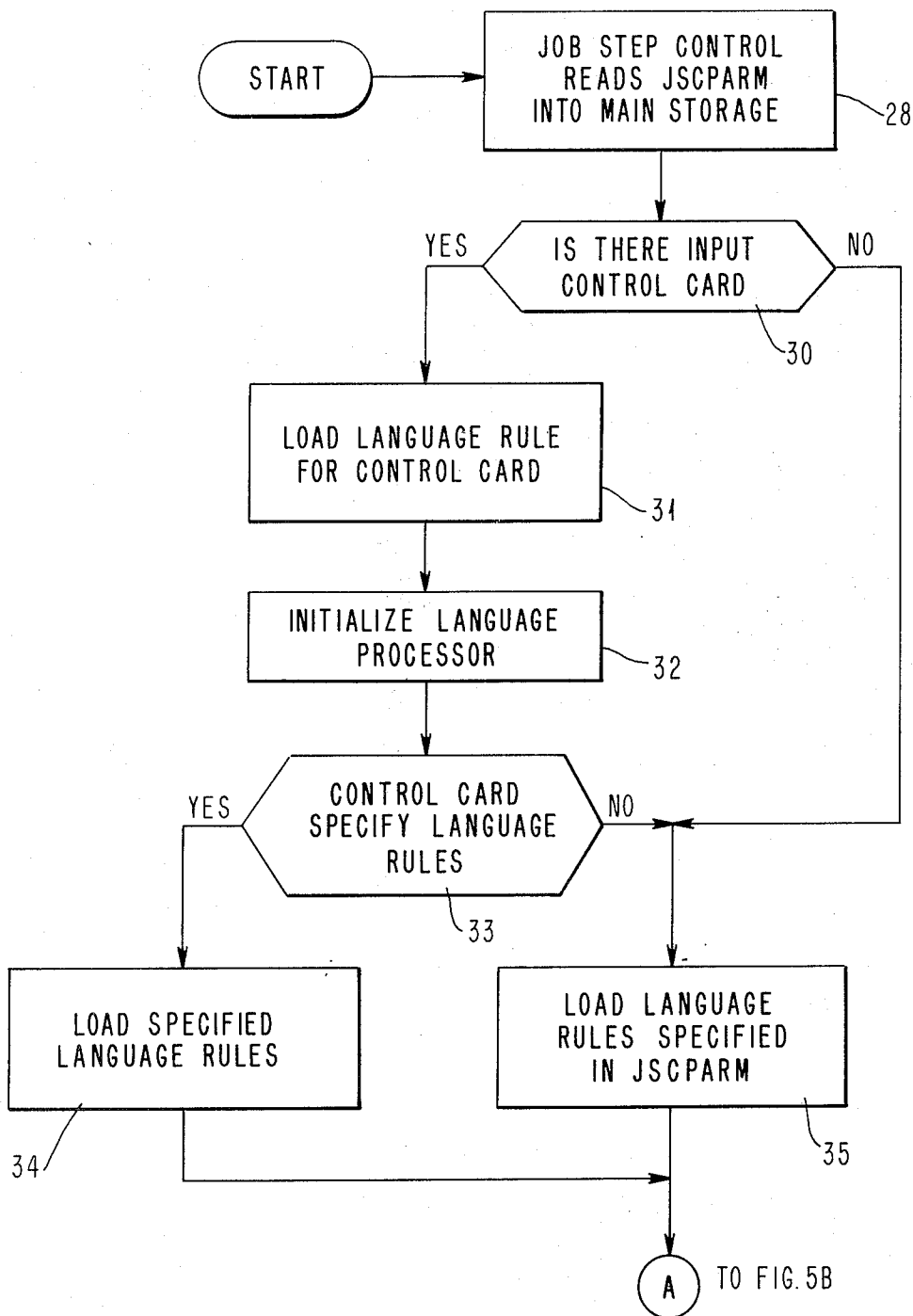


FIG. 5b

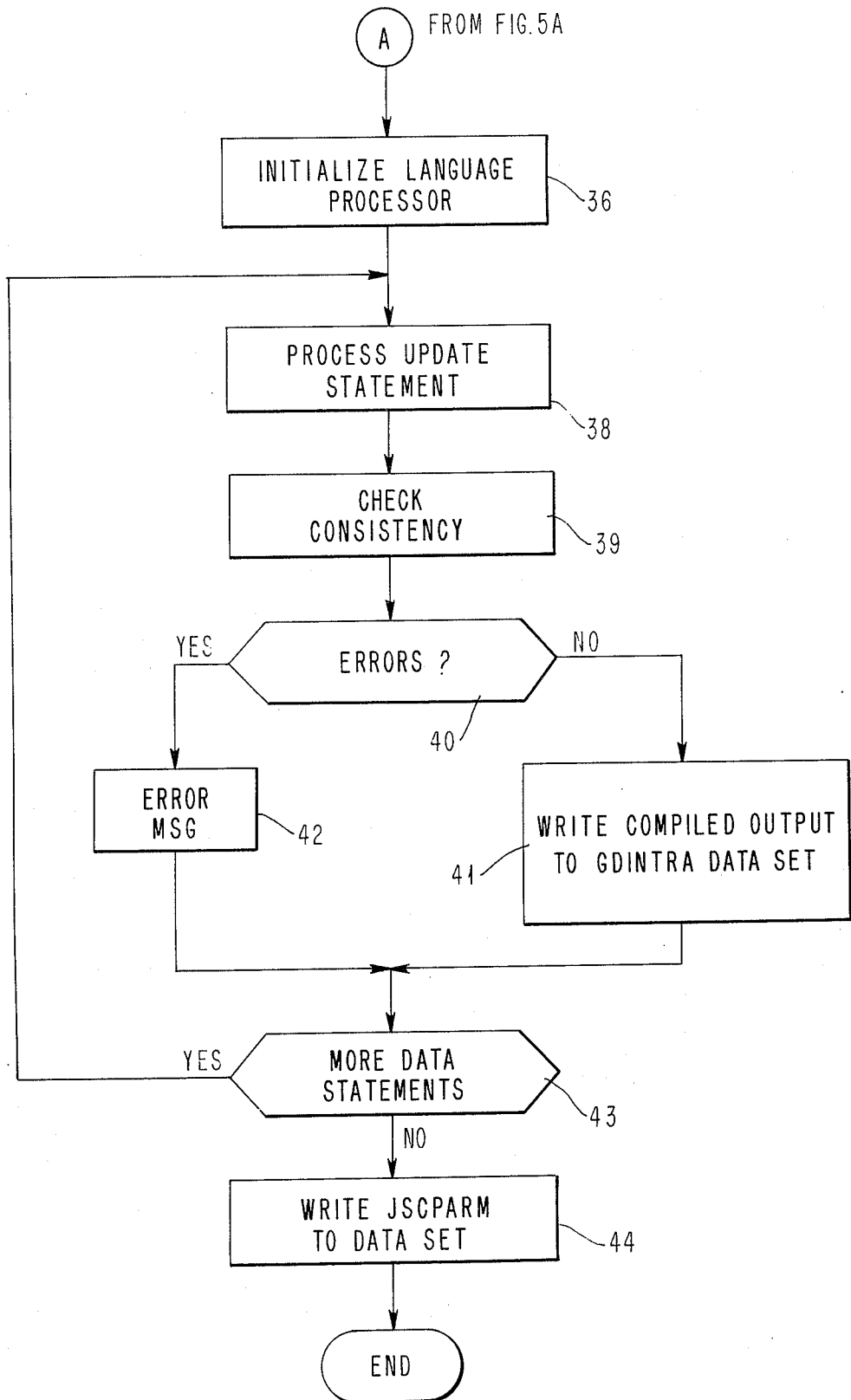


FIG. 6

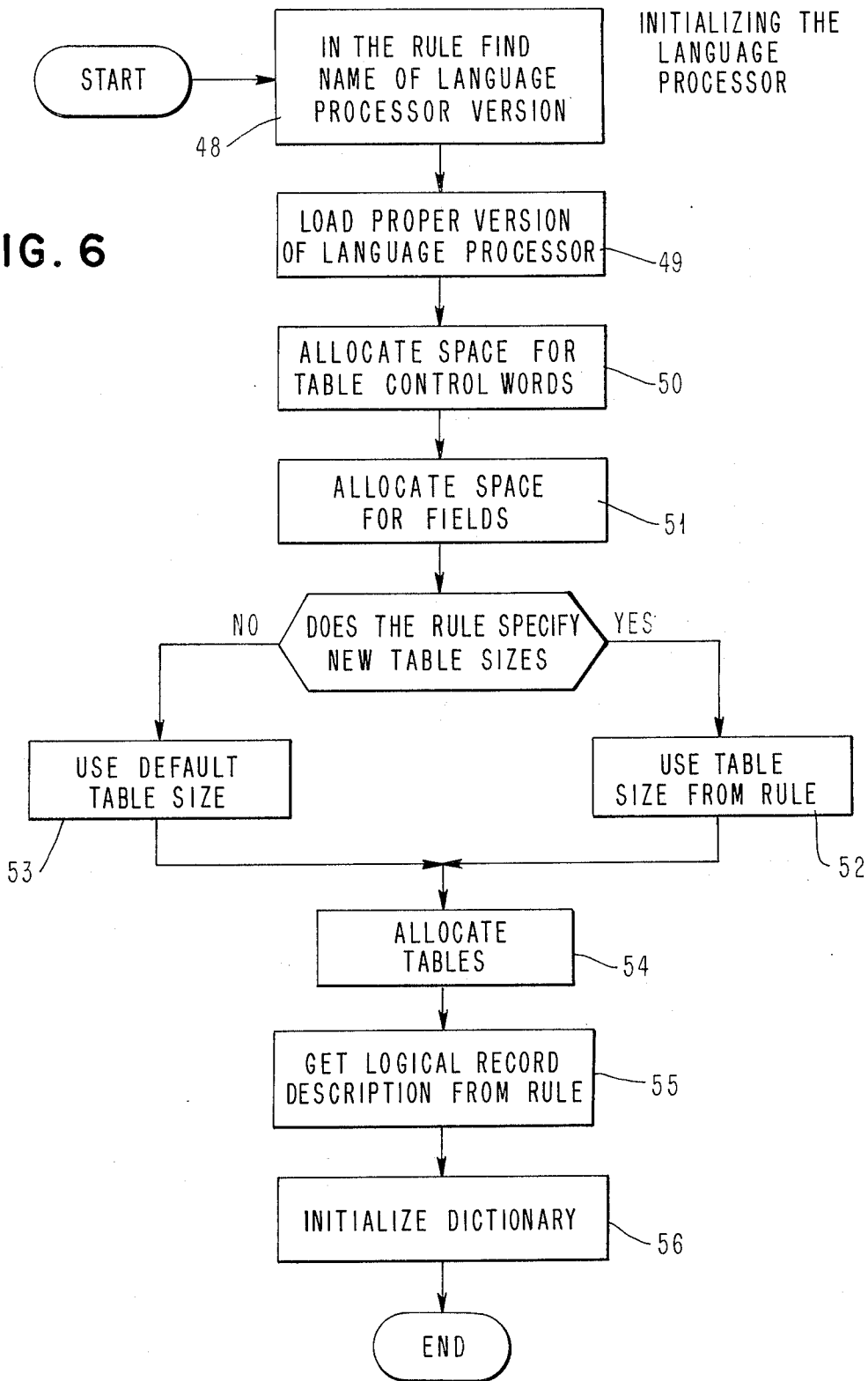


FIG. 7a

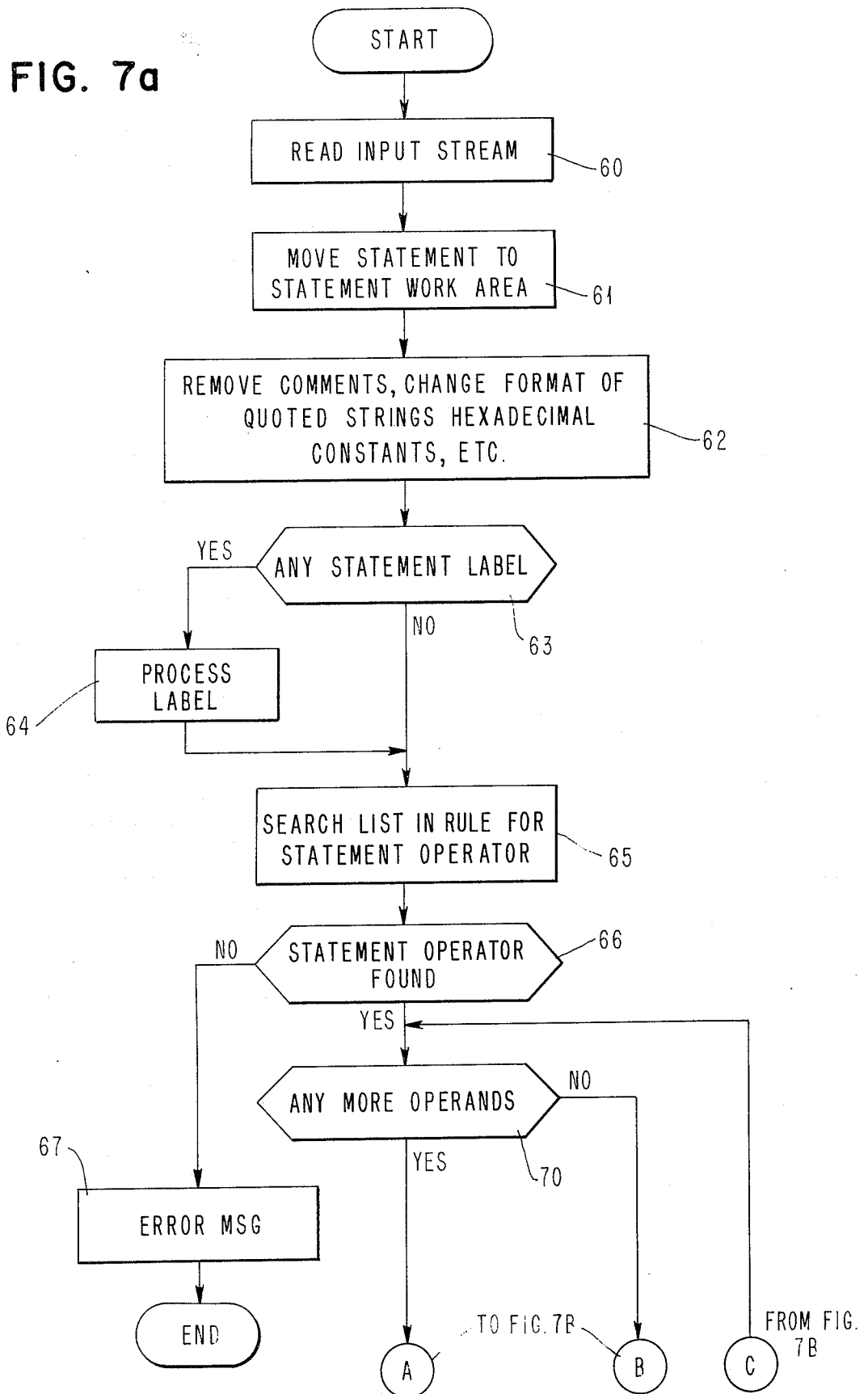


FIG. 7b

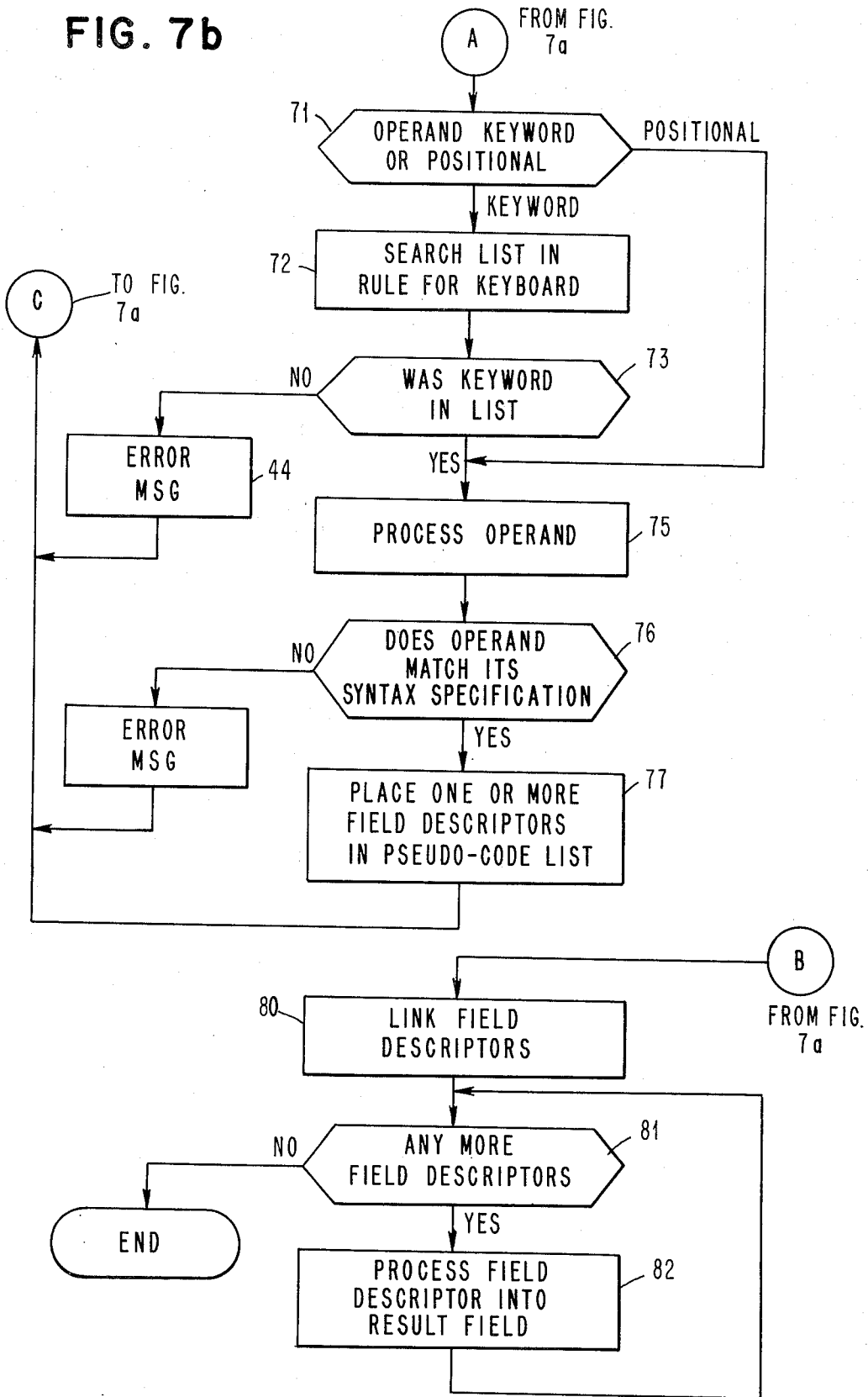


FIG. 8

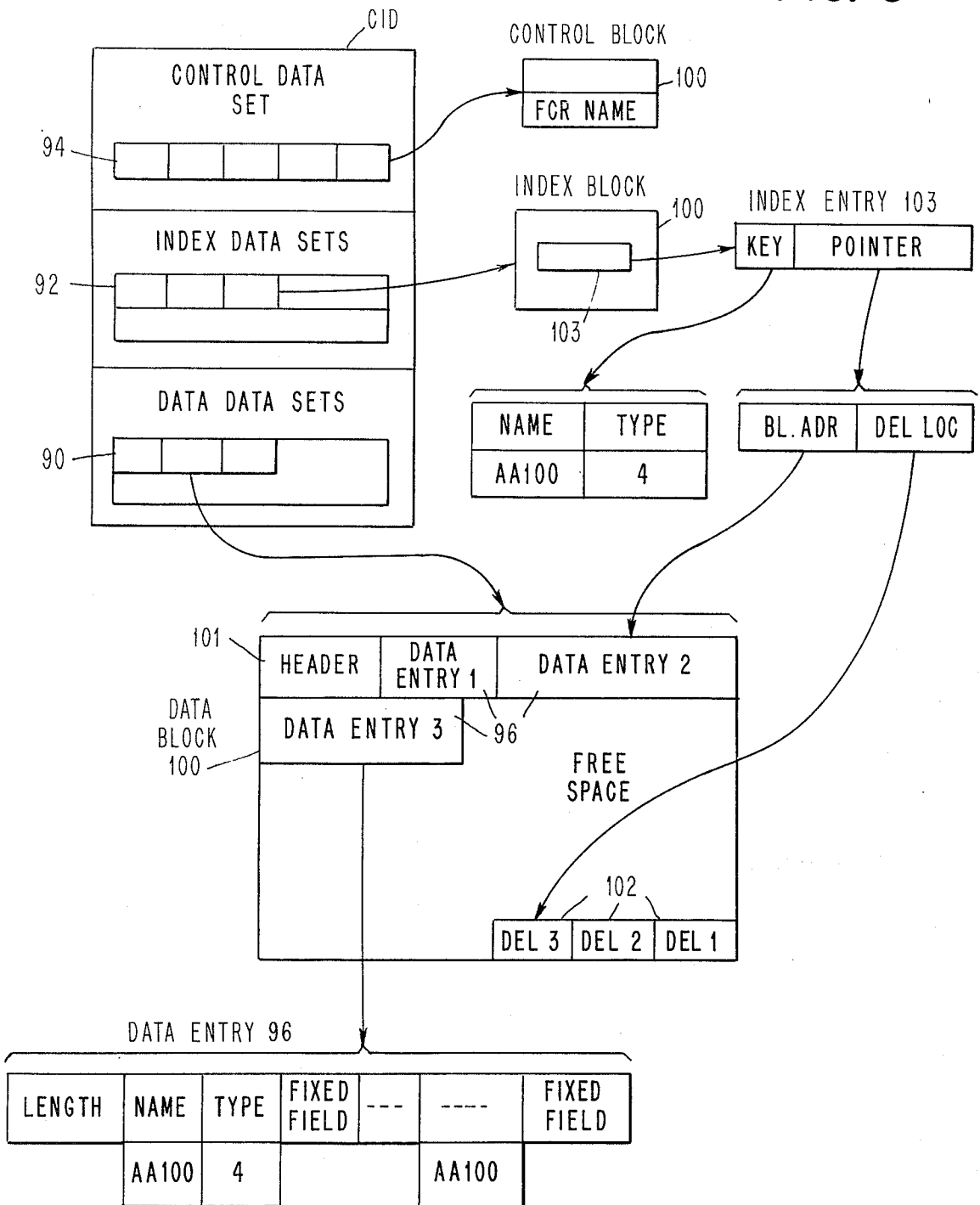


FIG. 9

GENERAL FORMAT (a)

