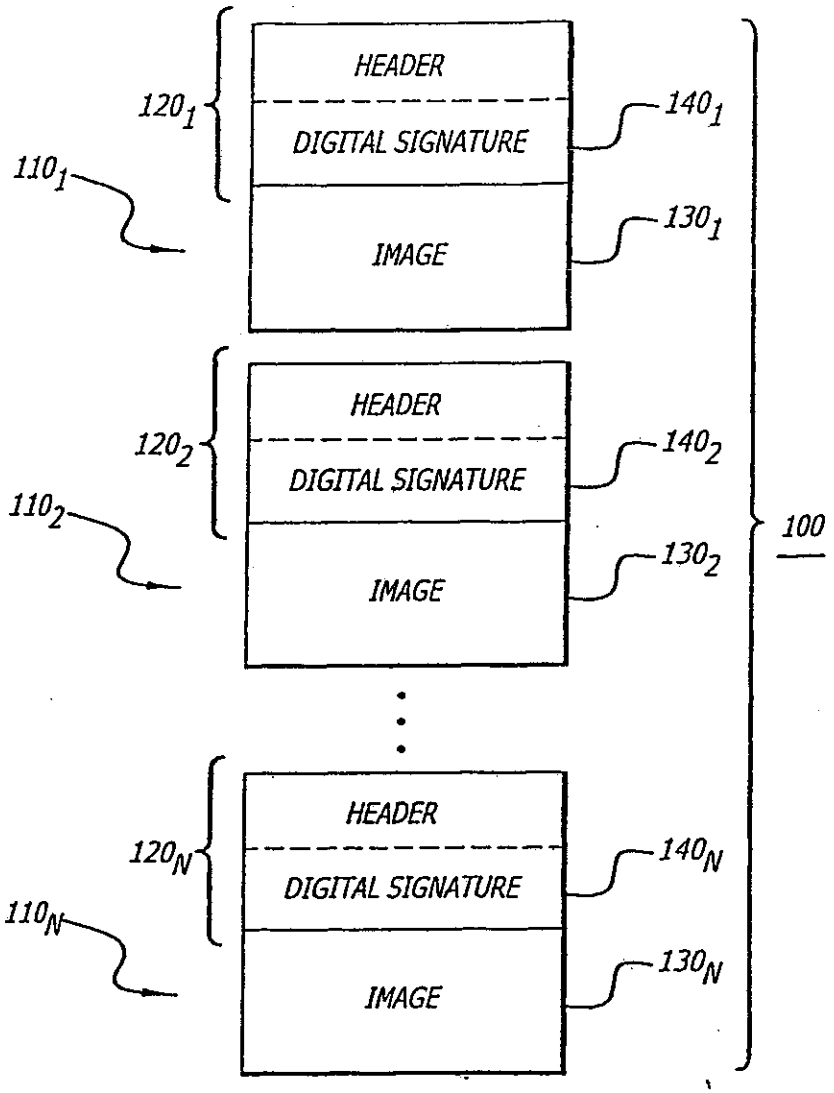

HEADER
DIGITAL SIGNATURE
IMAGE
120_1
140_1
130_1
110_1
120_2
140_2
130_2
110_2
120_N
140_N
130_N
110_N
100

FIG. 1

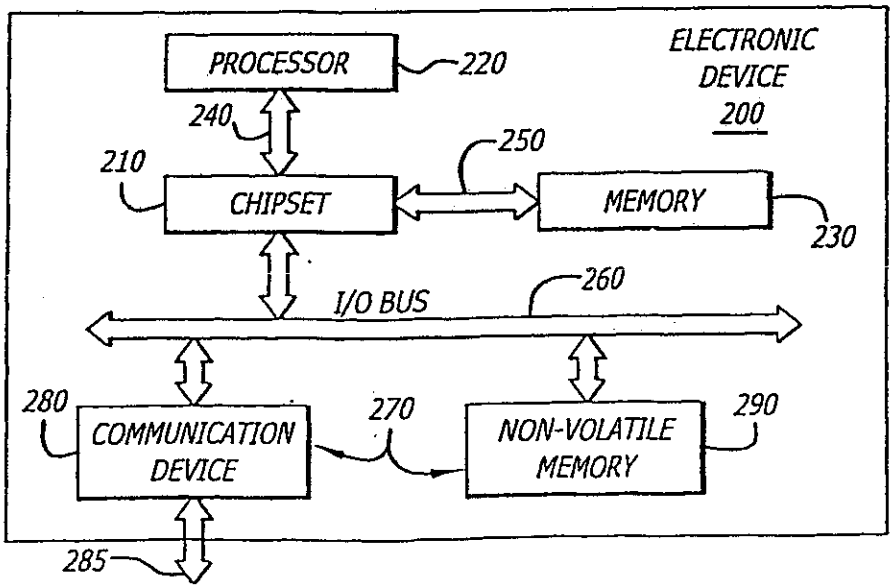

ELECTRONIC DEVICE
200
PROCESSOR
220
240
250
210
CHIPSET
MEMORY
230
I/O BUS
260
280
COMMUNICATION DEVICE
270
NON-VOLATILE MEMORY
290
285

