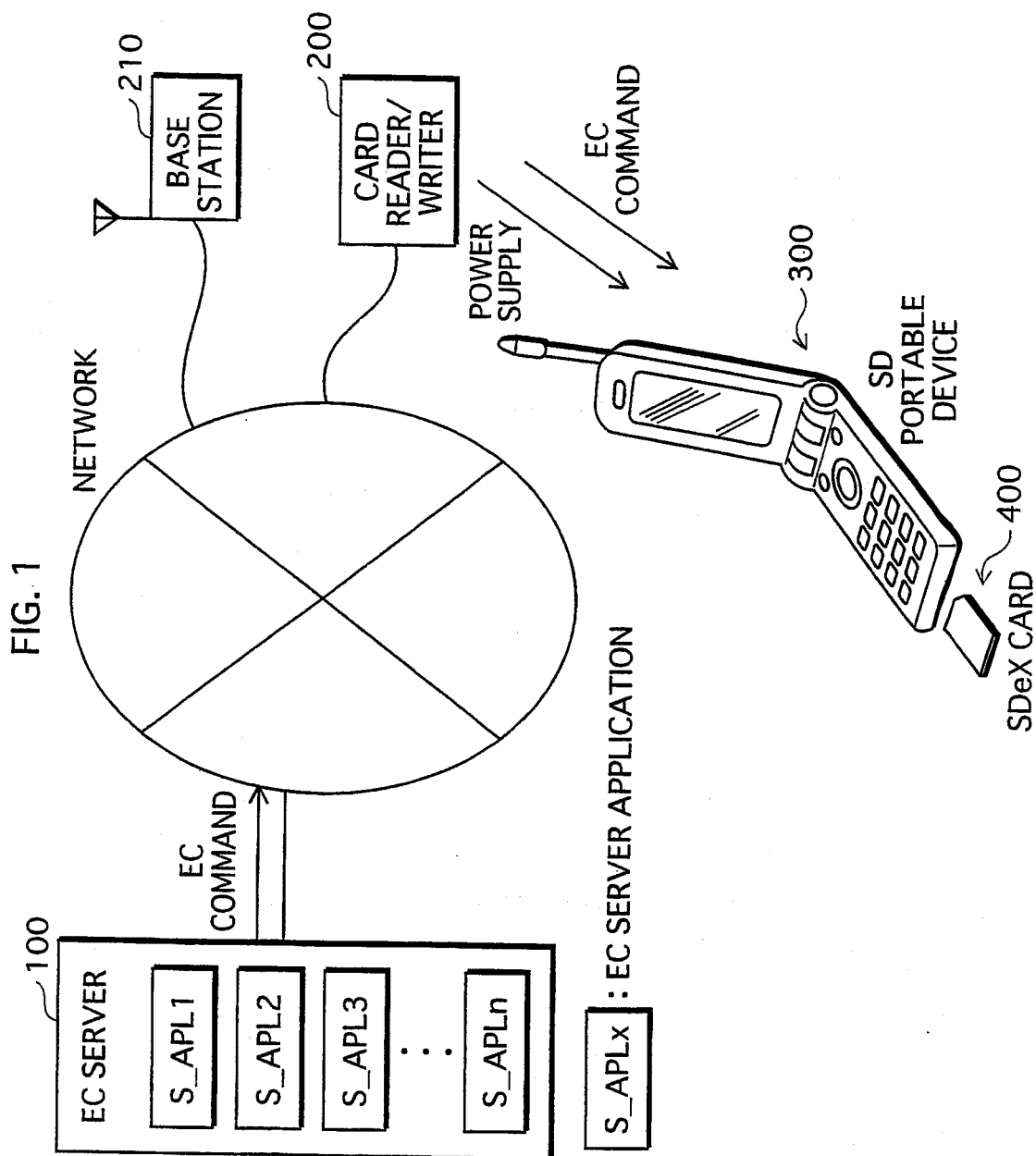




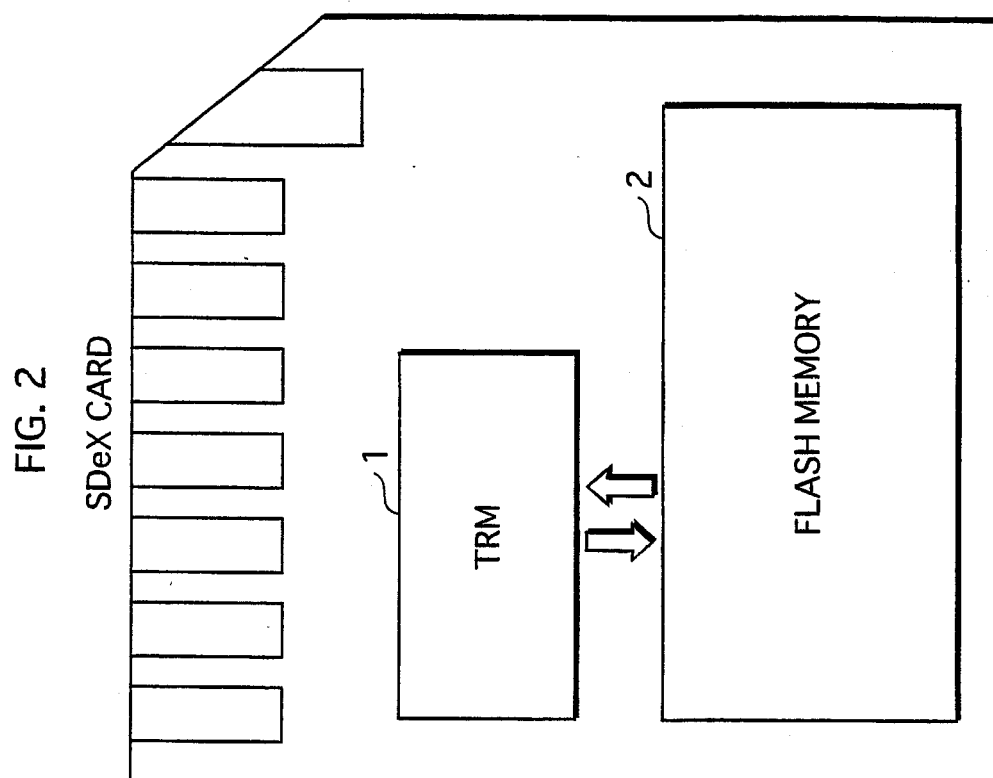


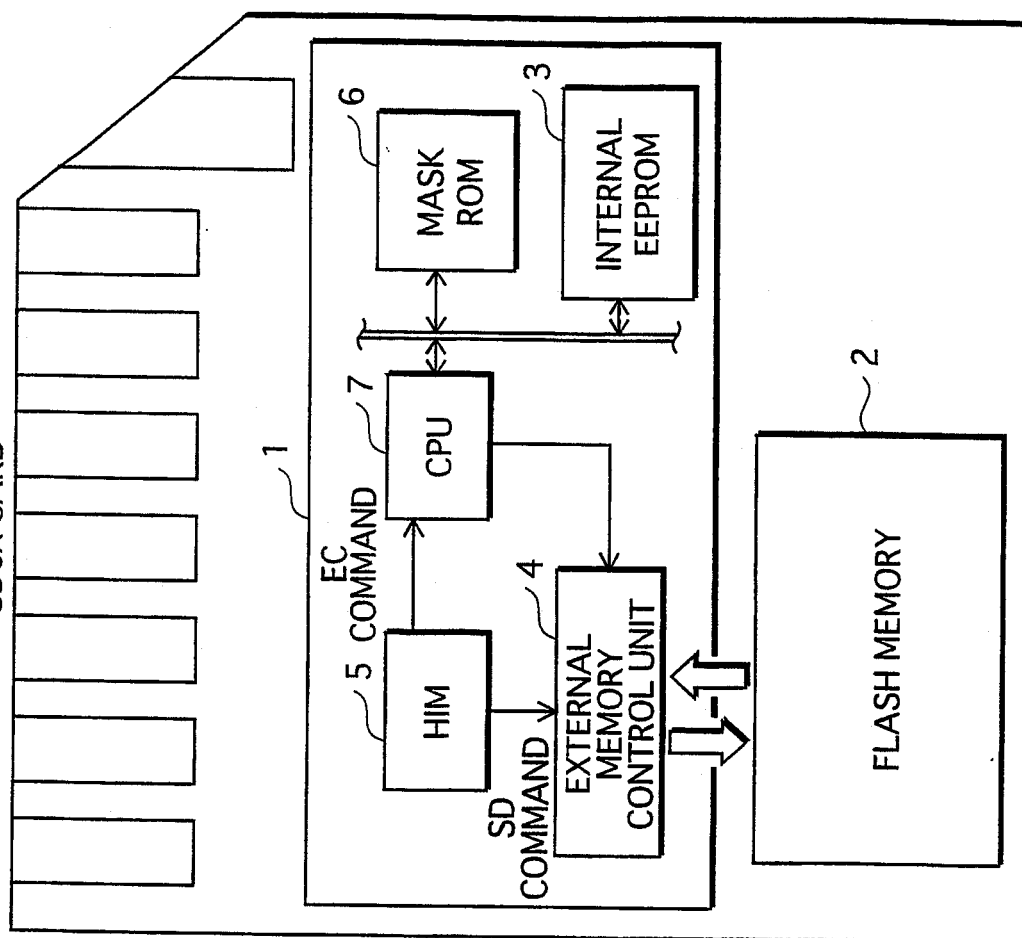
FIG. 3
SDeX CARD

FIG.4

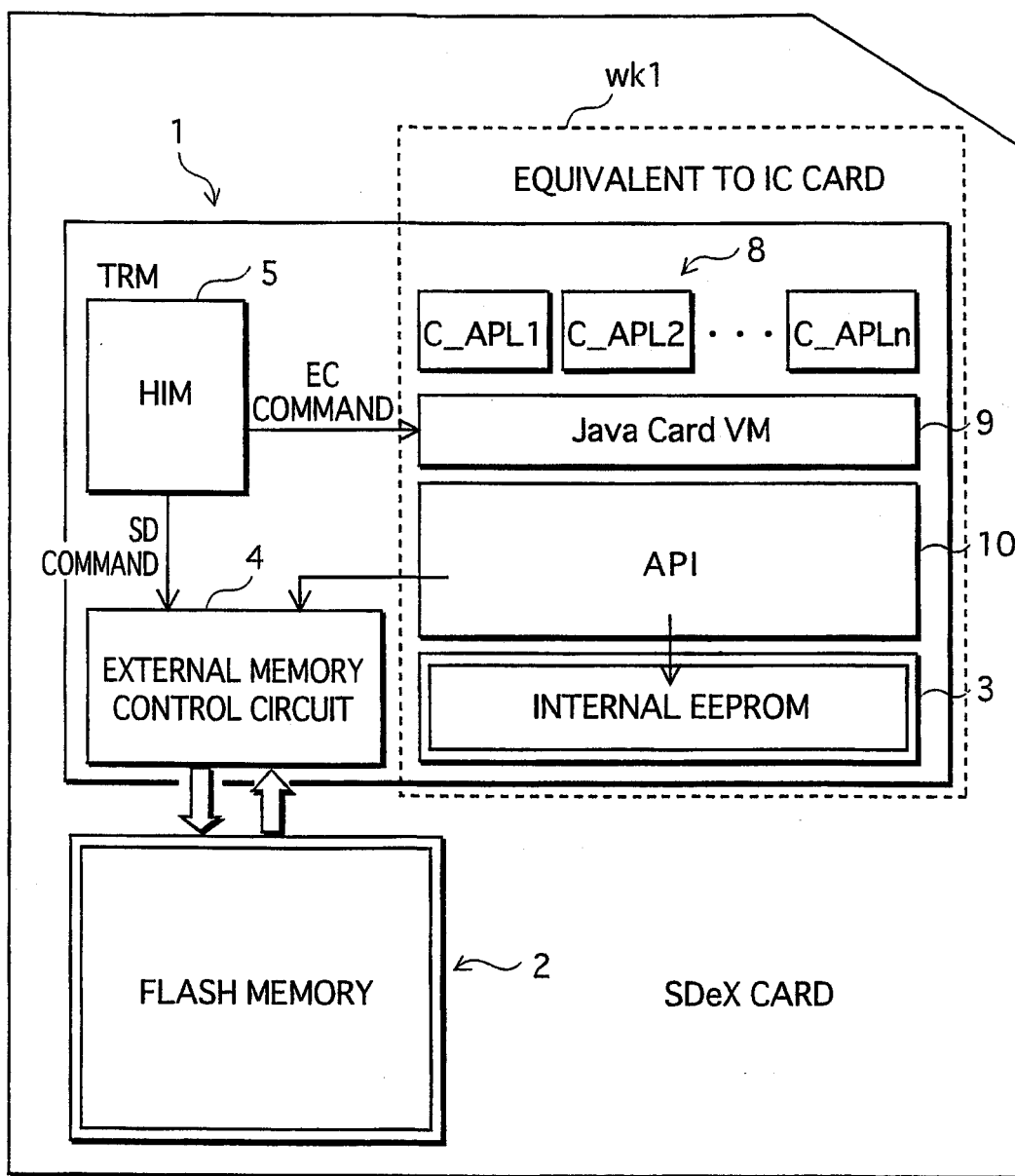


FIG.5

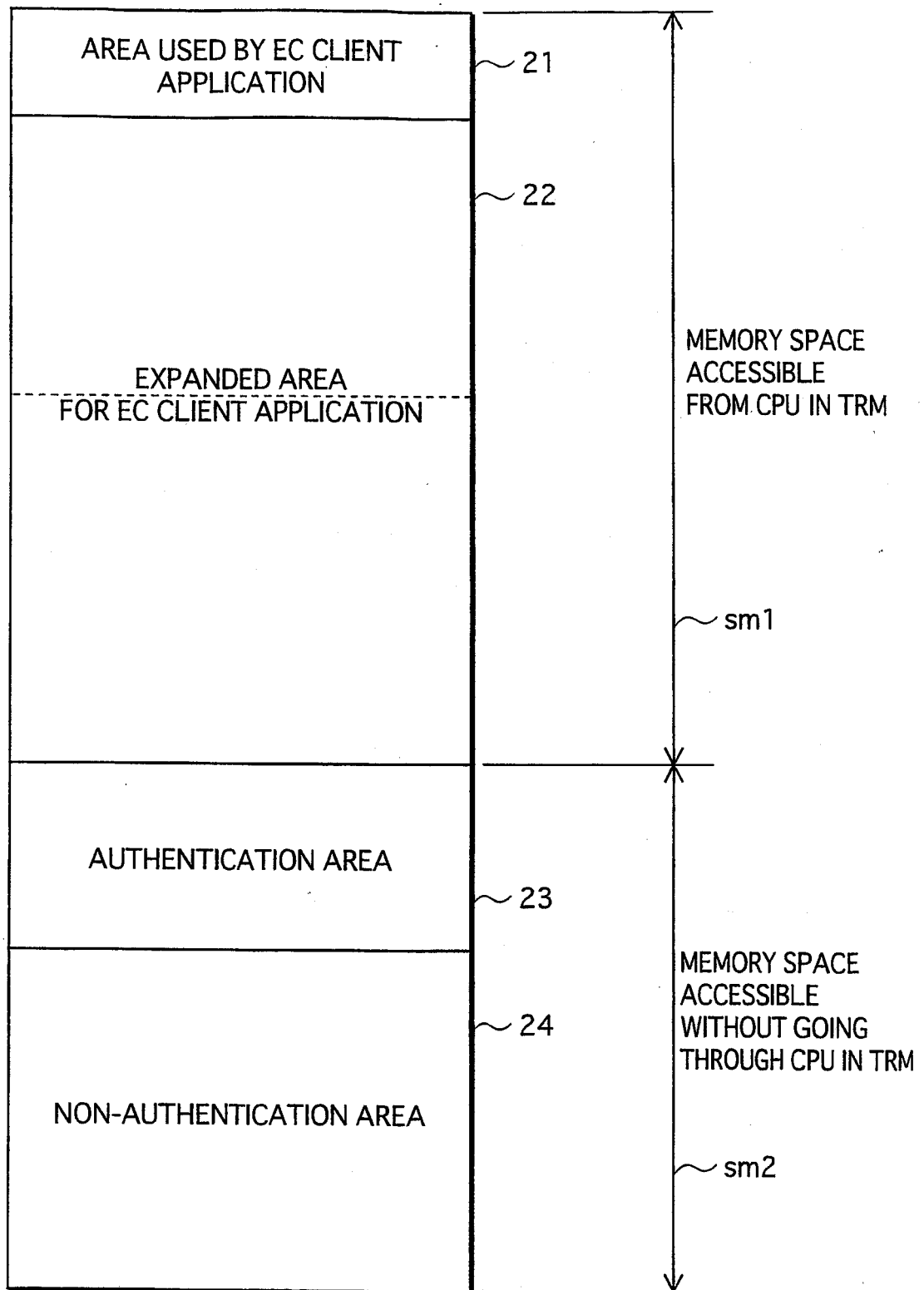


FIG. 6

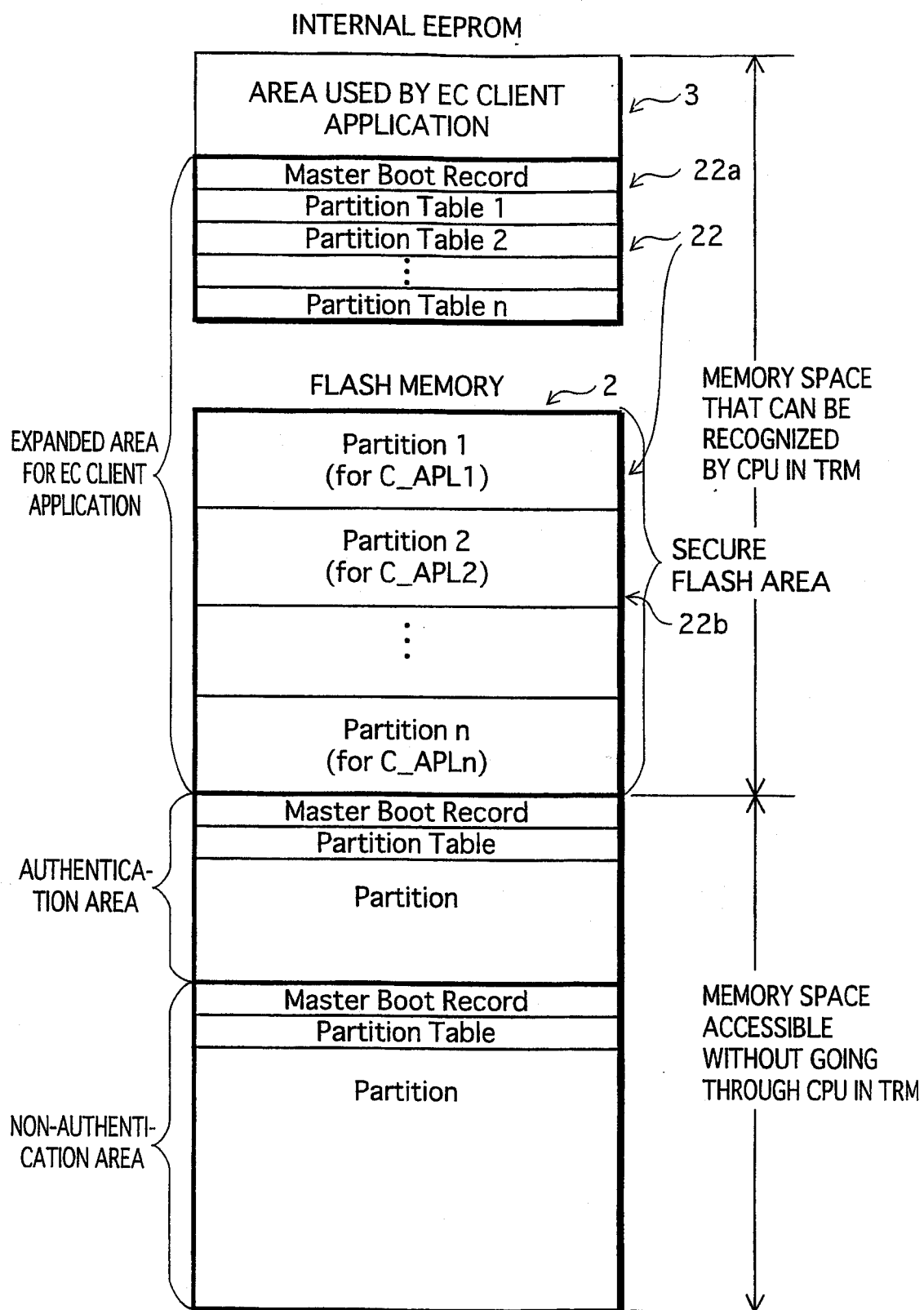
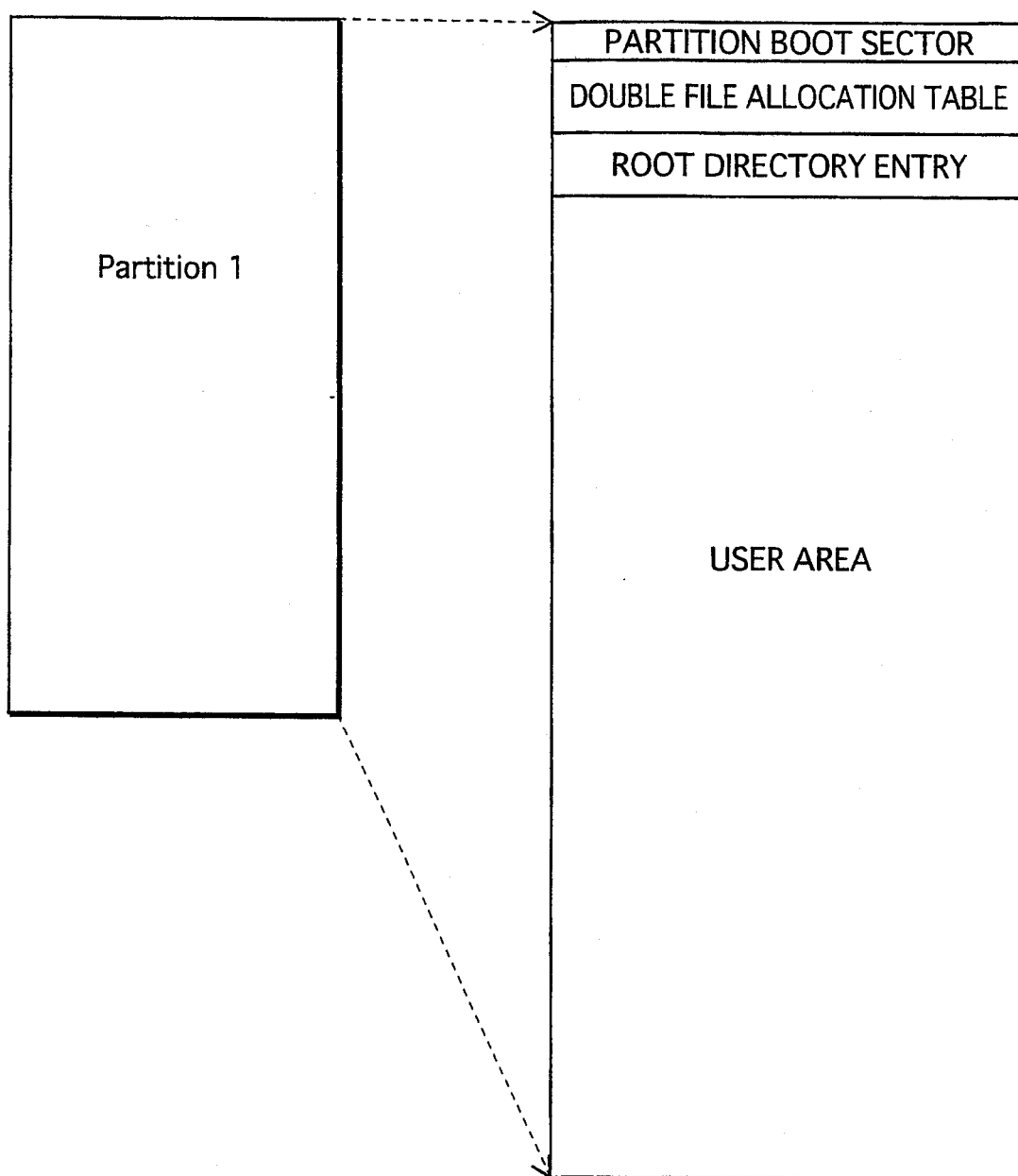


FIG.7



reserved	FAT ENTRY 007	FAT ENTRY 008	FAT ENTRY 009	FAT ENTRY 00A	FAT ENTRY 00B	FAT ENTRY 00C	FAT ENTRY 00D	FAT ENTRY 00E	FAT ENTRY 00F	FAT ENTRY 010	FAT ENTRY 011	FAT ENTRY 012	FAT ENTRY 013	FAT ENTRY 014	FAT ENTRY 015	FAT ENTRY 016	FAT ENTRY 017	FAT ENTRY 018	FAT ENTRY 019	FAT ENTRY 01A	FAT ENTRY 01B	FAT ENTRY 01C	FAT ENTRY 01D	FAT ENTRY 01E	FAT ENTRY 01F	FAT ENTRY 020	FAT ENTRY 021	FAT ENTRY 022