LABEL	OPERATOR	[KEYWORD OPERAND 1 = VALUE 1], [KEYWORD OPERAND 2 = VALUE 2], ..., [KEYWORD OPERAND n = VALUE n]
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START OPERATOR (b)

SYMBOLIC RULE NAME	FMCDF	NL = NAME LENGTH
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FIELD DEFINING OPERATOR (c)

SYMBOLIC FIELD NAME	FMCFF	NO = FIELD NUMBER L = FIELD LENGTH [, VC = VARIATION CODE] [, CC = CONTENT CODE]
---------------------	-------	--

DATA ENTRY TYPE DEFINING OPERATOR (d)

SYMBOLIC DATA ENTRY TYPE	FMCIT	NO = DATA ENTRY TYPE NUMBER [, FF = ({ SYMBOLIC FIELD NAME } [...]) { FIELD NUMBER }
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INDEX DEFINING OPERATOR (e)

SYMBOLIC INDEX NAME	FMCIX	NO = INDEX NUMBER , FF = ({ SYMBOLIC FIELD NAME } [, ...]) { FIELD NUMBER } [, IT = ({ SYMBOLIC DATA ENTRY TYPE } [...]) { DATA }
---------------------	-------	--

EXTENDED FIELD DEFINING OPERATOR (f)

NAME	UFIELD	NO = FIELD NUMBER L = FIELD LENGTH [, VC = VARIATION CODE] [, SYN = ALLOWABLE SYNTAX]
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ENDING OPERATOR (g)