FIG. 2

FIG. 3

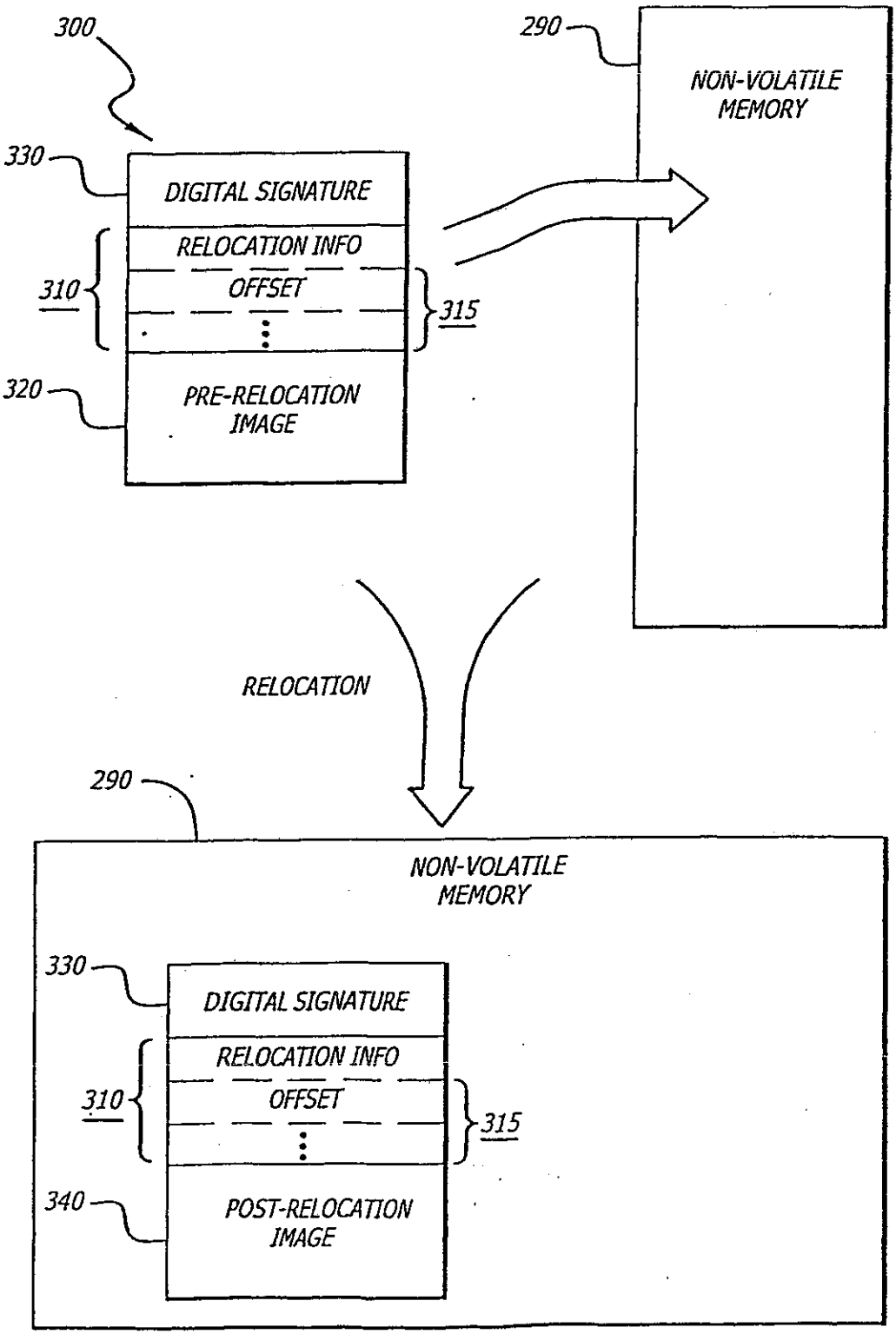
