FIG.1A

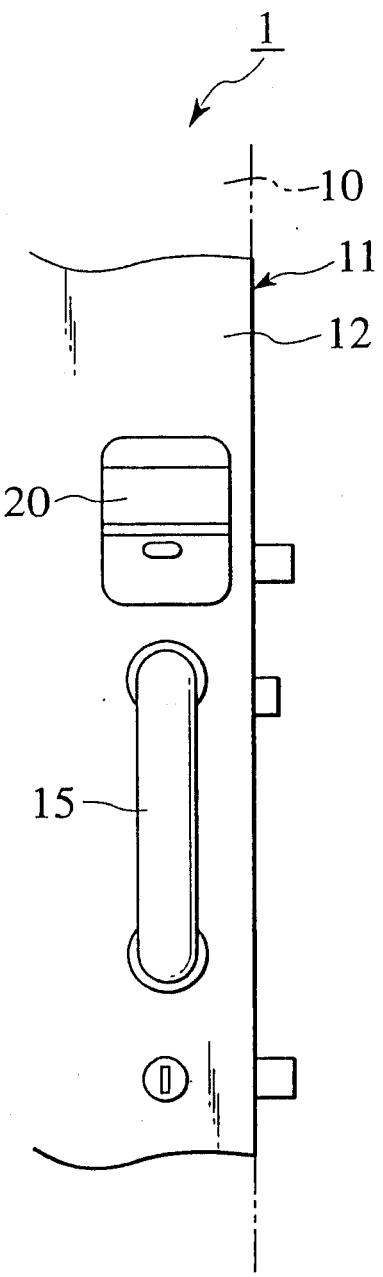


FIG.1B

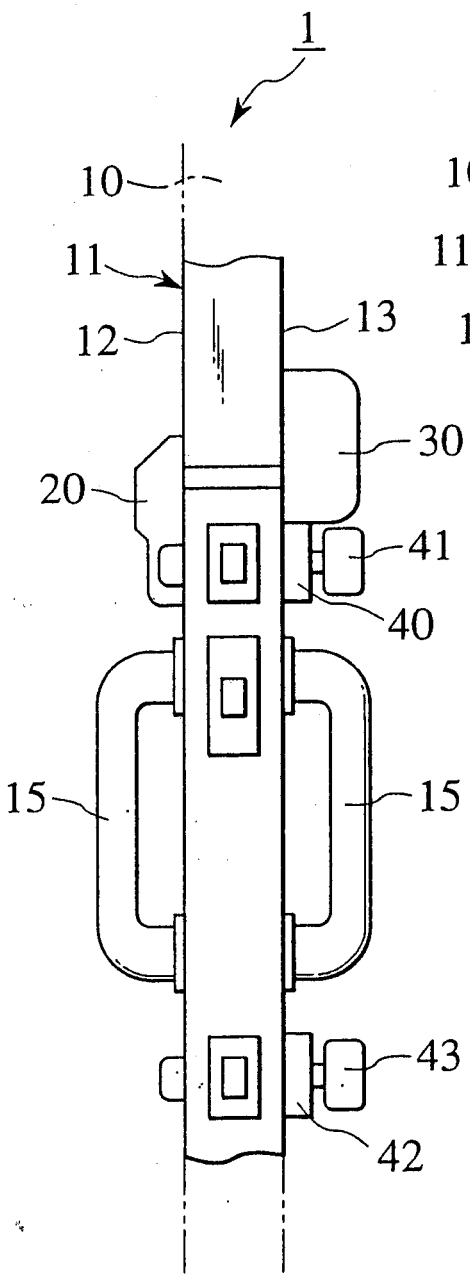


FIG.1C

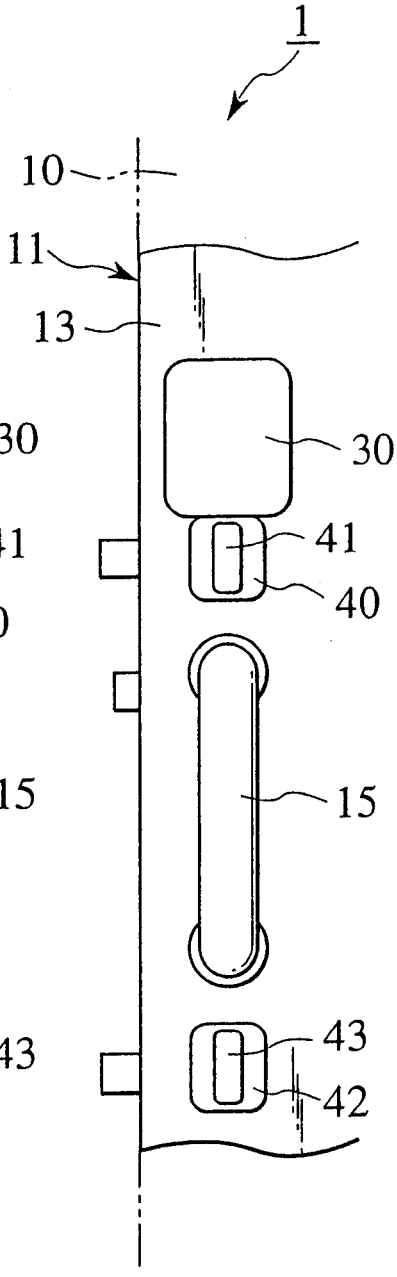


FIG.2

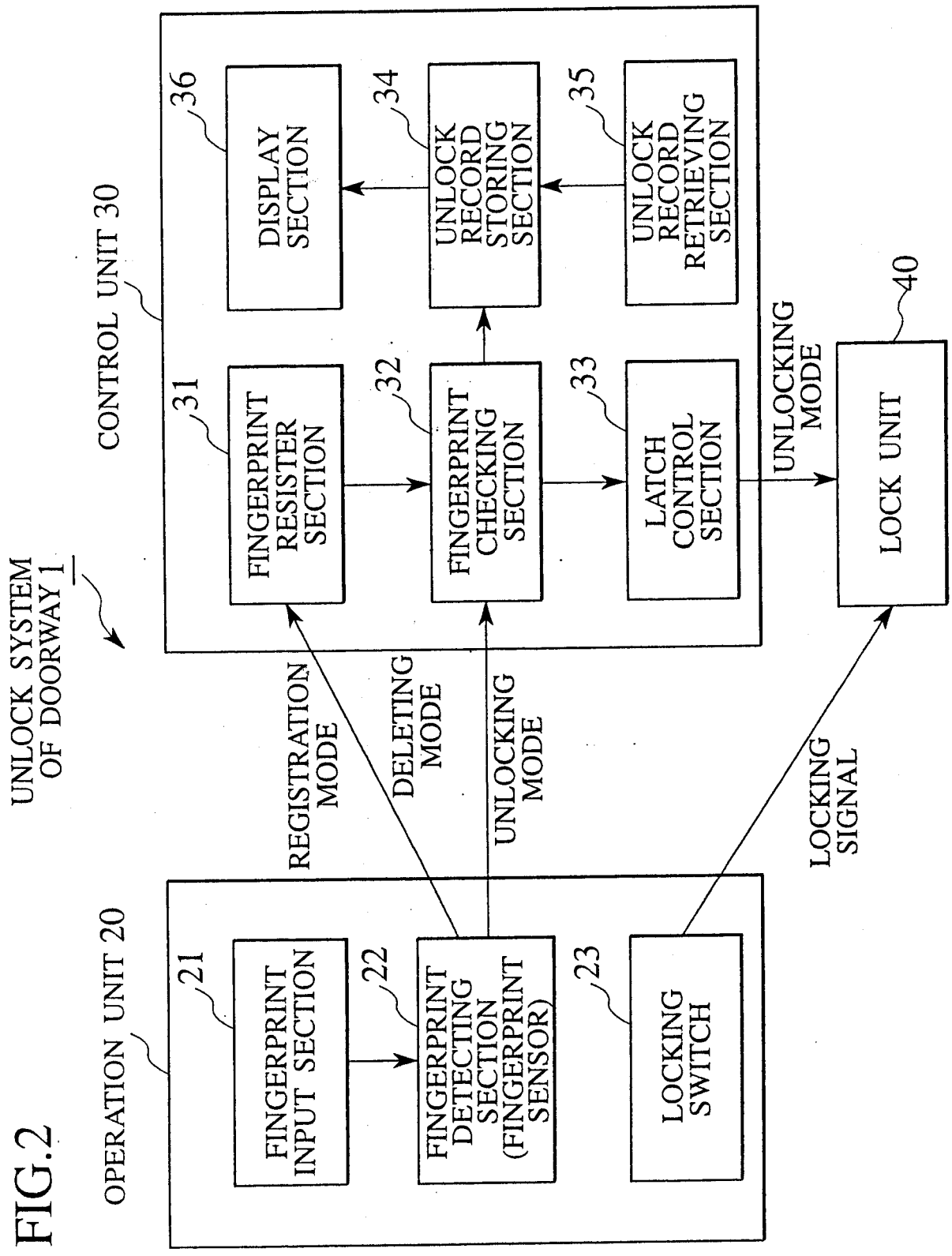

UNLOCK SYSTEM OF DOORWAY 1
CONTROL UNIT 30
OPERATION UNIT 20
FINGERPRINT INPUT SECTION
FINGERPRINT DETECTING SECTION (FINGERPRINT SENSOR)
LOCKING SWITCH
FINGERPRINT RESISTER SECTION
FINGERPRINT CHECKING SECTION
LATCH CONTROL SECTION
DISPLAY SECTION
UNLOCK RECORD STORING SECTION
UNLOCK RECORD RETRIEVING SECTION
LOCK UNIT
REGISTRATION MODE
DELETING MODE
UNLOCKING MODE
UNLOCKING MODE
LOCKING SIGNAL
21
22
23
31
32
33
34
35
36
40