----------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------

ff1

FILE ALLOCATION
TABLE
FILE ALLOCATION
TABLE (AUXILIARY)

FIG.8A

DOUBLE FILE
ALLOCATION
TABLE

FIG.8B

FILE NAME	FILE EXTENSION	FIRST CLUSTER NUMBER	FILE ATTRIBUTE	TIME OF STORING	DATE OF STORING	FILE LENGTH
--------------	-------------------	----------------------------	-------------------	-----------------------	-----------------------	----------------

FILE ENTRY
FILE ENTRY
FILE ENTRY
⋮

ROOT
DIRECTORY
ENTRY

FIG.8C

CLUSTER 002	CLUSTER 003	CLUSTER 004	CLUSTER 005	CLUSTER 006	CLUSTER 007	CLUSTER 008
CLUSTER 009	CLUSTER 00A	CLUSTER 00B	CLUSTER 00C	CLUSTER 00D	CLUSTER 00E	CLUSTER 00F
CLUSTER 010	CLUSTER 011	CLUSTER 012	CLUSTER 013	CLUSTER 014	CLUSTER 015	CLUSTER 016
CLUSTER 017	CLUSTER 018	CLUSTER 019	CLUSTER 01A	CLUSTER 01B	CLUSTER 01C	CLUSTER 01D
CLUSTER 01E	CLUSTER 01F	CLUSTER 020	CLUSTER 021	CLUSTER 022		

ff2

USER AREA

FIG. 9

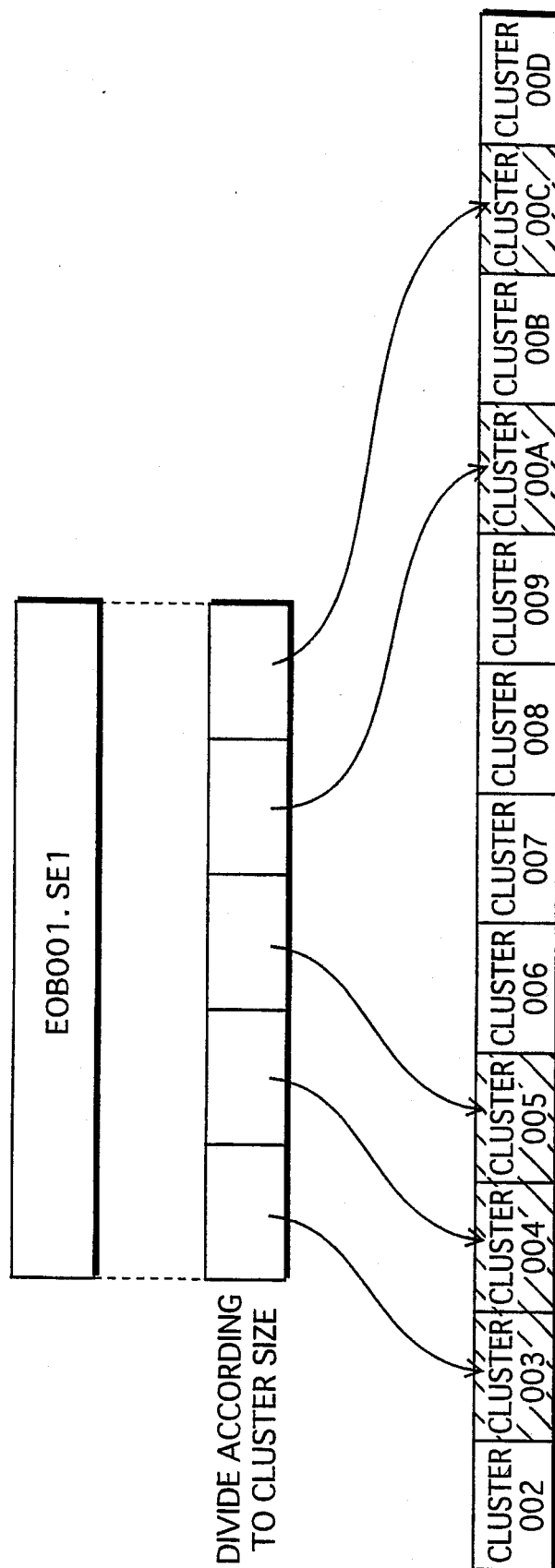


FIG. 10

ROOT DIRECTORY ENTRY

FILE NAME	FILE EXTENSION	FIRST CLUSTER NUMBER
EOB001	SE1	003

fk1

FAT ENTRY 002-006

reserved	FAT ENTRY 002 (007)	FAT ENTRY 003 (004)	FAT ENTRY 004 (005)	FAT ENTRY 005 (00A)	FAT ENTRY 006
----------	---------------------	---------------------	---------------------	---------------------	---------------

fk3

fk2

fk4

CLUSTER 002-006

③

②

①

CLUSTER 002	CLUSTER 003	CLUSTER 004	CLUSTER 005	CLUSTER 006
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fk5