FMCEND

FIG. 10

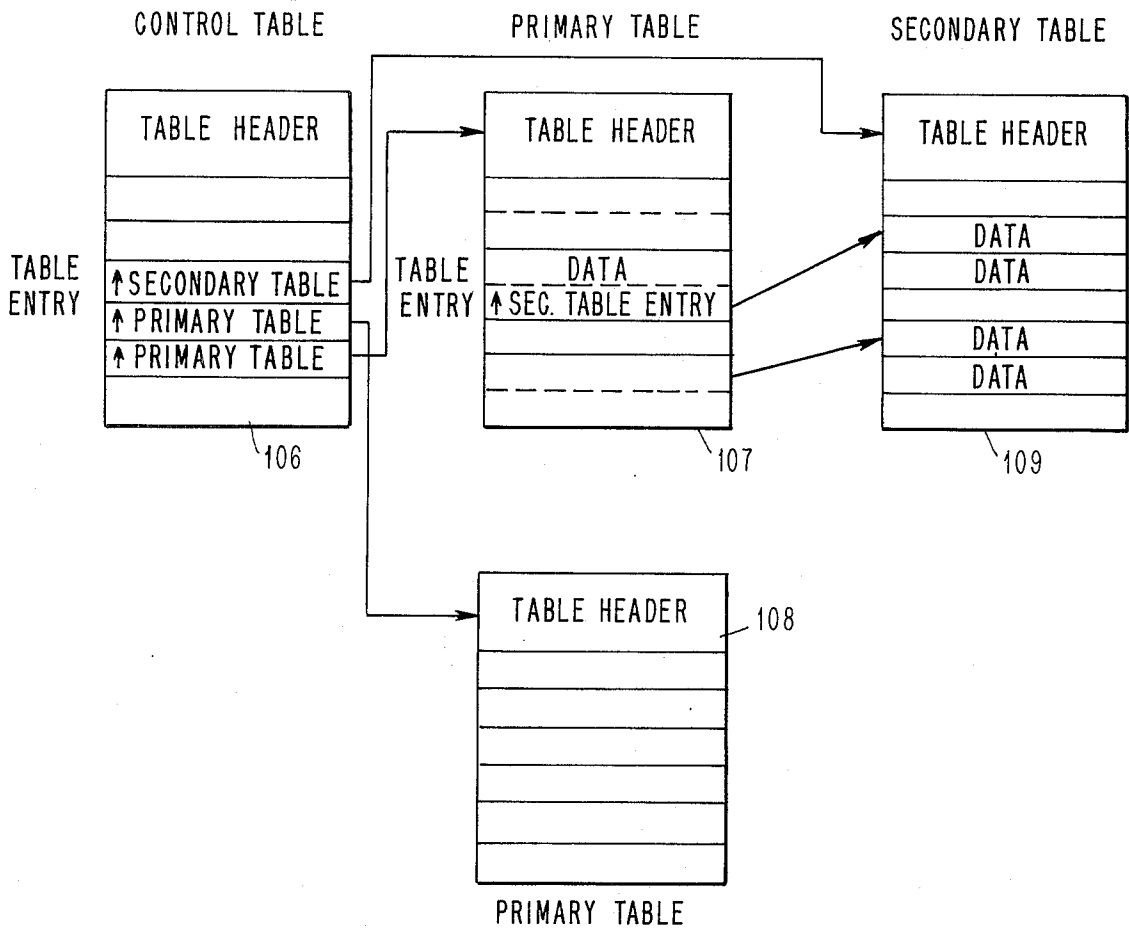


FIG. 14

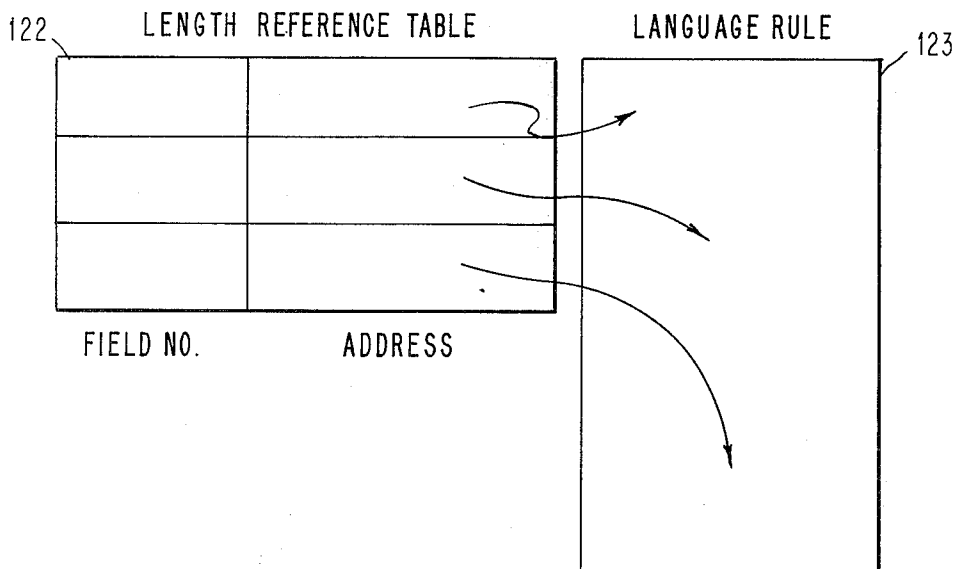
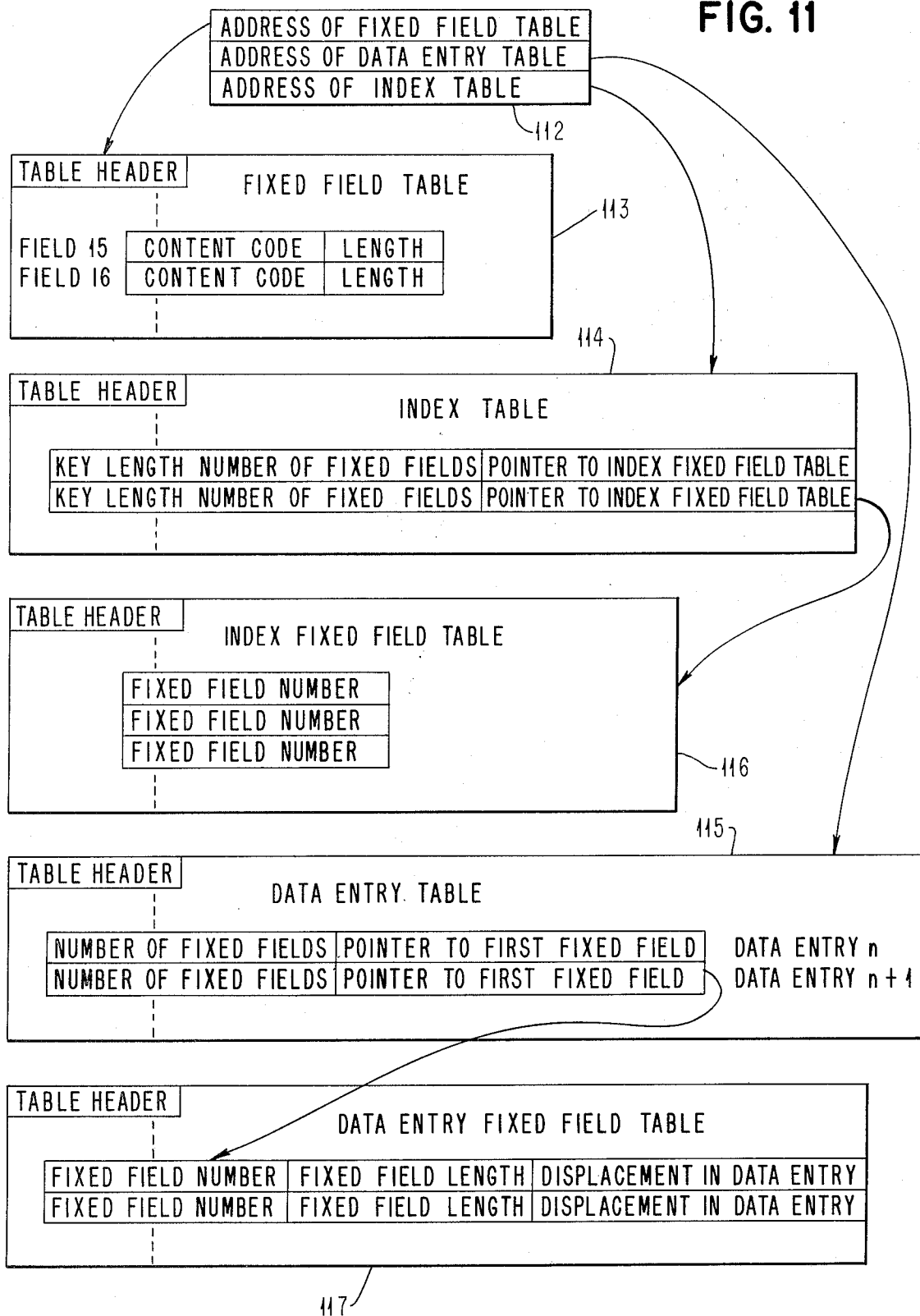