FIG.3

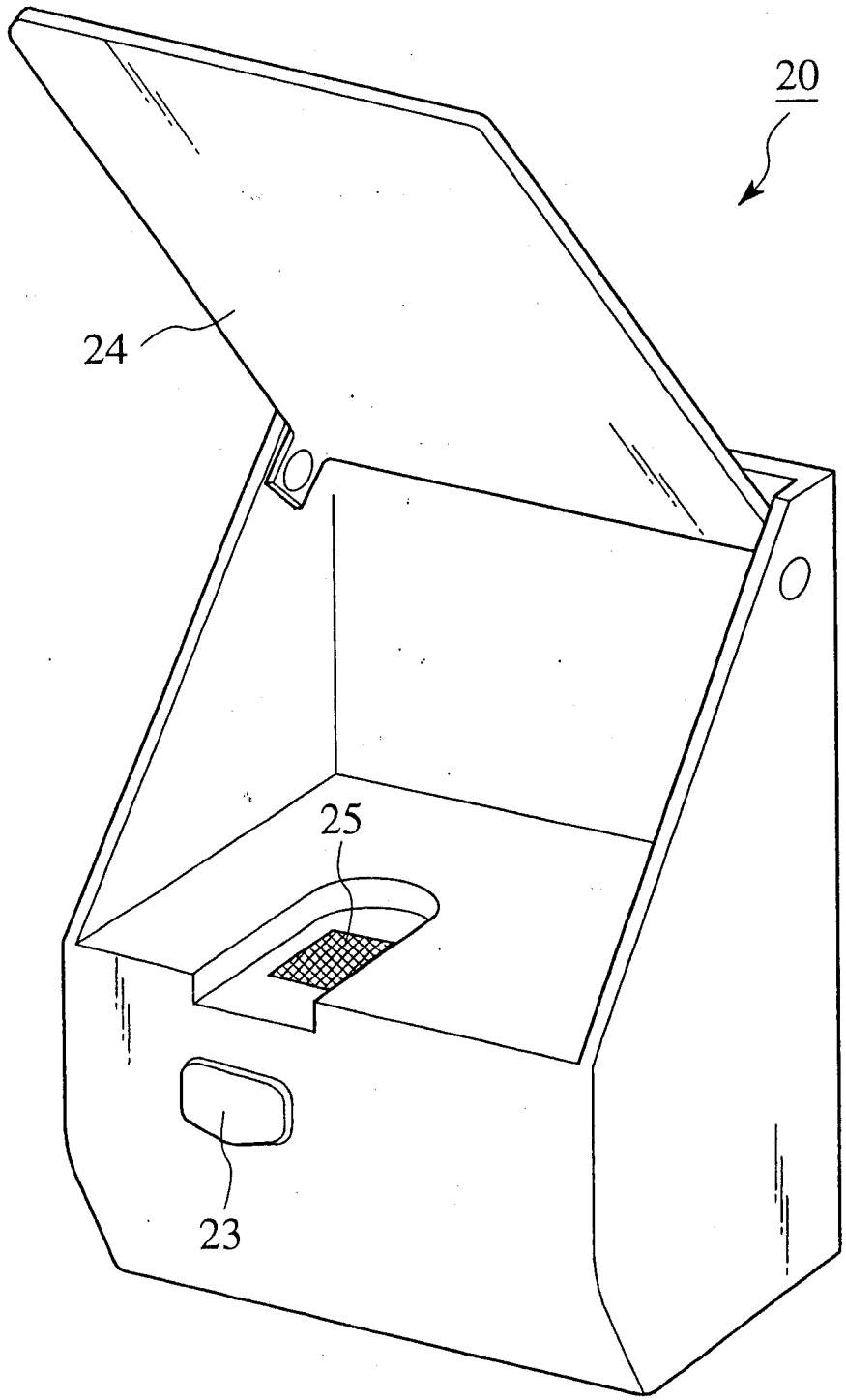


FIG.4

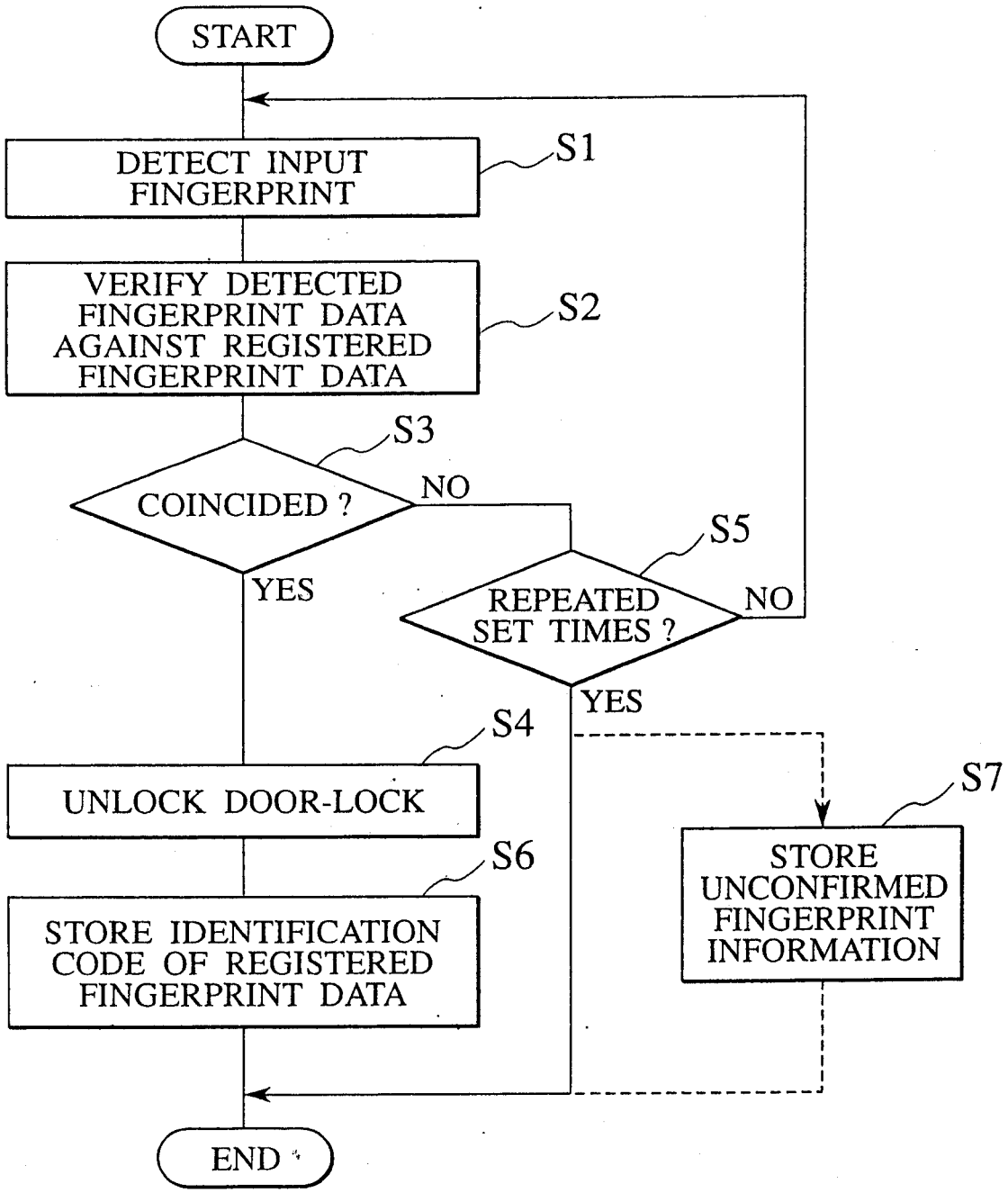
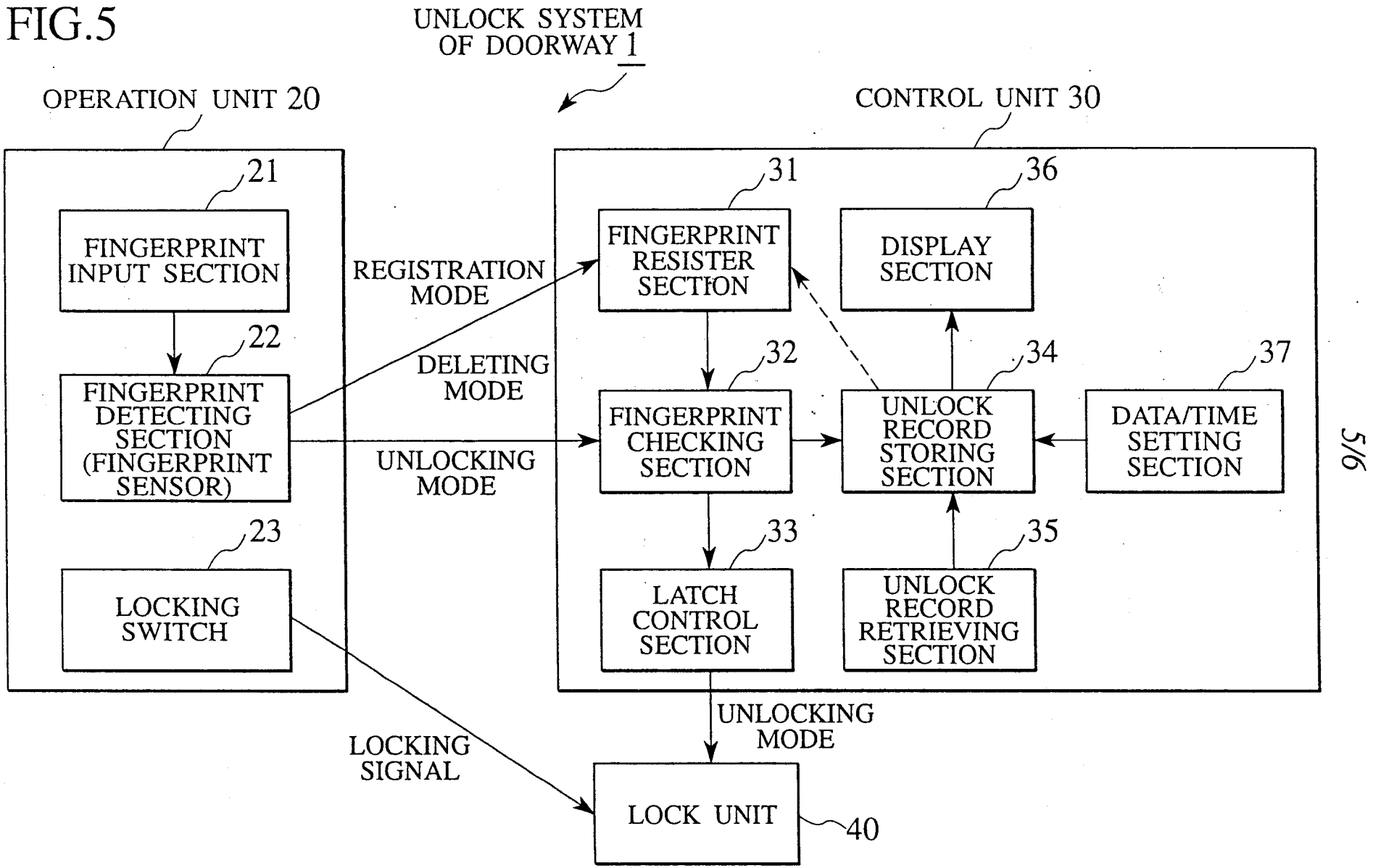
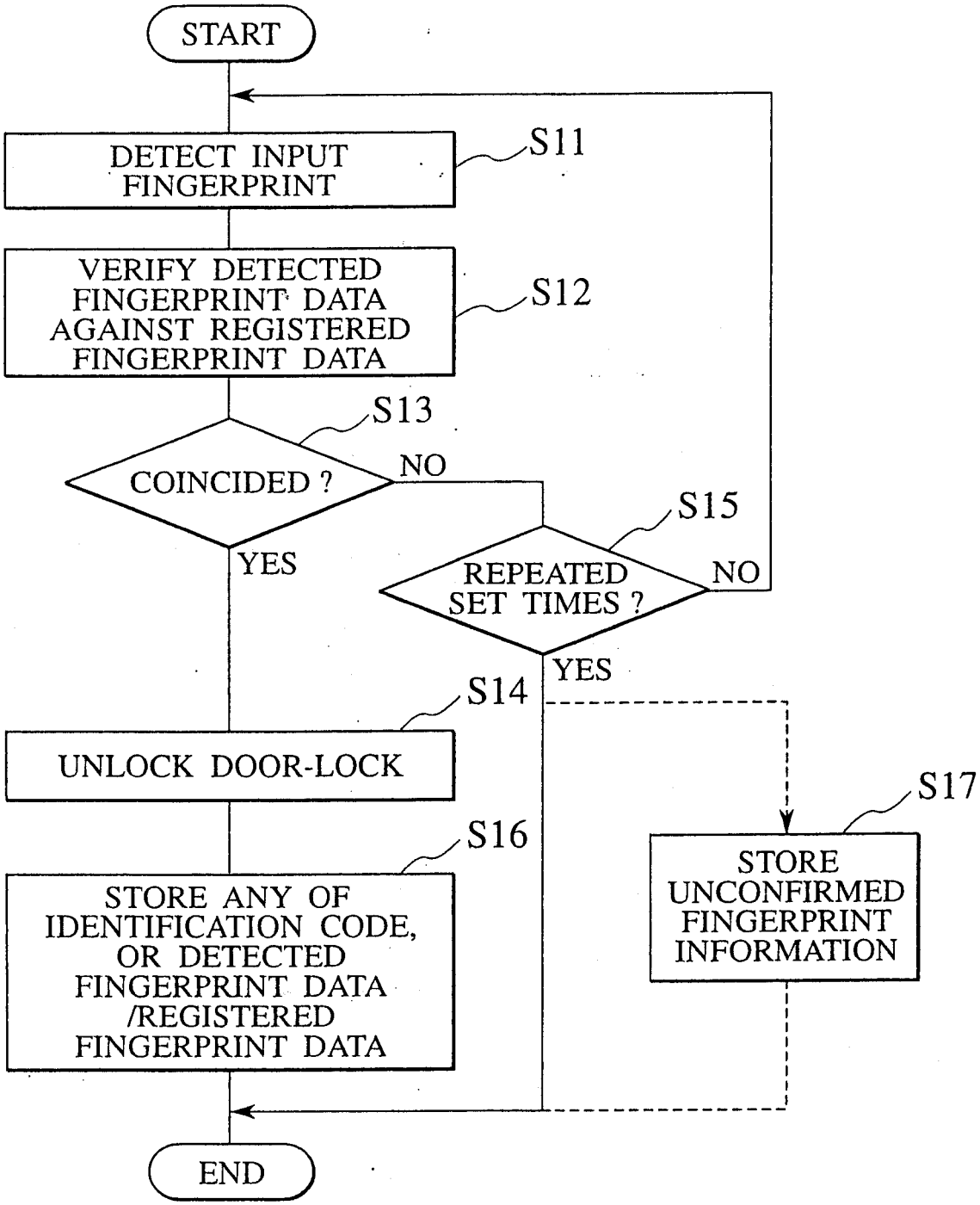

START
DETECT INPUT FINGERPRINT
S1
VERIFY DETECTED FINGERPRINT DATA AGAINST REGISTERED FINGERPRINT DATA
S2
S3
COINCIDED ?
NO
YES
S5
REPEATED SET TIMES ?
NO
YES
S4
UNLOCK DOOR-LOCK
S6
STORE IDENTIFICATION CODE OF REGISTERED FINGERPRINT DATA
S7
STORE UNCONFIRMED FINGERPRINT INFORMATION
END

FIG.5



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FIG.6


START
DETECT INPUT FINGERPRINT
S11
VERIFY DETECTED FINGERPRINT DATA AGAINST REGISTERED FINGERPRINT DATA
S12
S13
COINCIDED ?
NO
YES
S15
REPEATED SET TIMES ?
NO
YES
S14
UNLOCK DOOR-LOCK
S16
STORE ANY OF IDENTIFICATION CODE, OR DETECTED FINGERPRINT DATA /REGISTERED FINGERPRINT DATA
S17
STORE UNCONFIRMED FINGERPRINT INFORMATION
END