FAT ENTRY 007-00D

FAT ENTRY 007	FAT ENTRY 008	FAT ENTRY 009	FAT ENTRY 00A (00C)	FAT ENTRY 00B	FAT ENTRY 00C (FFF)	FAT ENTRY 00D
---------------	---------------	---------------	---------------------	---------------	---------------------	---------------

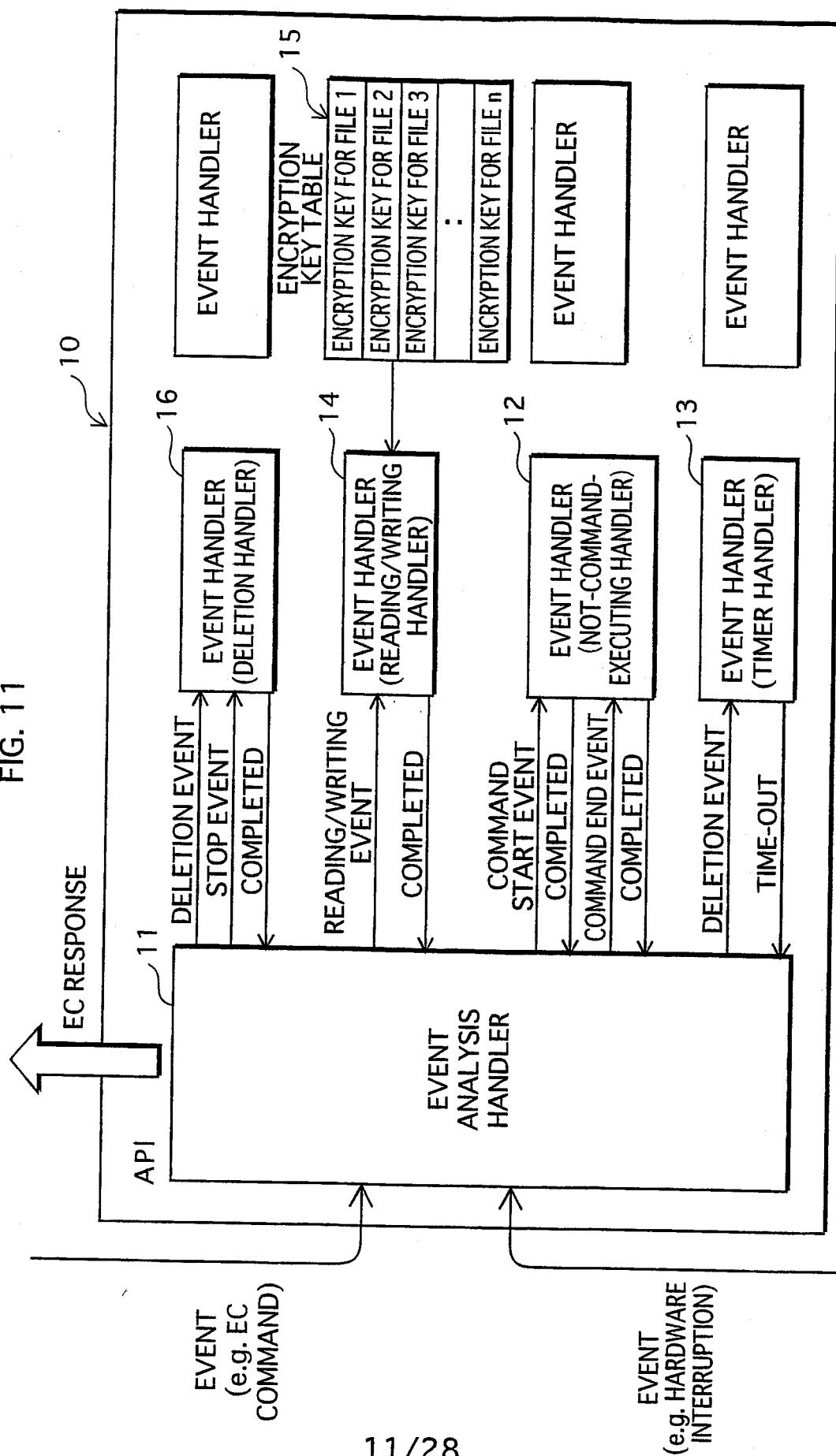
CLUSTER 007-00D

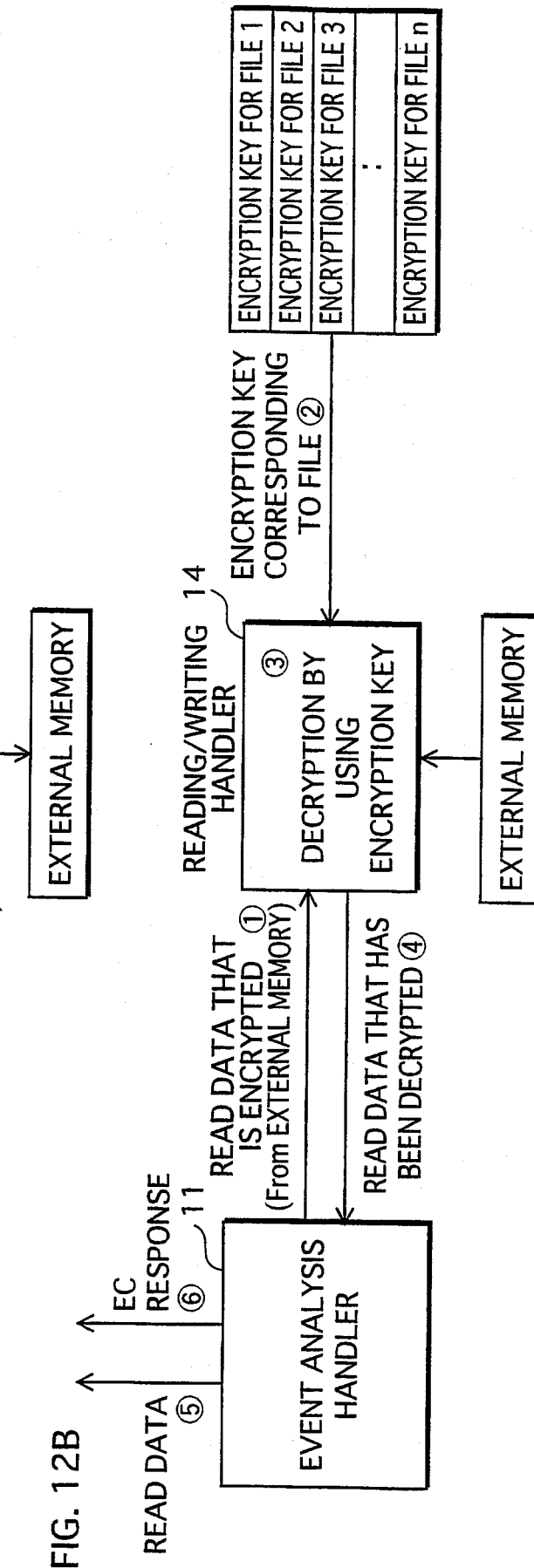
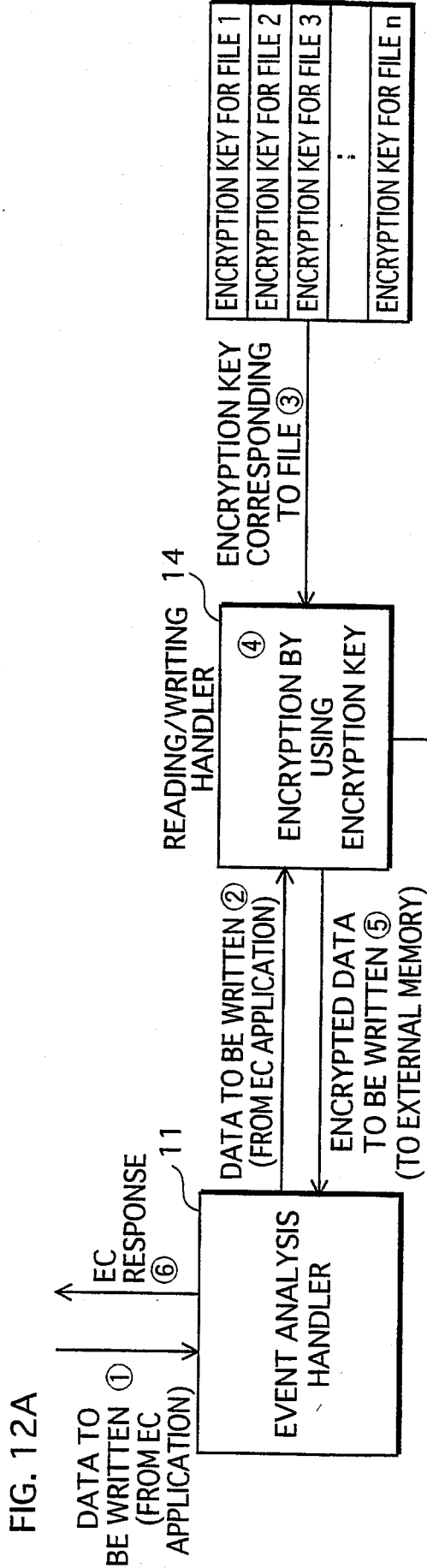
⑤

④

CLUSTER 007	CLUSTER 008	CLUSTER 009	CLUSTER 00A	CLUSTER 00B	CLUSTER 00C	CLUSTER 00D
-------------	-------------	-------------	-------------	-------------	-------------	-------------