FIG. 11



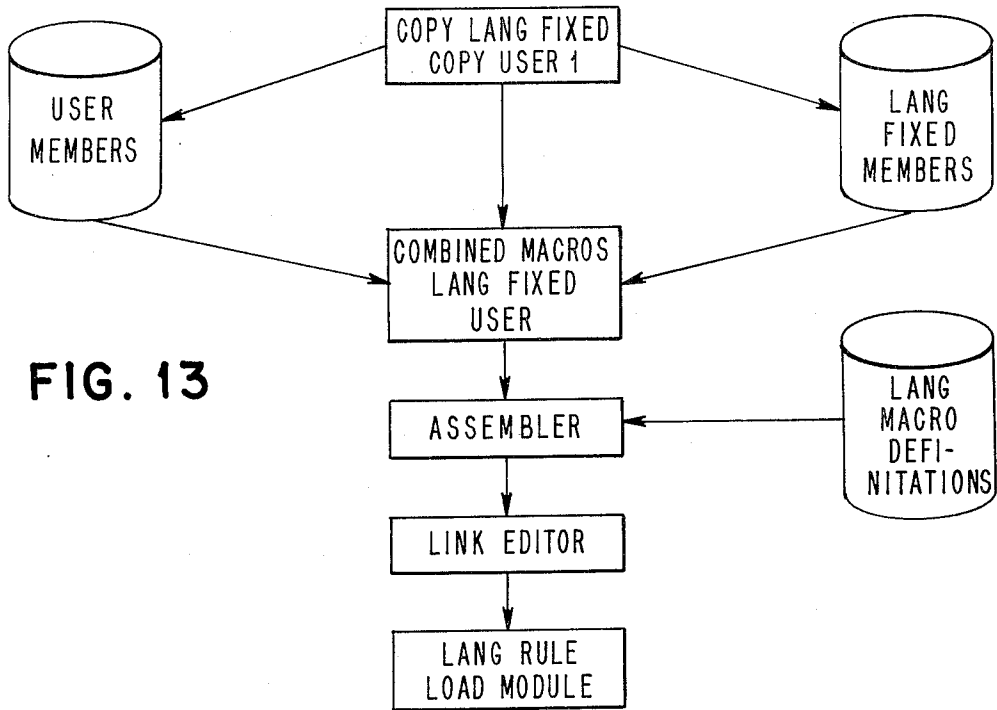
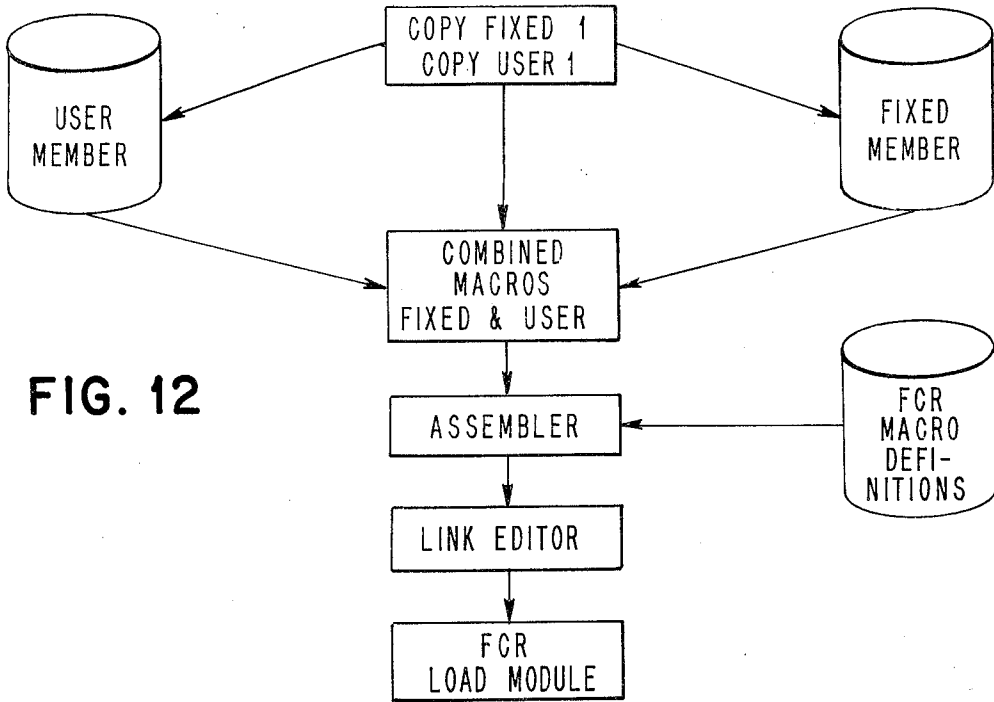
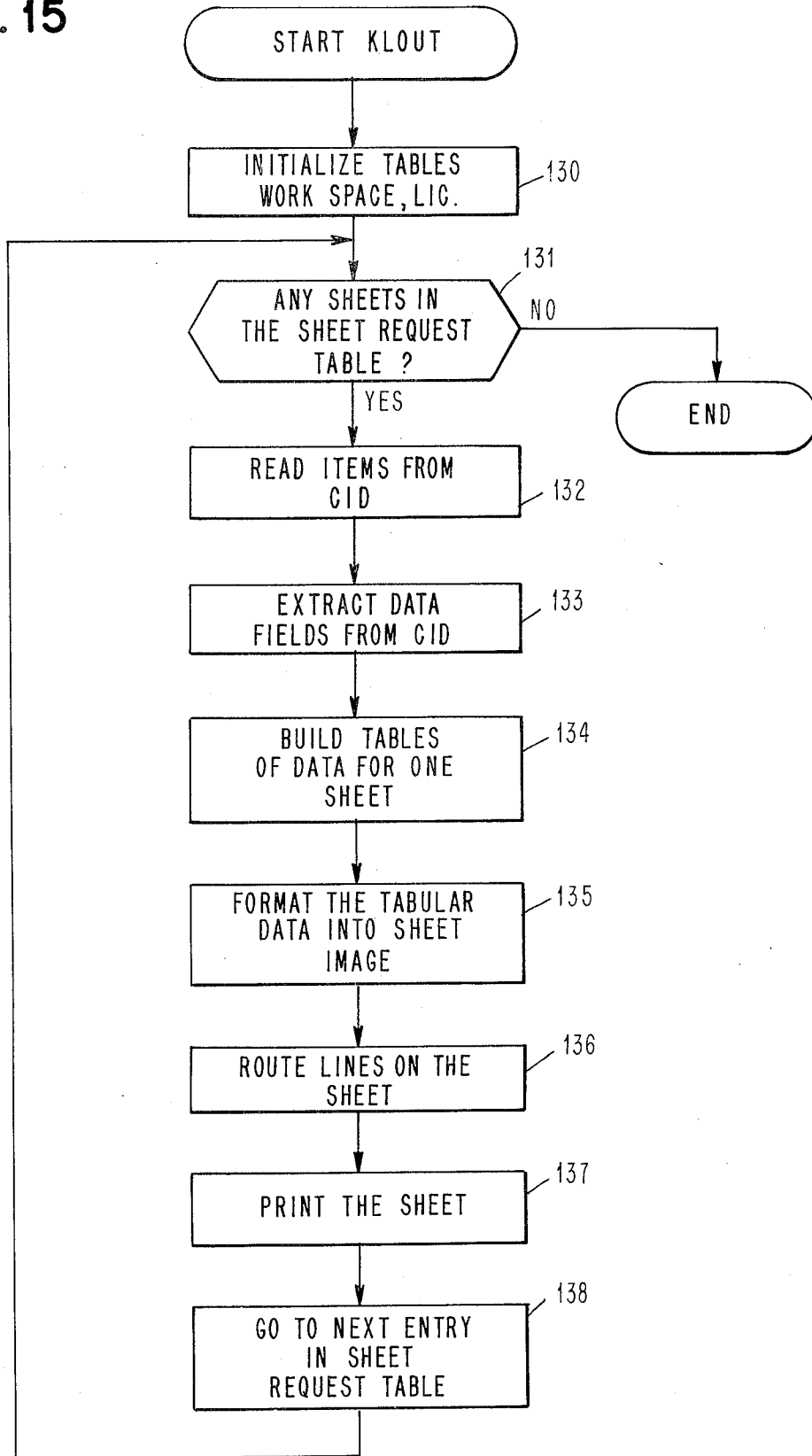