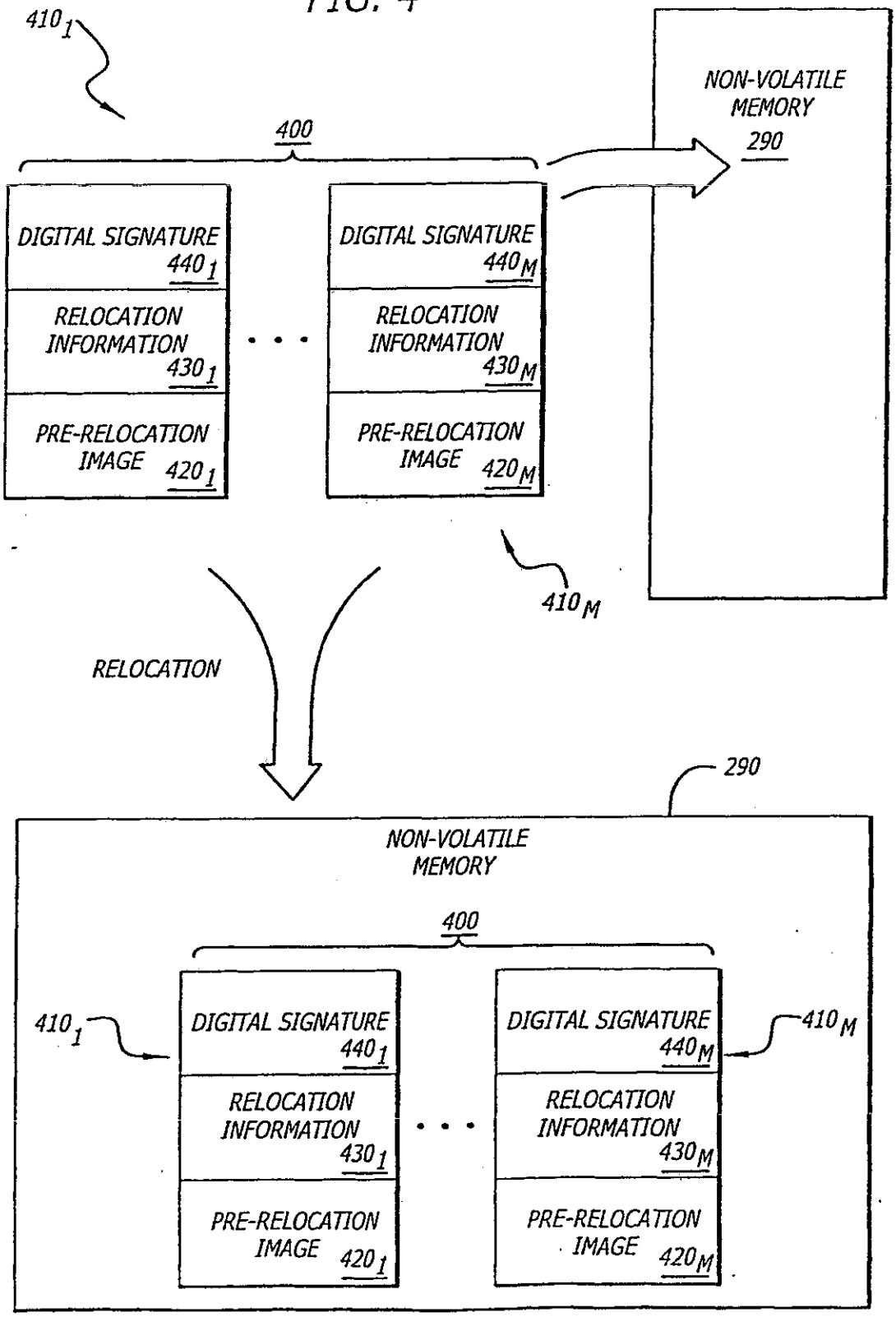