FIG. 11





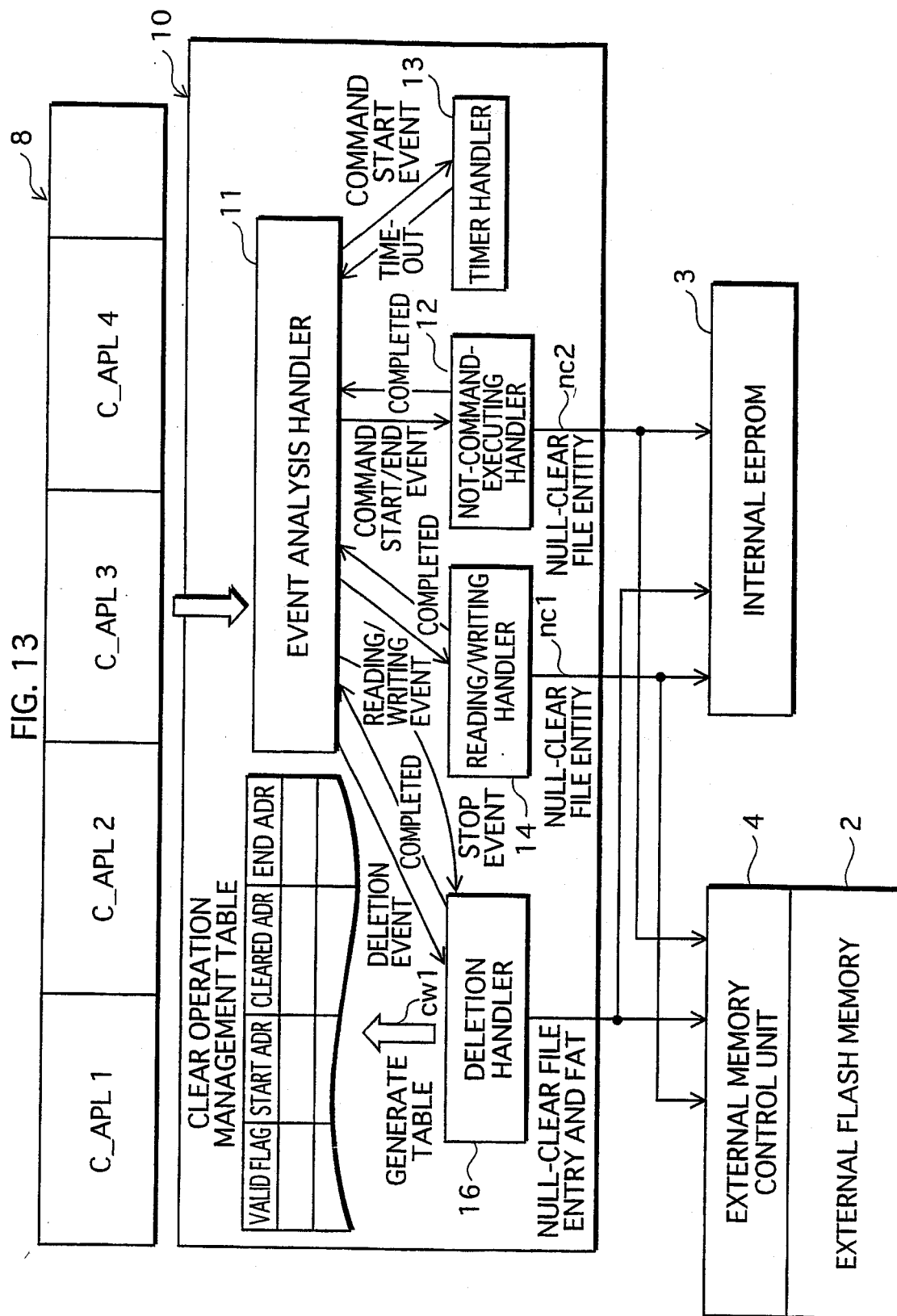


FIG. 14

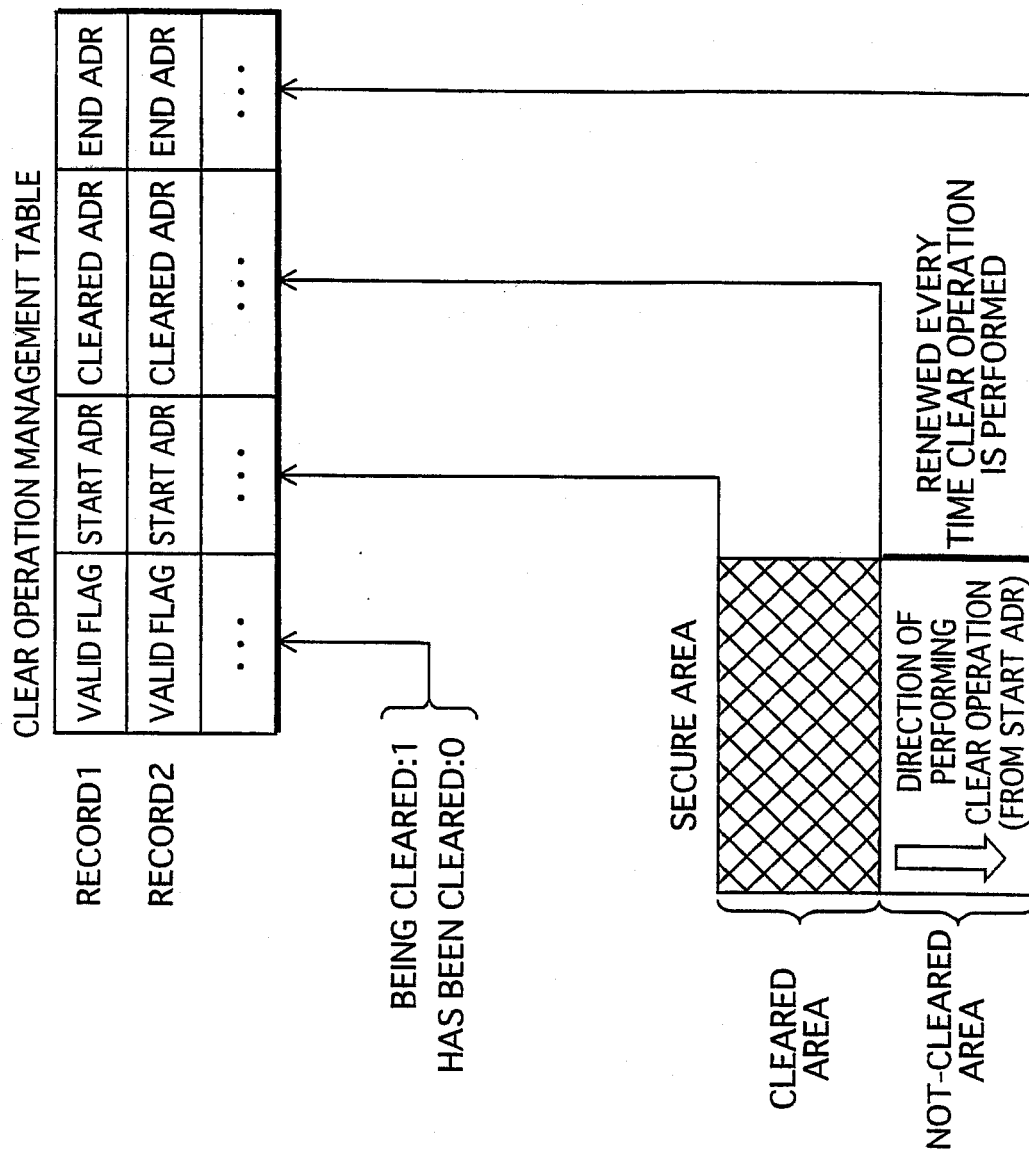


FIG. 15

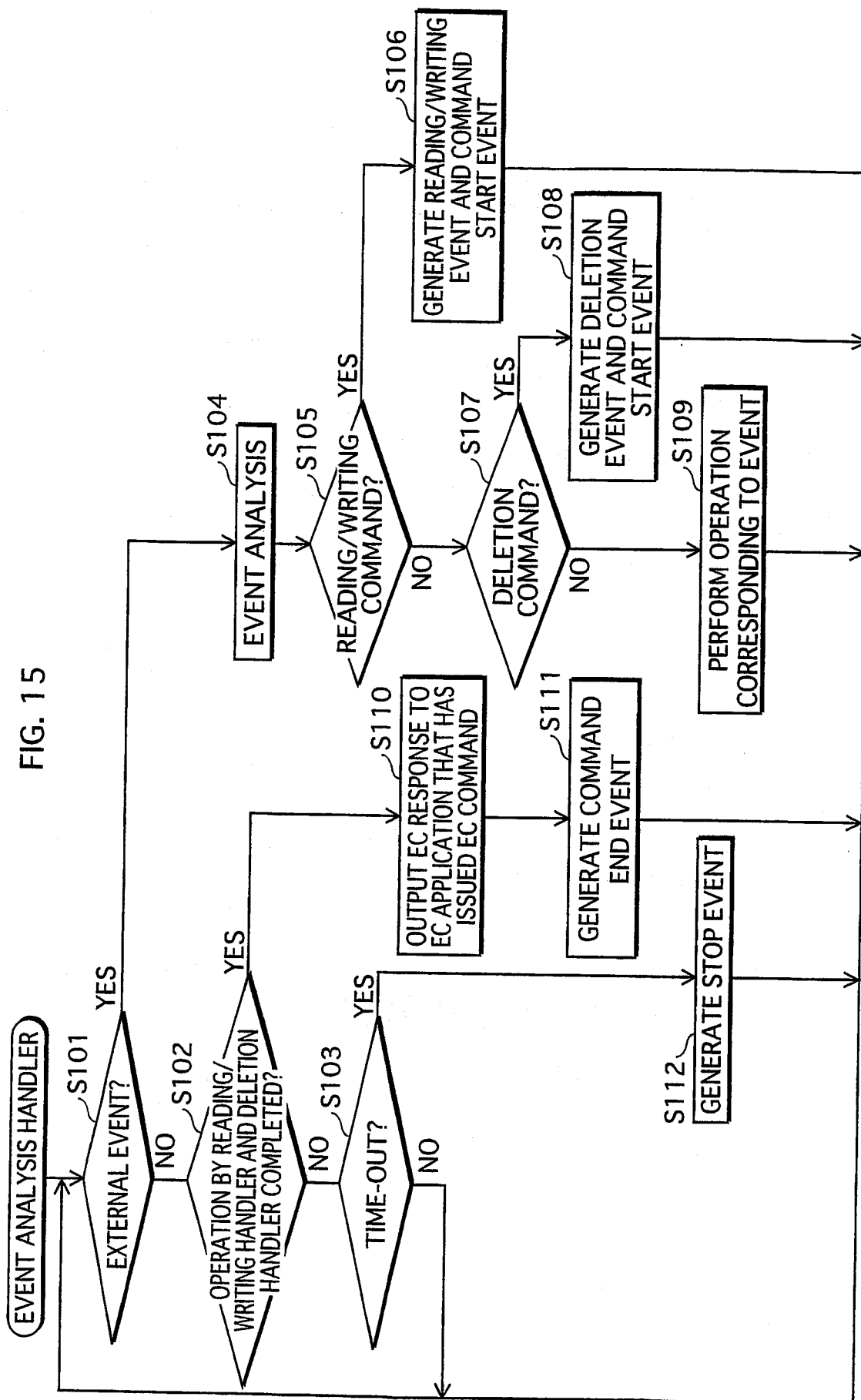