FIG. 15



INITIALIZING THE FIELD ACCESS TABLE

FIG. 16

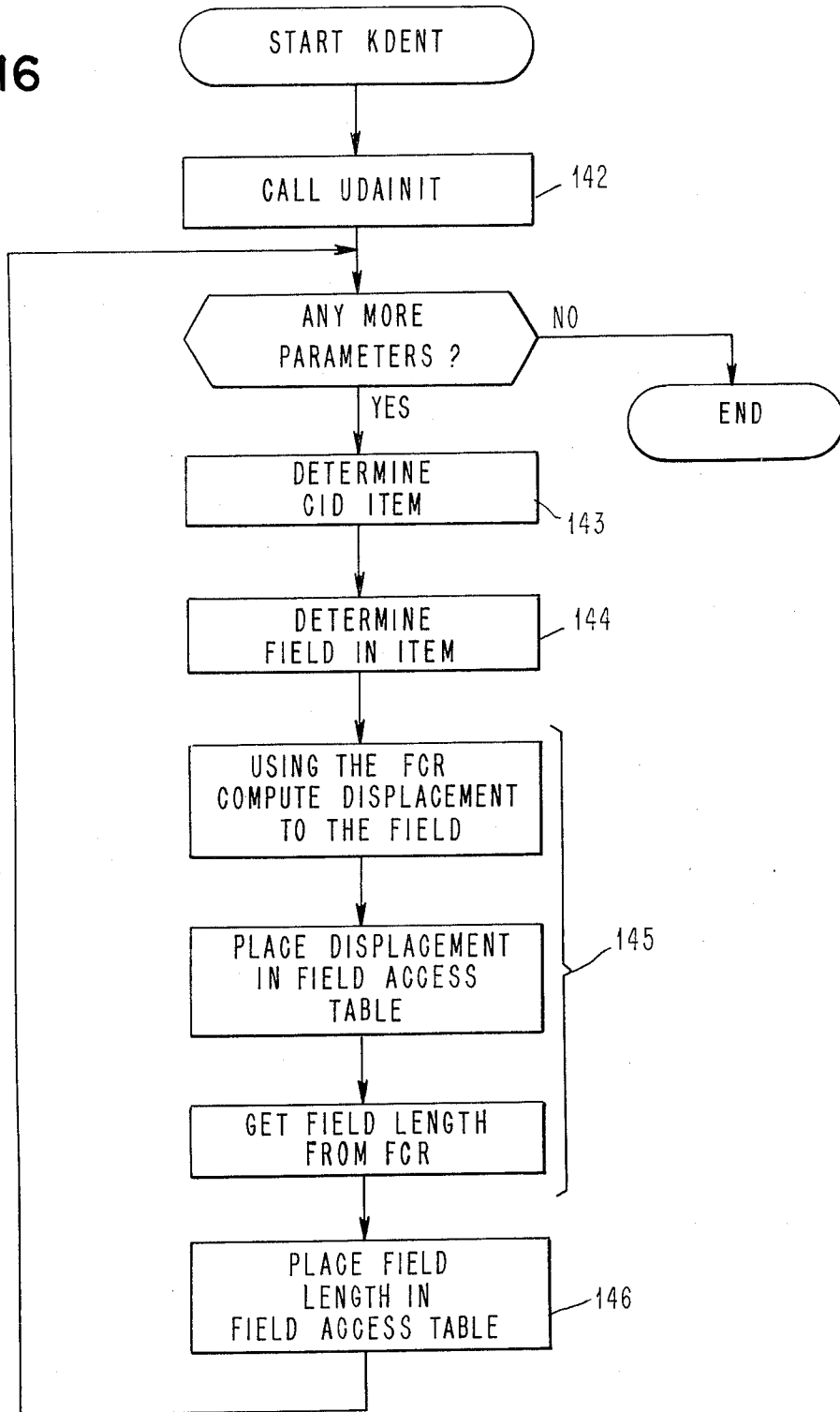


FIG. 17

