FIG. 1

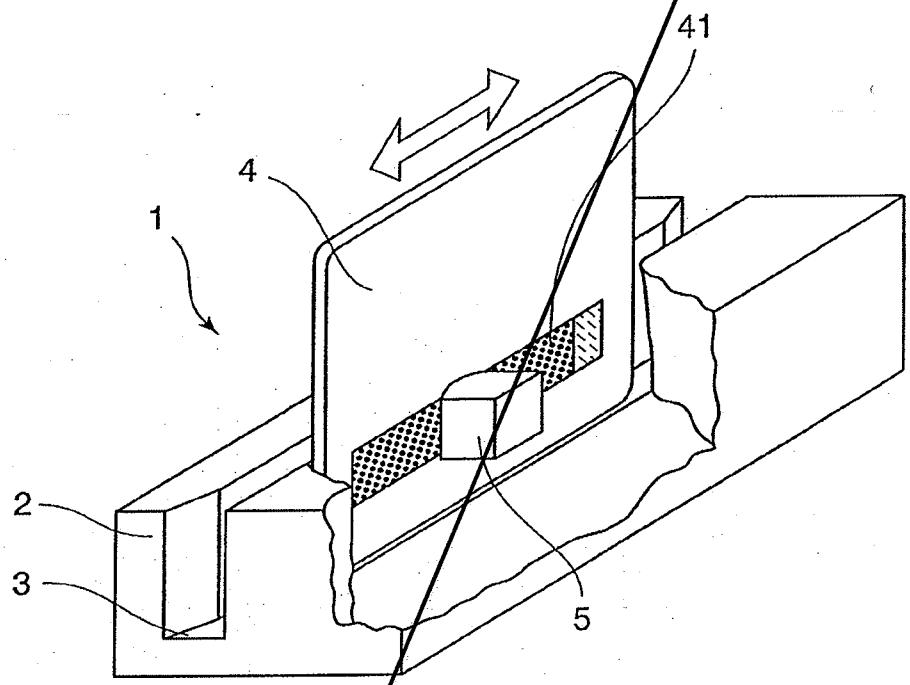

41
4
1
2
3
5

FIG. 2

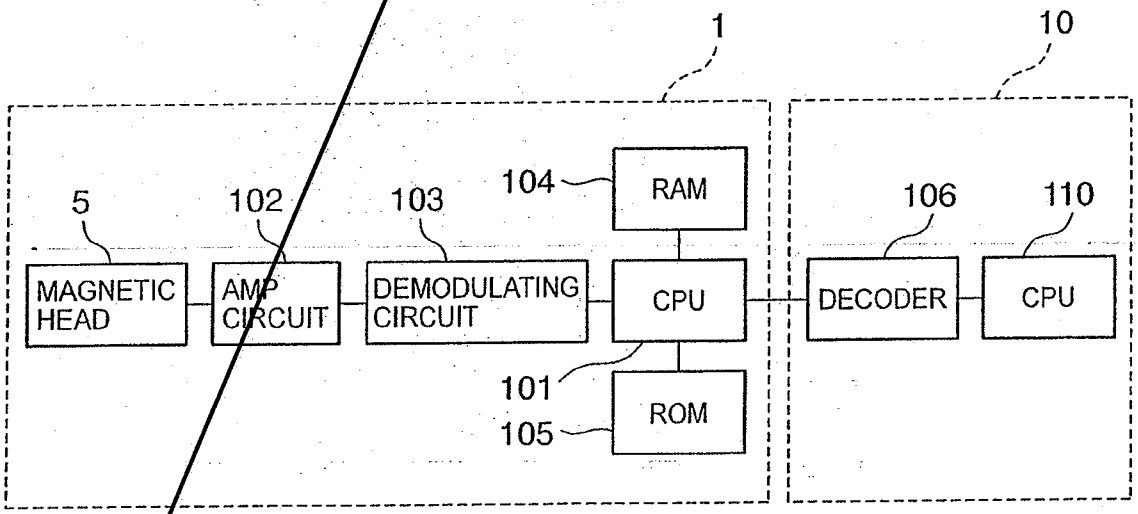

1
10
5
102
103
104
RAM
106
110
MAGNETIC HEAD
AMP CIRCUIT
DEMODULATING CIRCUIT
CPU
DECODER
CPU
101
105
ROM

FIG. 3

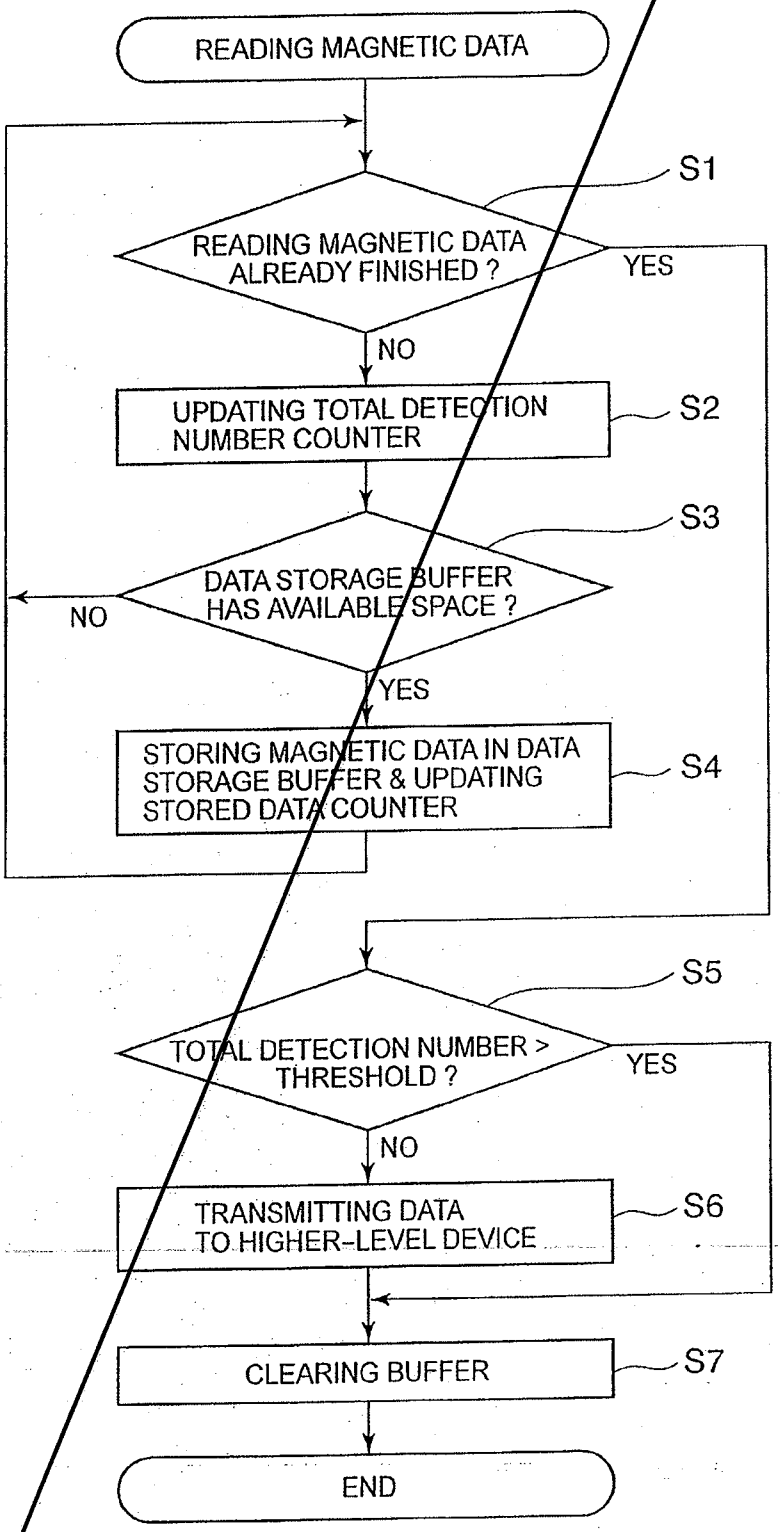

READING MAGNETIC DATA
S1
READING MAGNETIC DATA ALREADY FINISHED ?
YES
NO
UPDATING TOTAL DETECTION NUMBER COUNTER
S2
S3
DATA STORAGE BUFFER HAS AVAILABLE SPACE ?
NO
YES
STORING MAGNETIC DATA IN DATA STORAGE BUFFER & UPDATING STORED DATA COUNTER
S4
S5
TOTAL DETECTION NUMBER > THRESHOLD ?
YES
NO
TRANSMITTING DATA TO HIGHER-LEVEL DEVICE
S6
CLEARING BUFFER
S7
END