300
290
NON-VOLATILE MEMORY
330
DIGITAL SIGNATURE
RELOCATION INFO
310
OFFSET
315
320
PRE-RELOCATION IMAGE
RELOCATION
290
NON-VOLATILE MEMORY
330
DIGITAL SIGNATURE
RELOCATION INFO
310
OFFSET
315
340
POST-RELOCATION IMAGE

FIG. 4


410 1
400
NON-VOLATILE MEMORY
290
DIGITAL SIGNATURE 440 1
RELOCATION INFORMATION 430 1
PRE-RELOCATION IMAGE 420 1
DIGITAL SIGNATURE 440 M
RELOCATION INFORMATION 430 M
PRE-RELOCATION IMAGE 420 M
410 M
RELOCATION
290
NON-VOLATILE MEMORY
400
410 1
DIGITAL SIGNATURE 440 1
RELOCATION INFORMATION 430 1
PRE-RELOCATION IMAGE 420 1
DIGITAL SIGNATURE 440 M
RELOCATION INFORMATION 430 M
PRE-RELOCATION IMAGE 420 M
410 M

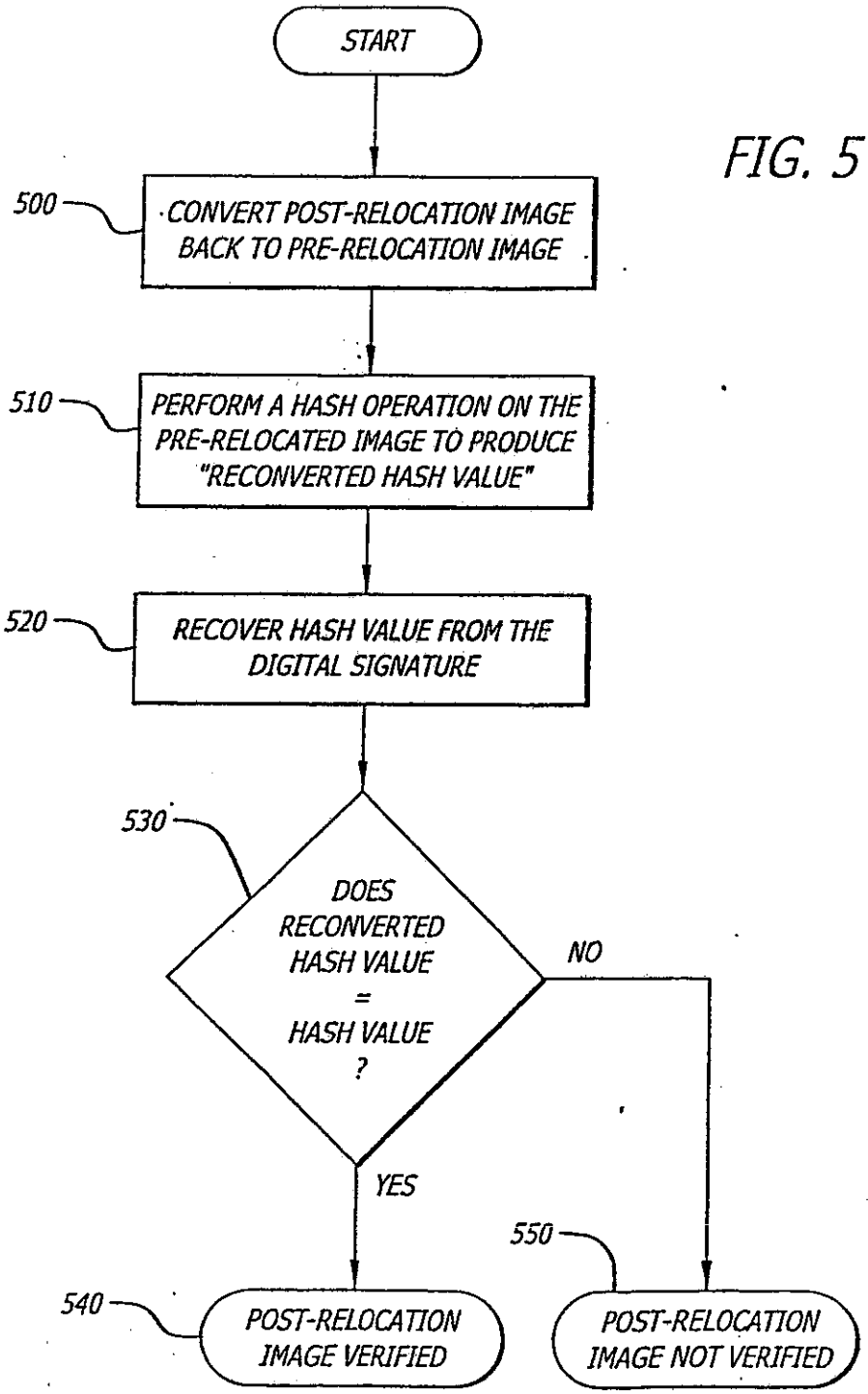

START
500
CONVERT POST-RELOCATION IMAGE BACK TO PRE-RELOCATION IMAGE
510
PERFORM A HASH OPERATION ON THE PRE-RELOCATED IMAGE TO PRODUCE "RECONVERTED HASH VALUE"
520
RECOVER HASH VALUE FROM THE DIGITAL SIGNATURE
530
DOES RECONVERTED HASH VALUE = HASH VALUE ?
NO
YES
550
540
POST-RELOCATION IMAGE VERIFIED
POST-RELOCATION IMAGE NOT VERIFIED