FIG. 16

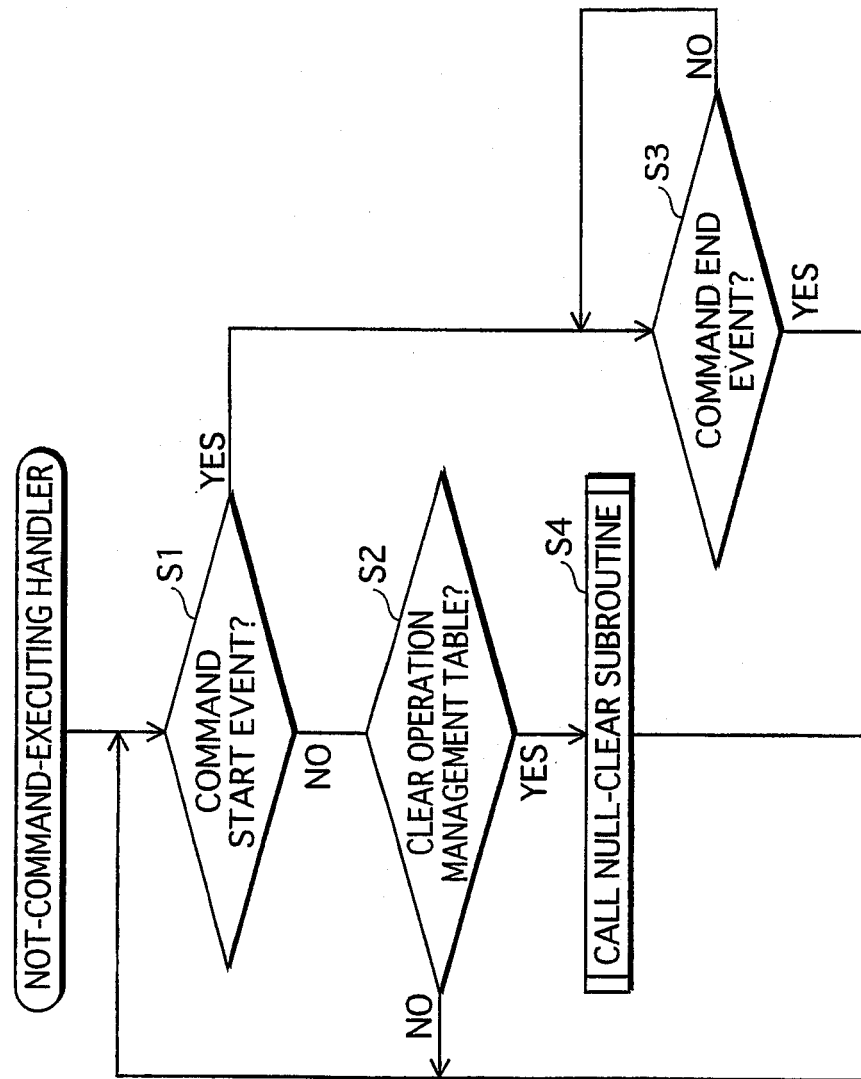


FIG.17

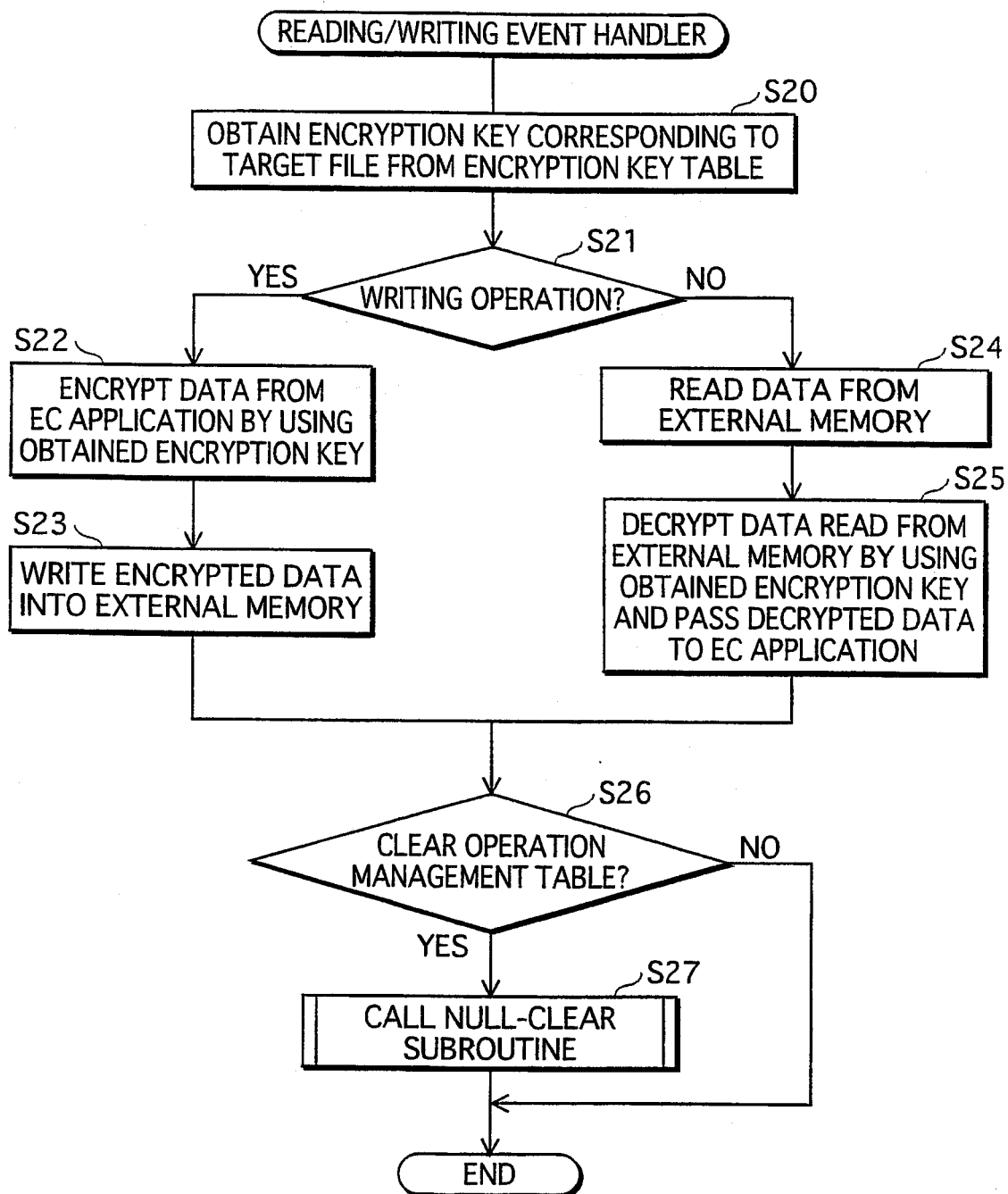
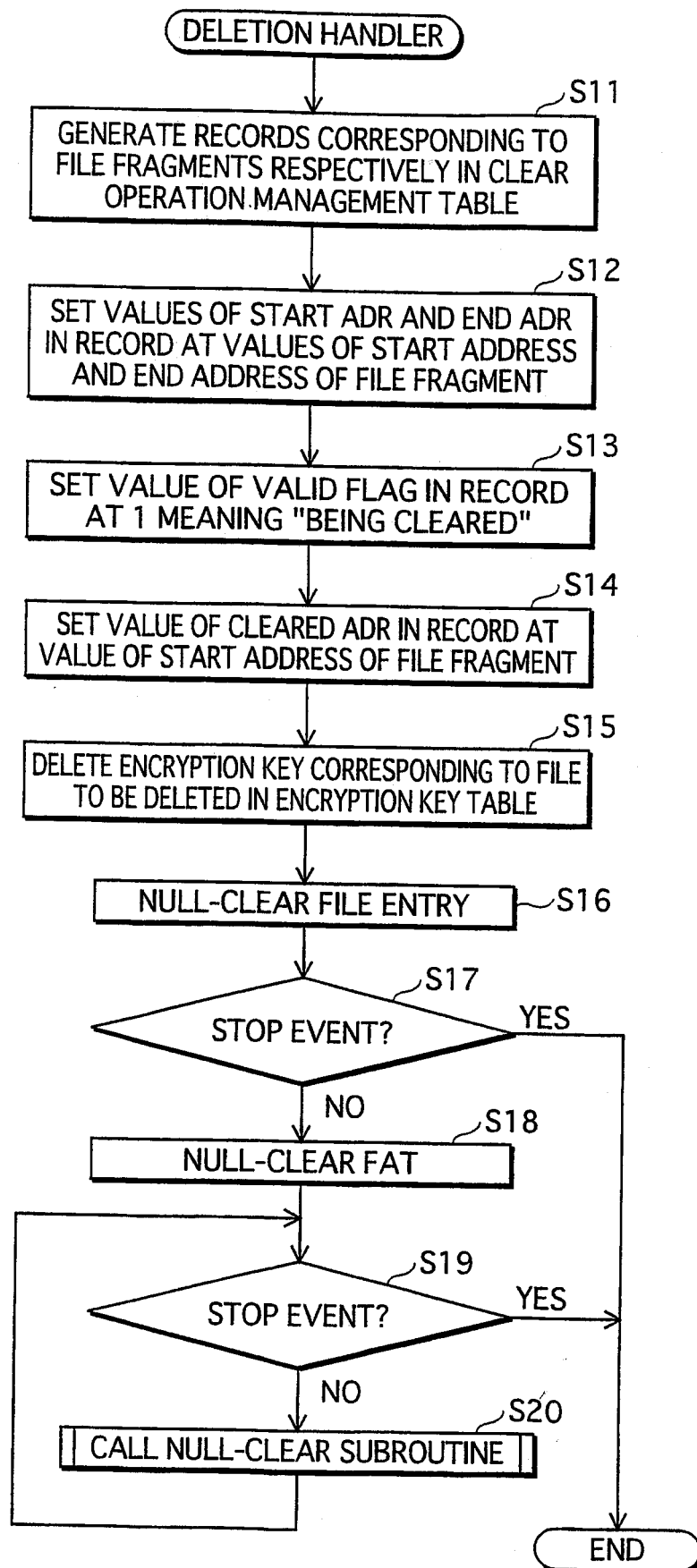