FIG. 4

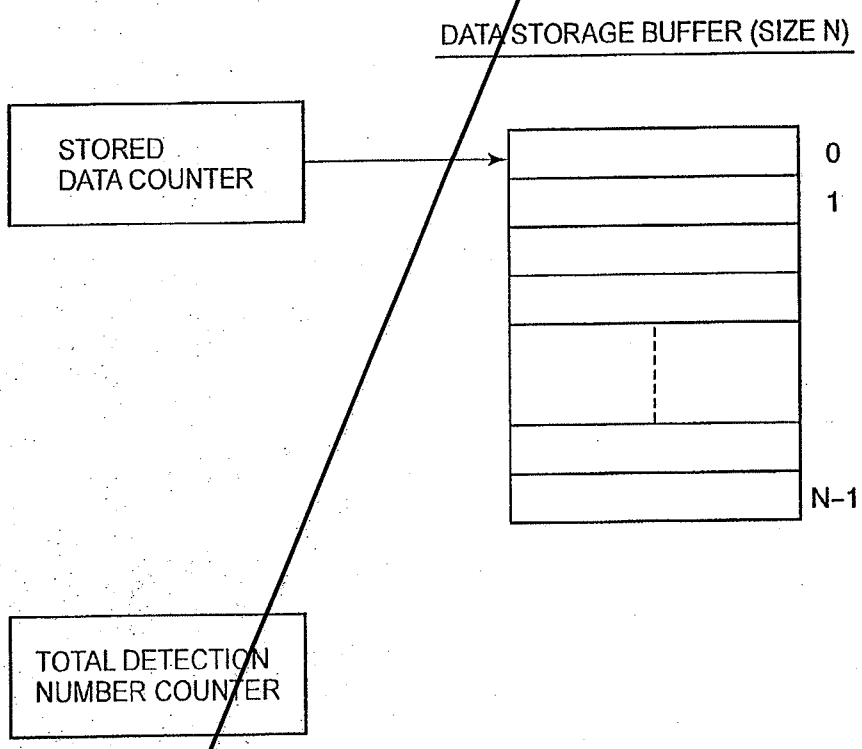

DATA STORAGE BUFFER (SIZE N)
STORED DATA COUNTER
0
1
N-1
TOTAL DETECTION NUMBER COUNTER

FIG. 5

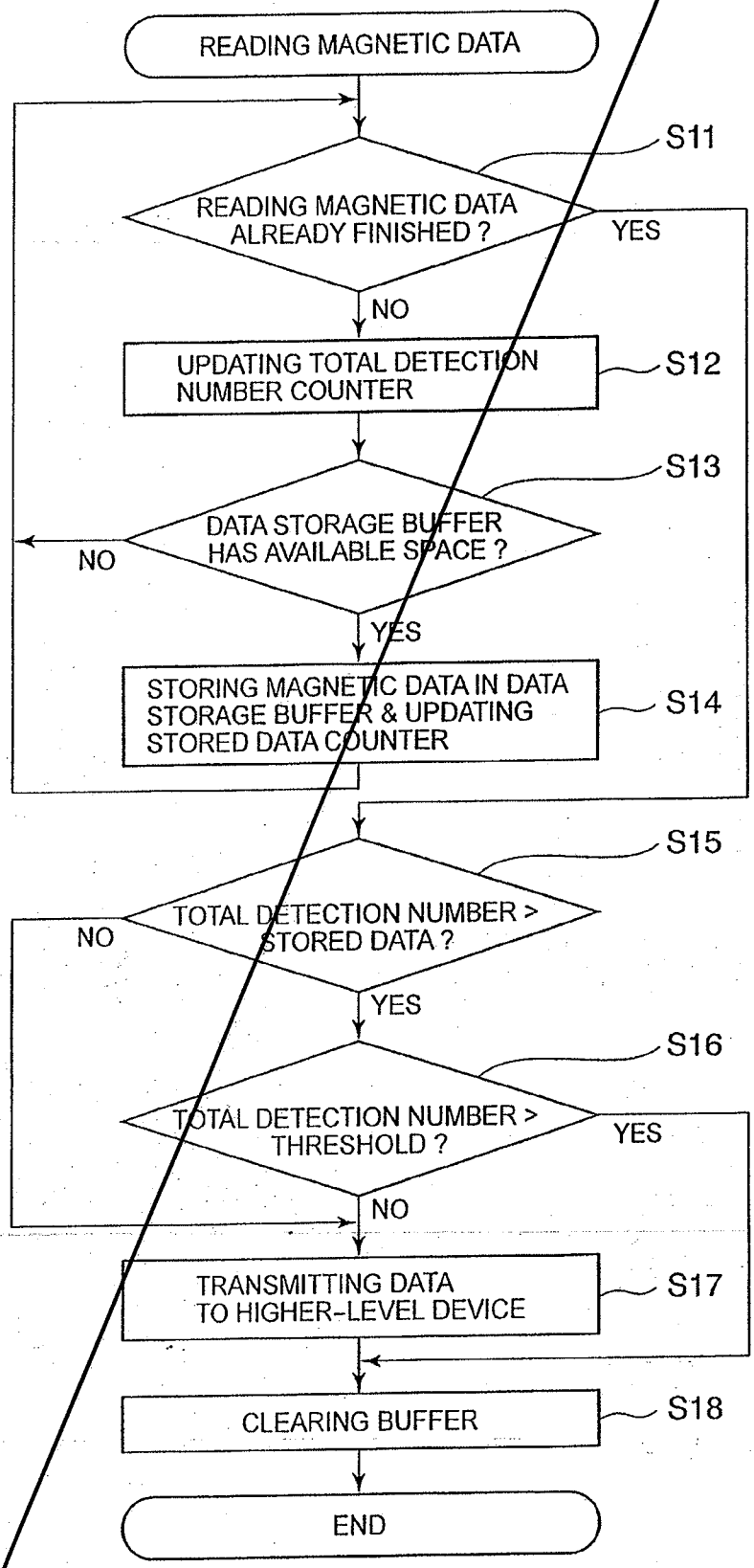

READING MAGNETIC DATA
S11
READING MAGNETIC DATA ALREADY FINISHED ?
YES
NO
UPDATING TOTAL DETECTION NUMBER COUNTER
S12
S13
DATA STORAGE BUFFER HAS AVAILABLE SPACE ?
NO
YES
STORING MAGNETIC DATA IN DATA STORAGE BUFFER & UPDATING STORED DATA COUNTER
S14
S15
TOTAL DETECTION NUMBER > STORED DATA ?
NO
YES
S16
TOTAL DETECTION NUMBER > THRESHOLD ?
YES
NO
TRANSMITTING DATA TO HIGHER-LEVEL DEVICE
S17
CLEARING BUFFER
S18
END