FIG. 5

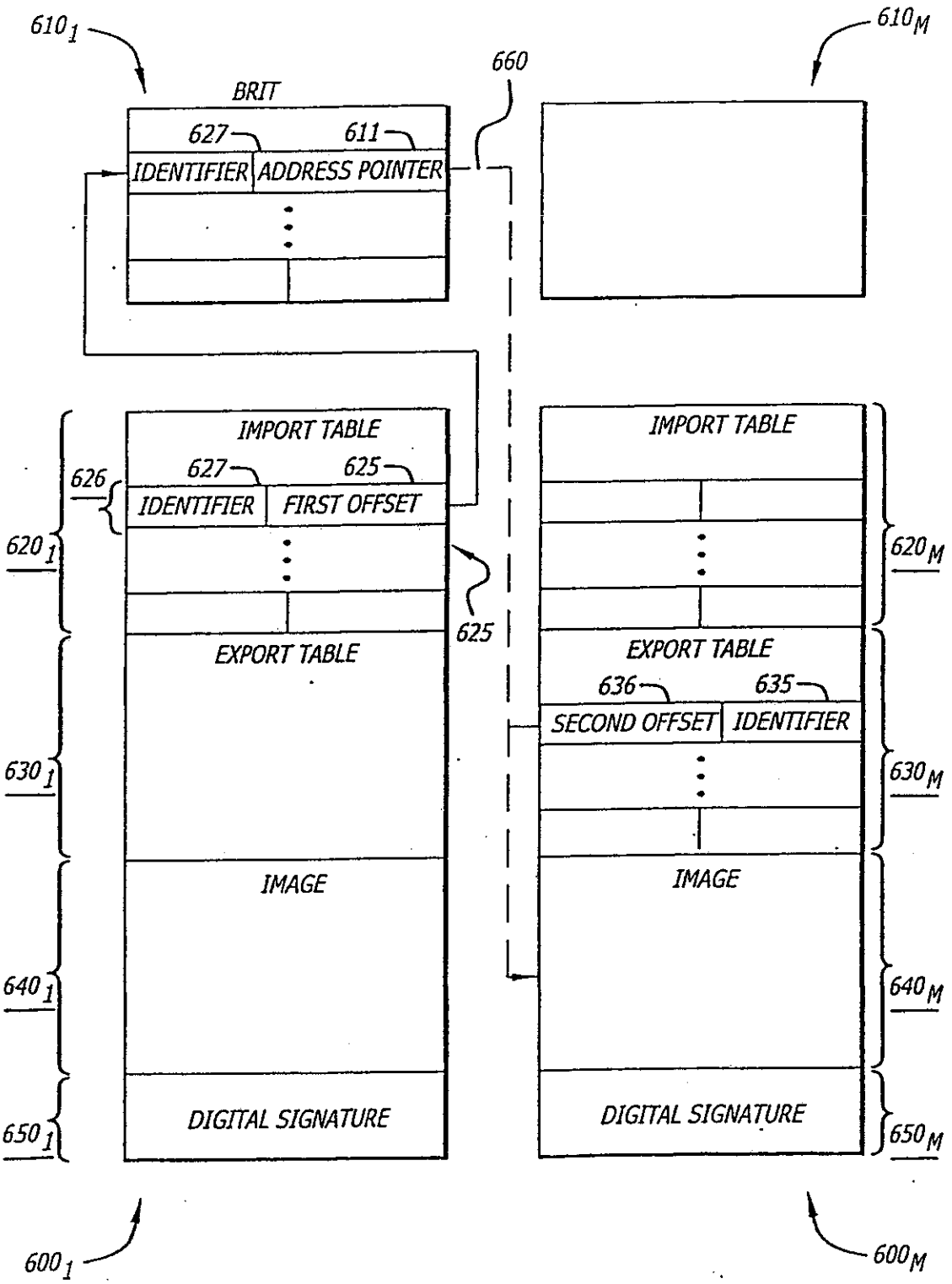

610 1
610 M
660
BRIT
627
611
IDENTIFIER
ADDRESS POINTER
IMPORT TABLE
626
627
625
IDENTIFIER
FIRST OFFSET
620 1
620 M
625
EXPORT TABLE
636
635
SECOND OFFSET
IDENTIFIER
630 1
630 M
IMAGE
640 1
640 M
DIGITAL SIGNATURE
650 1
650 M
600 1
600 M