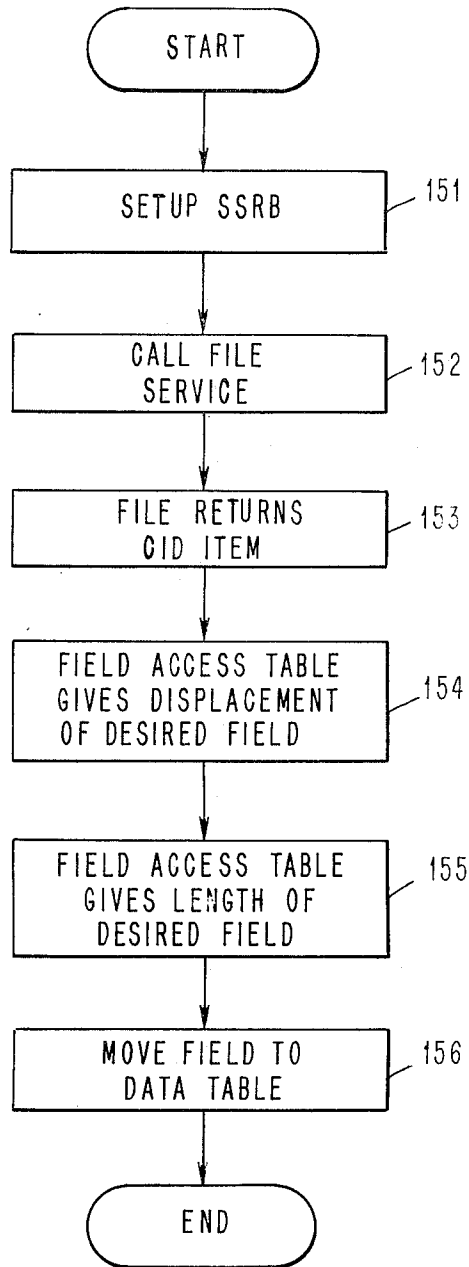


FIG. 18

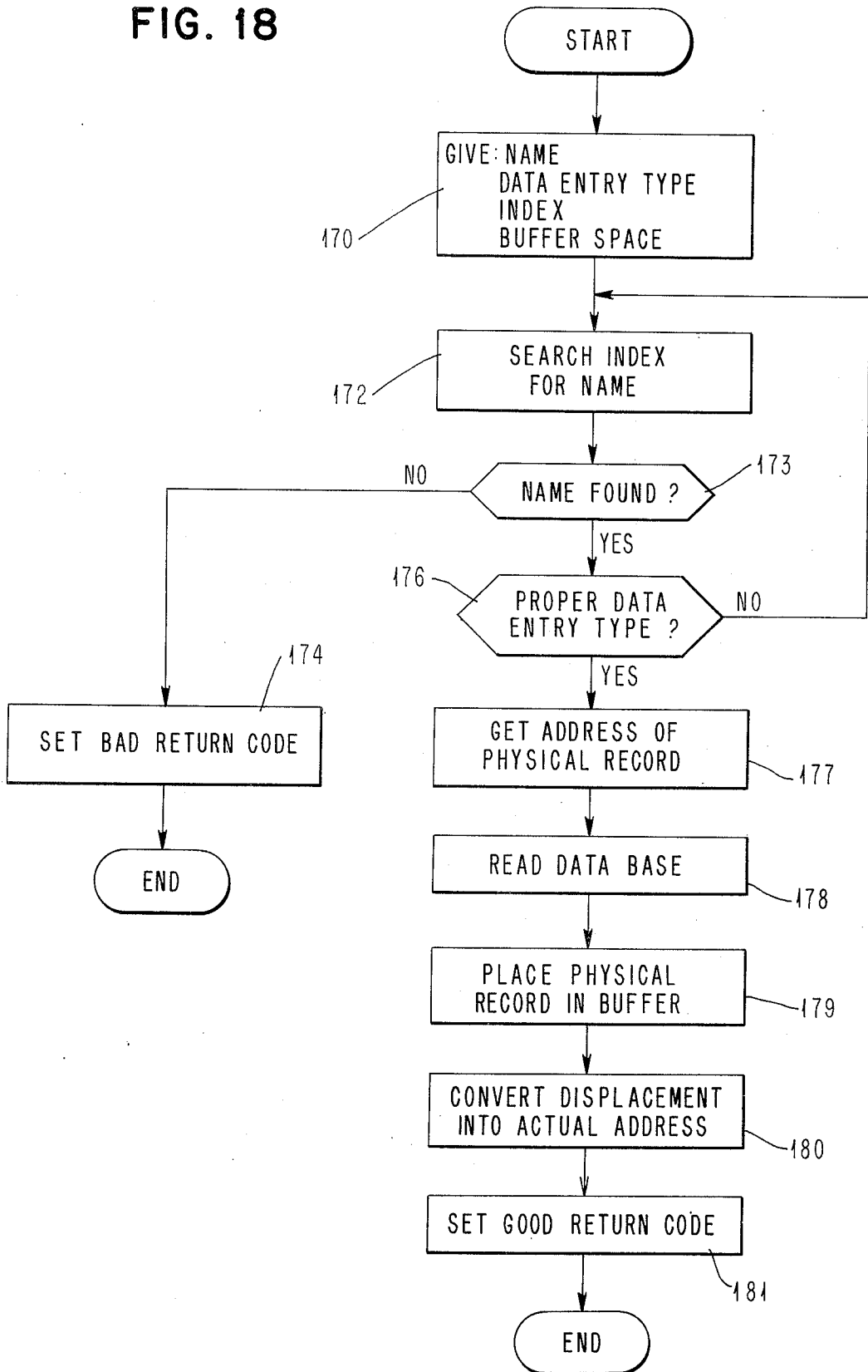


FIG. 19