FIG. 6

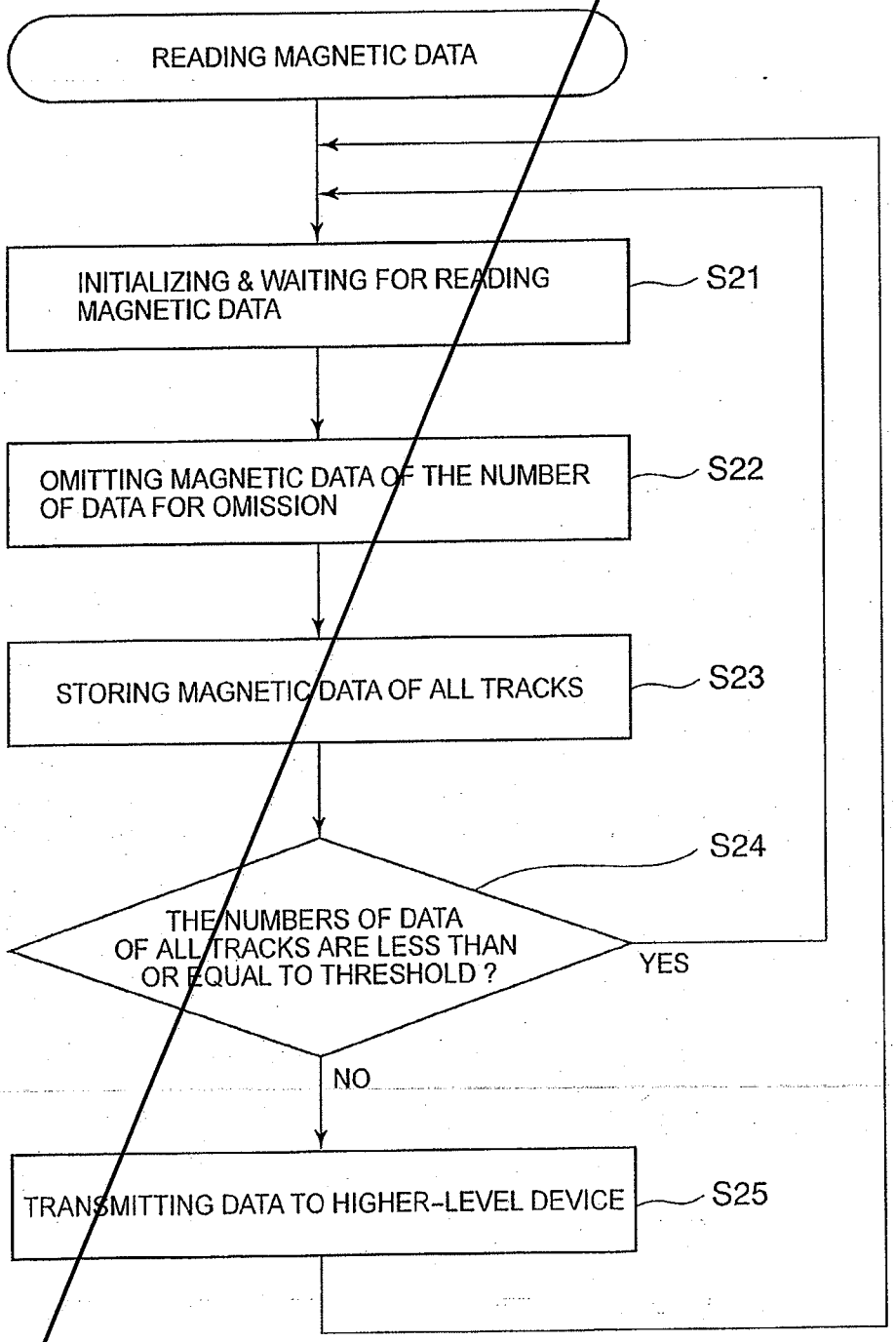

READING MAGNETIC DATA
INITIALIZING & WAITING FOR READING MAGNETIC DATA
S21
OMITTING MAGNETIC DATA OF THE NUMBER OF DATA FOR OMISSION
S22
STORING MAGNETIC DATA OF ALL TRACKS
S23
S24
THE NUMBERS OF DATA OF ALL TRACKS ARE LESS THAN OR EQUAL TO THRESHOLD ?
YES
NO
TRANSMITTING DATA TO HIGHER-LEVEL DEVICE
S25