FIG. 6

FIG. 7

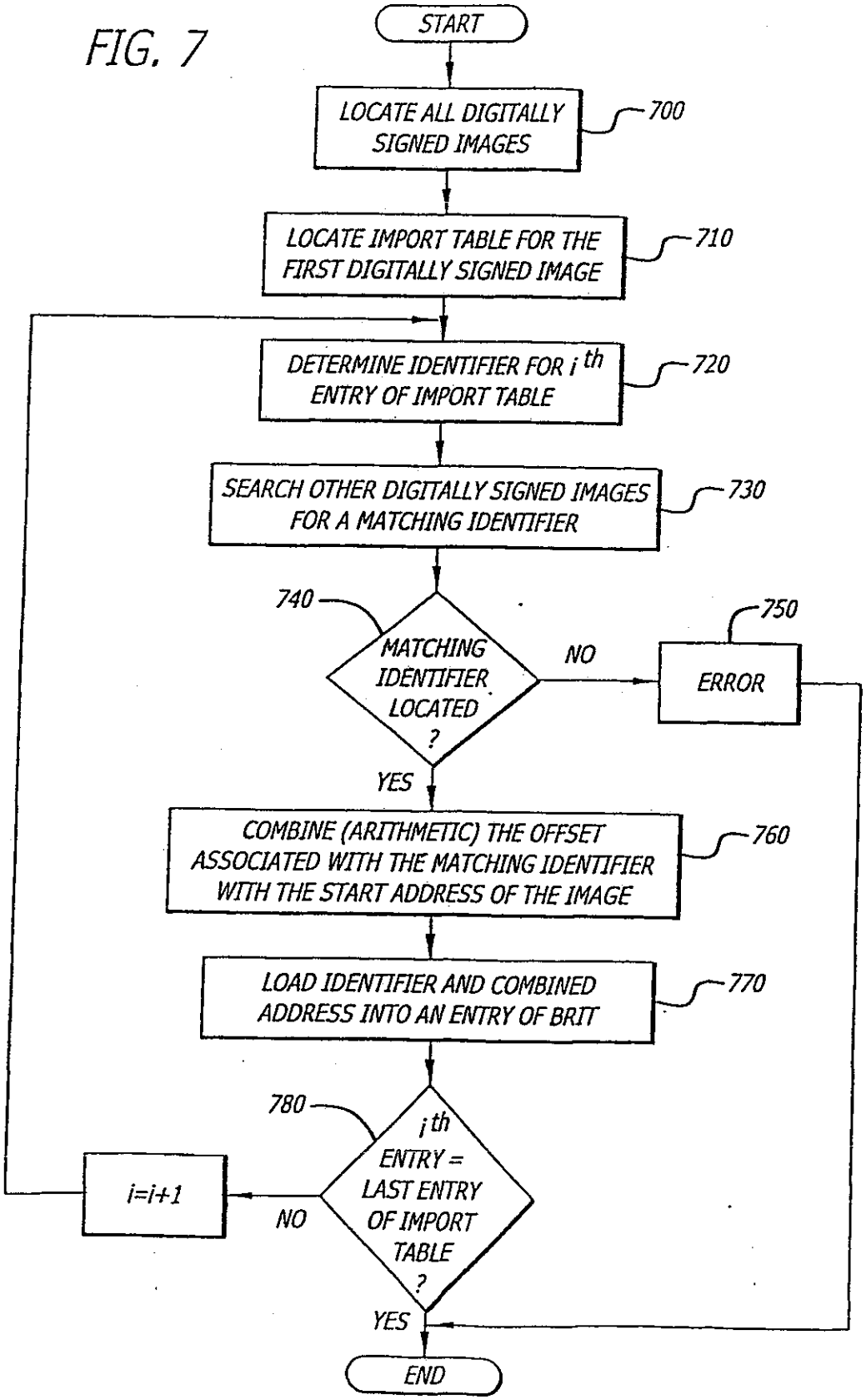