FIG.18



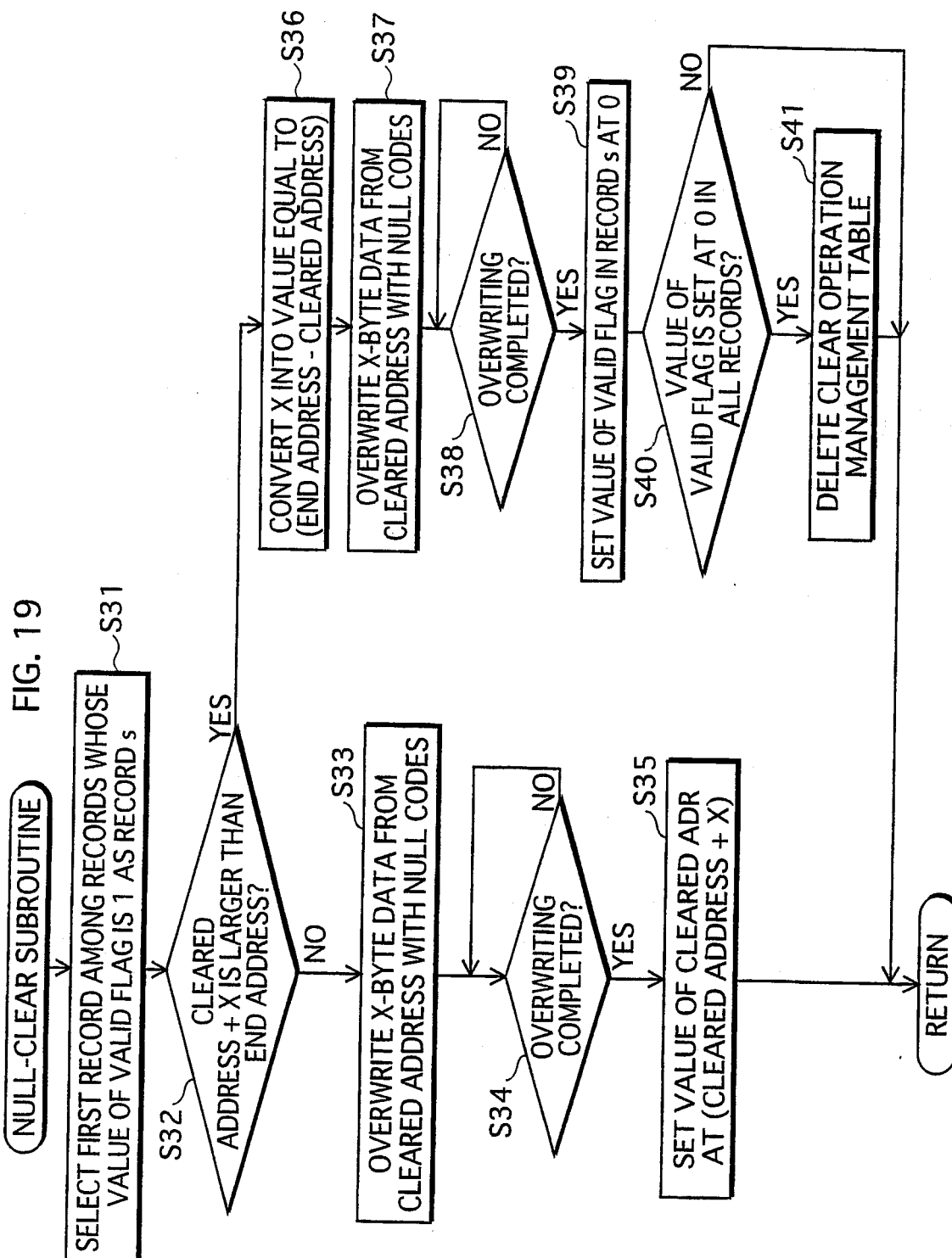


FIG. 20
ROOT DIRECTORY ENTRY AFTER OVERWRITING BY DELETION HANDLER

FILE NAME	FILE EXTENSION	FIRST CLUSTER NUMBER
NULL	NULL	NULL

FAT ENTRY 002-006

reserved	reserved	FAT ENTRY 002 (007)	FAT ENTRY 003 (NULL)	FAT ENTRY 004 (NULL)	FAT ENTRY 005 (NULL)	FAT ENTRY 006
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20/28

CLUSTER 002-006 ① ② ③

CLUSTER 002	CLUSTER 003	CLUSTER 004	CLUSTER 005	CLUSTER 006
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FAT ENTRY 007-00D

FAT ENTRY 007	FAT ENTRY 008	FAT ENTRY 009	FAT ENTRY 00A (NULL)	FAT ENTRY 00B	FAT ENTRY 00C (NULL)	FAT ENTRY 00D
---------------	---------------	---------------	----------------------	---------------	----------------------	---------------

CLUSTER 007-00D ④ ⑤

CLUSTER 007	CLUSTER 008	CLUSTER 009	CLUSTER 00A	CLUSTER 00B	CLUSTER 00C	CLUSTER 00D
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FIG. 21
AFTER OVERWRITING BY NOT-COMMAND-EXECUTING
HANDLER AND READING/Writing HANDLER

ROOT DIRECTORY ENTRY

FILE NAME	FILE EXTENSION	FIRST CLUSTER NUMBER
NULL	NULL	NULL

FAT ENTRY 002-006

reserved	FAT ENTRY 002 (007)	FAT ENTRY 003 (NULL)	FAT ENTRY 004 (NULL)	FAT ENTRY 005 (NULL)	FAT ENTRY 006
----------	------------------------	-------------------------	-------------------------	-------------------------	---------------

CLUSTER 002-006

① ② ③

CLUSTER 002	CLUSTER 003 (NULL)	CLUSTER 004 (NULL)	CLUSTER 005 (NULL)	CLUSTER 006
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FAT ENTRY 007-00D

FAT ENTRY 007	FAT ENTRY 008	FAT ENTRY 009	FAT ENTRY 00A (NULL)	FAT ENTRY 00B	FAT ENTRY 00C (NULL)	FAT ENTRY 00D
---------------	---------------	---------------	-------------------------	---------------	-------------------------	---------------

CLUSTER 007-00D

④ ⑤

CLUSTER 007	CLUSTER 008	CLUSTER 009	CLUSTER 00A (NULL)	CLUSTER 00B	CLUSTER 00C (NULL)	CLUSTER 00D
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FIG. 23