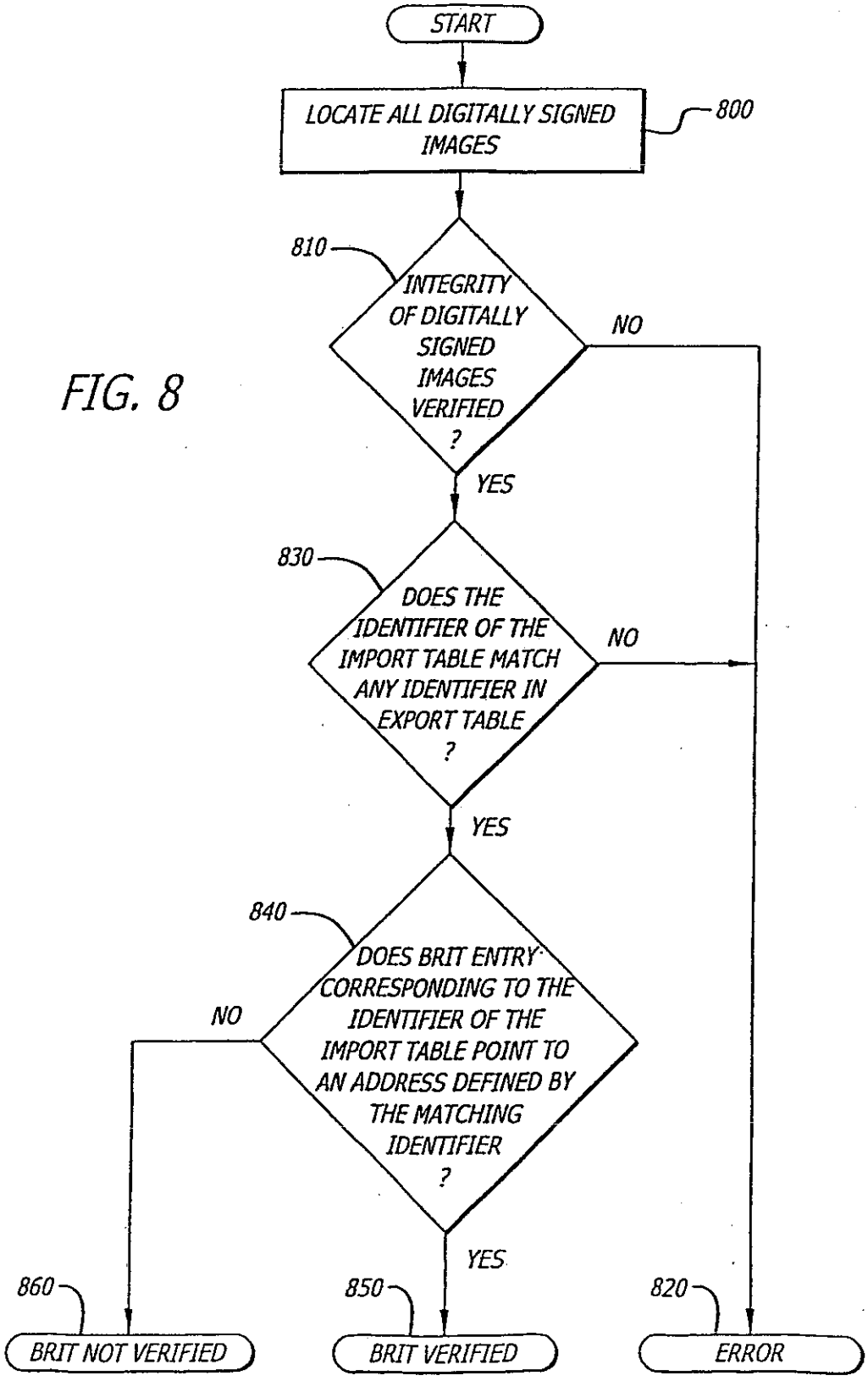