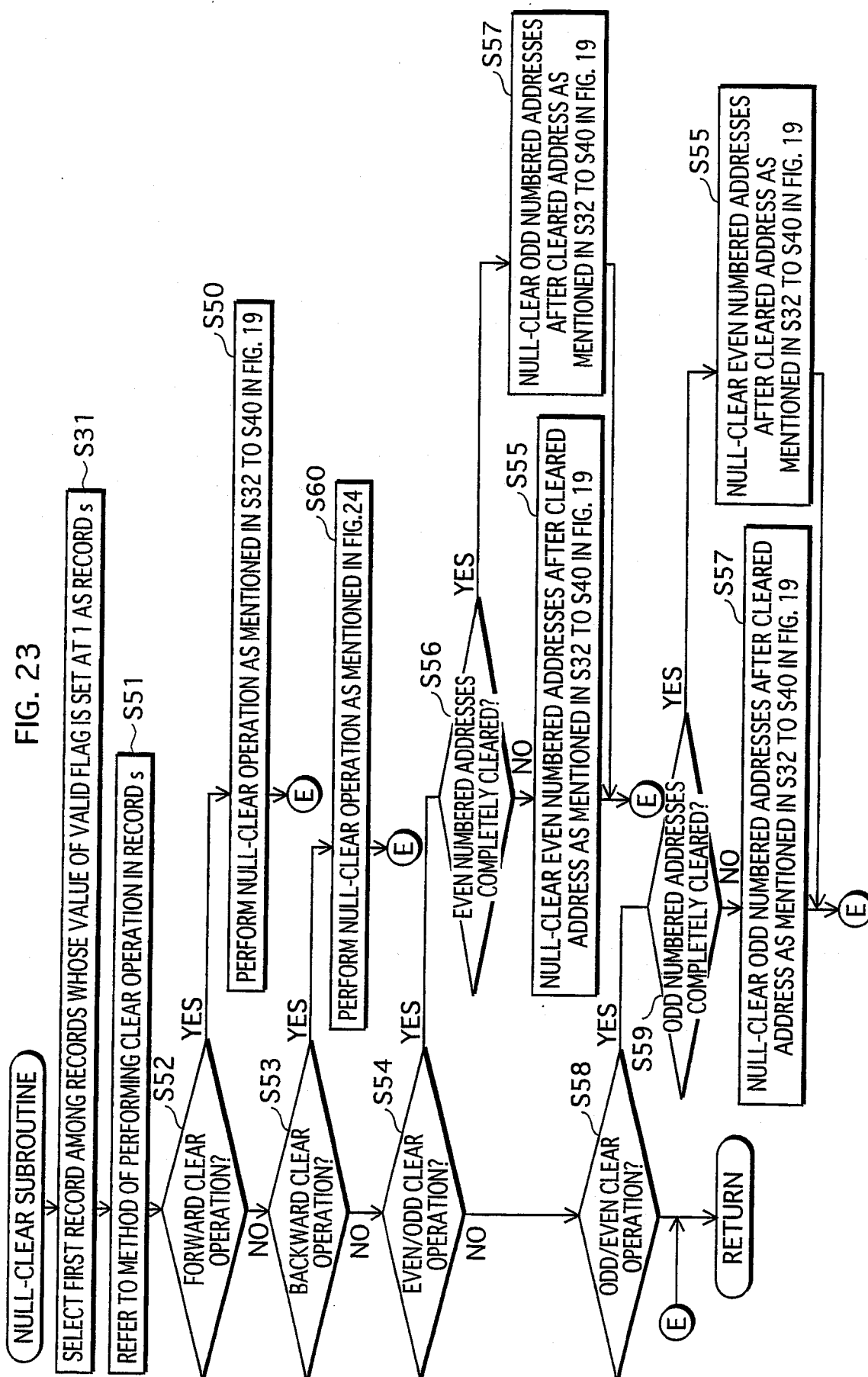


FIG.24

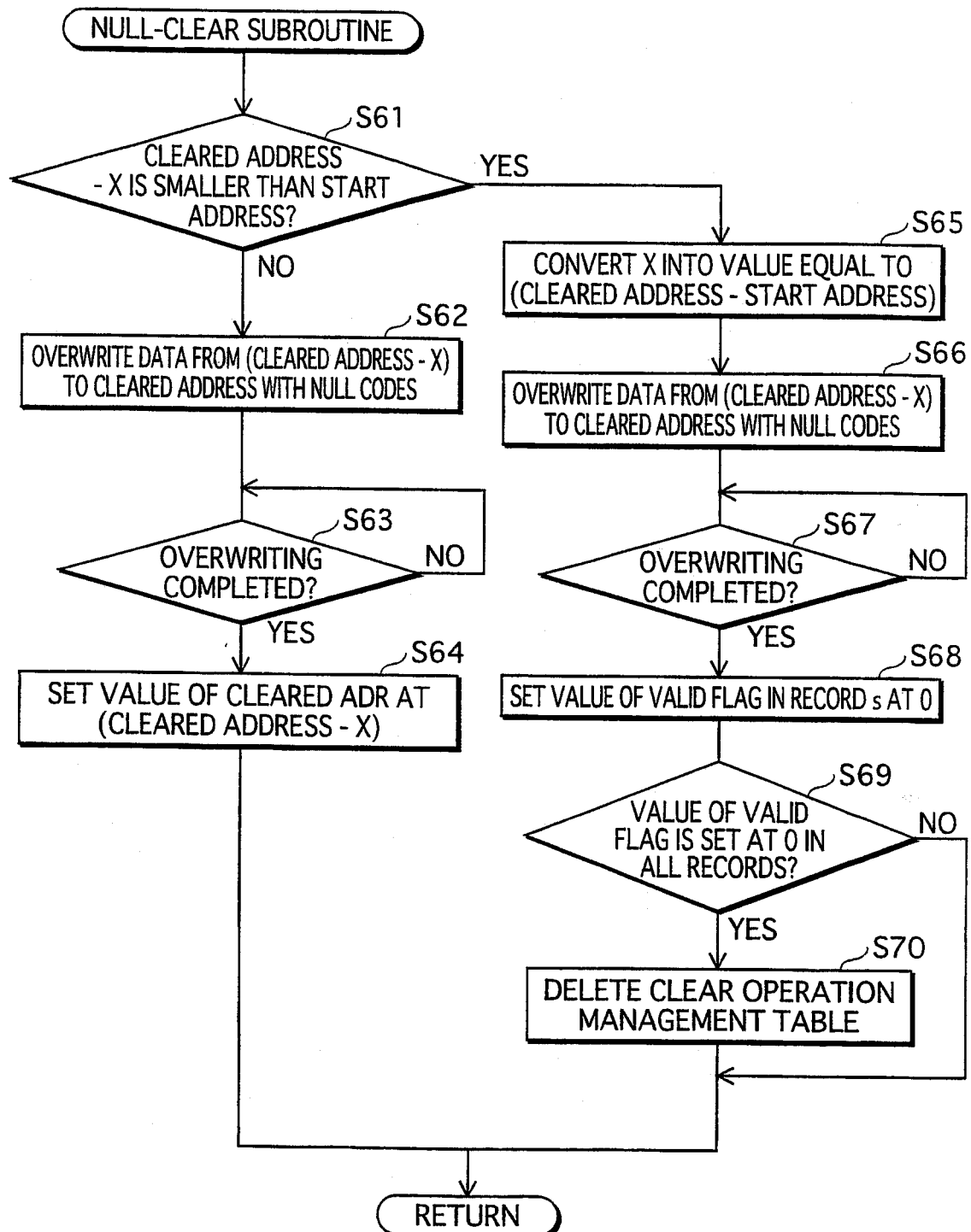


FIG. 25

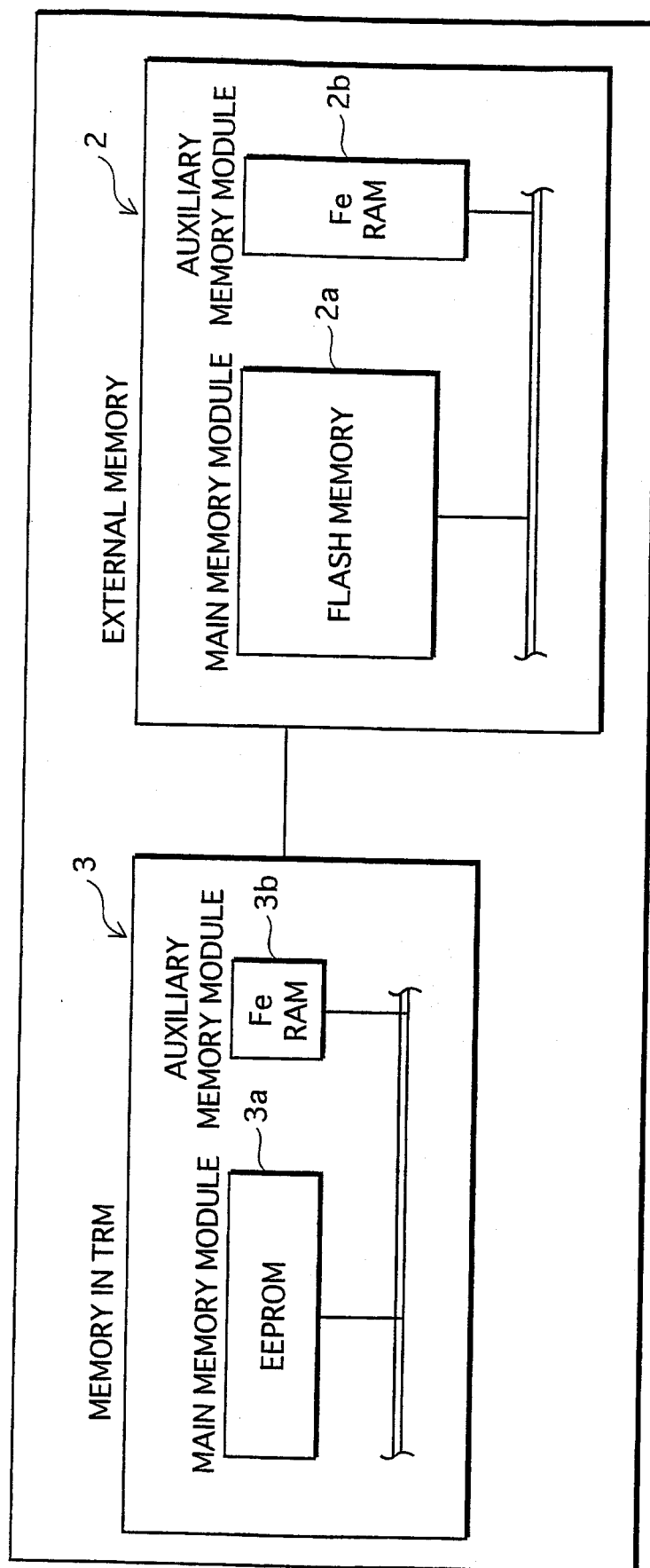


FIG. 26

COMPARISON OF PERFORMANCE

	PRICE	STORING LARGE CAPACITY DATA	UNIT OF WRITING	TIME REQUIRED FOR WRITING	NUMBER OF POSSIBLE WRITING OPERATIONS	WRITING PERFORMANCE	TIME REQUIRED FOR READING	READING METHOD	POWER CONSUMPTION
Flash	LOW	○	BLOCK ※1	10000ns	10 ⁶	UNSTABLE ※2	50ns	NON- DESTRUCTIVE	○
FeRAM	HIGH	△	1byte ※3	30~ 100ns	10 ¹² ~16	STABLE	30~ 100ns	DESTRUCTIVE ※4	◎

FIG.27

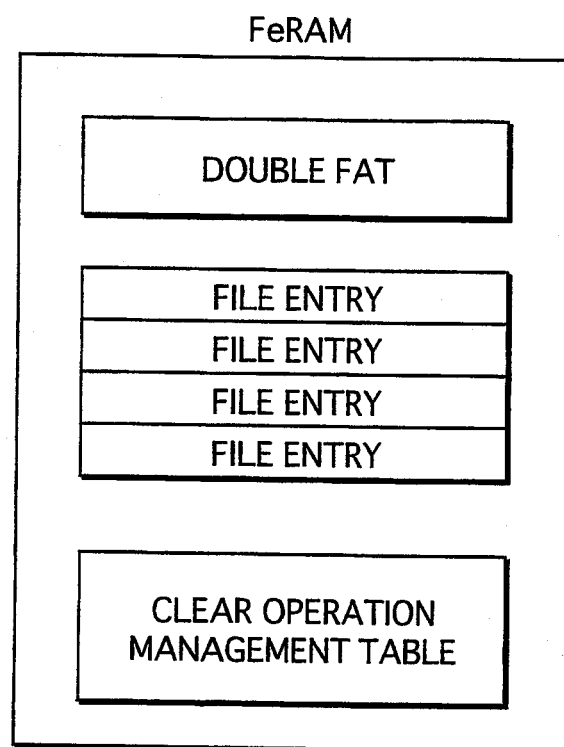


FIG. 28