START
LOCATE ALL DIGITALLY SIGNED IMAGES
700
LOCATE IMPORT TABLE FOR THE FIRST DIGITALLY SIGNED IMAGE
710
DETERMINE IDENTIFIER FOR i th ENTRY OF IMPORT TABLE
720
SEARCH OTHER DIGITALLY SIGNED IMAGES FOR A MATCHING IDENTIFIER
730
740
MATCHING IDENTIFIER LOCATED ?
NO
750
ERROR
YES
COMBINE (ARITHMETIC) THE OFFSET ASSOCIATED WITH THE MATCHING IDENTIFIER WITH THE START ADDRESS OF THE IMAGE
760
LOAD IDENTIFIER AND COMBINED ADDRESS INTO AN ENTRY OF BRIT
770
780
i th ENTRY = LAST ENTRY OF IMPORT TABLE ?
i=i+1
NO
YES
END

FIG. 8


START
LOCATE ALL DIGITALLY SIGNED IMAGES
800
810
INTEGRITY OF DIGITALLY SIGNED IMAGES VERIFIED ?
NO
YES
830
DOES THE IDENTIFIER OF THE IMPORT TABLE MATCH ANY IDENTIFIER IN EXPORT TABLE ?
NO
YES
840
DOES BRIT ENTRY CORRESPONDING TO THE IDENTIFIER OF THE IMPORT TABLE POINT TO AN ADDRESS DEFINED BY THE MATCHING IDENTIFIER ?
NO
YES
860
BRIT NOT VERIFIED
850
BRIT VERIFIED
820
ERROR