FIG. 7

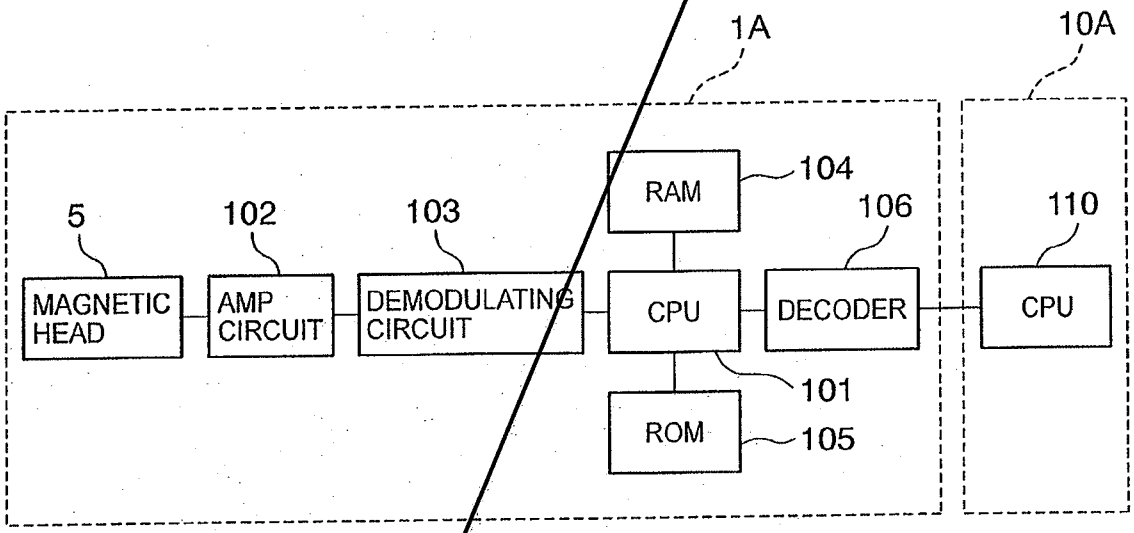

1A
10A
5
102
103
RAM
104
106
110
MAGNETIC HEAD
AMP CIRCUIT
DEMODULATING CIRCUIT
CPU
DECODER
CPU
101
ROM
105

FIG. 1

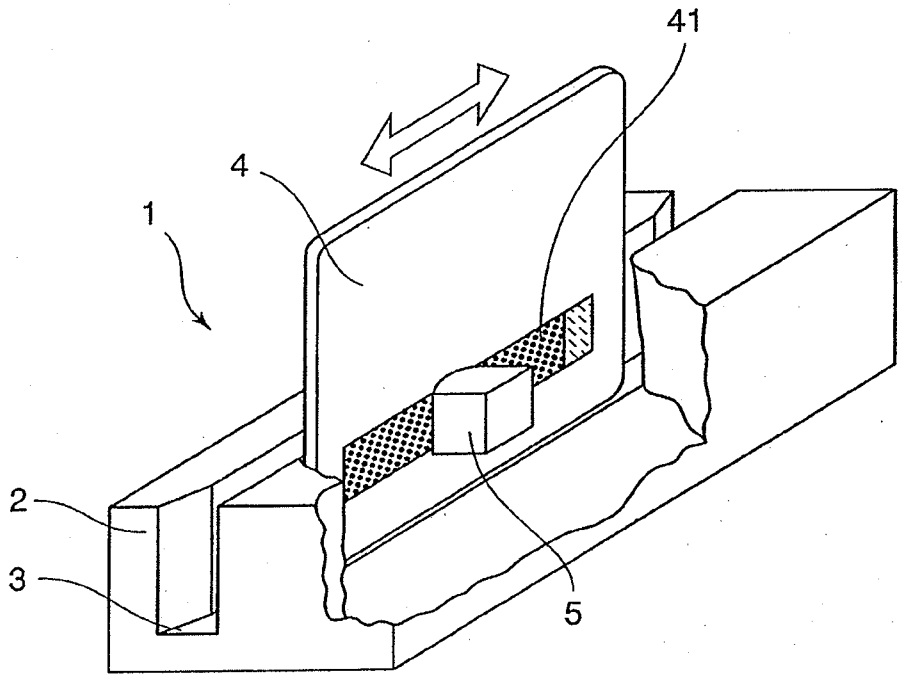

41
4
1
2
3
5

FIG. 2

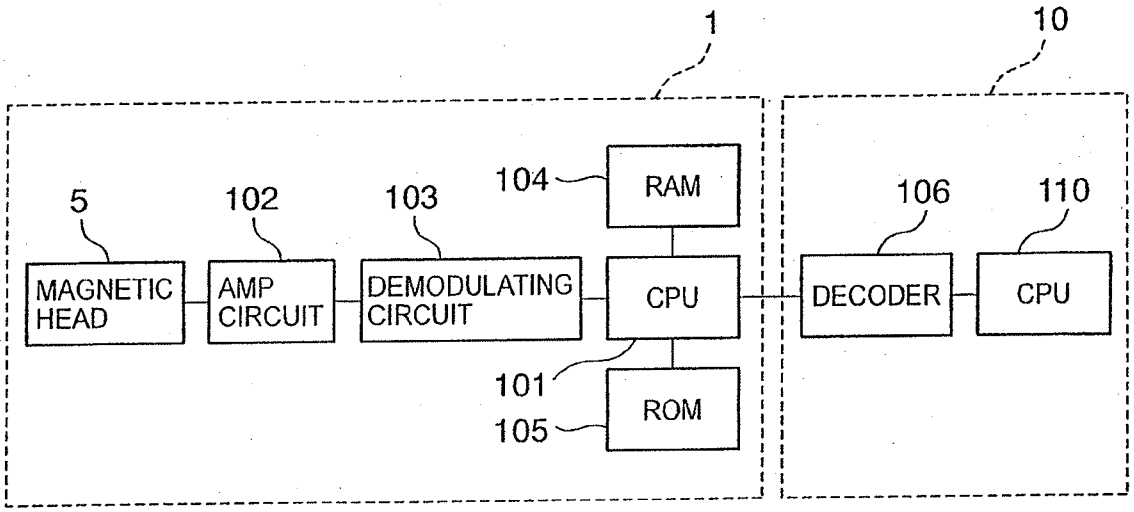

1
10
5
102
103
104
RAM
106
110
MAGNETIC HEAD
AMP CIRCUIT
DEMODULATING CIRCUIT
CPU
DECODER
CPU
101
105
ROM

FIG. 3

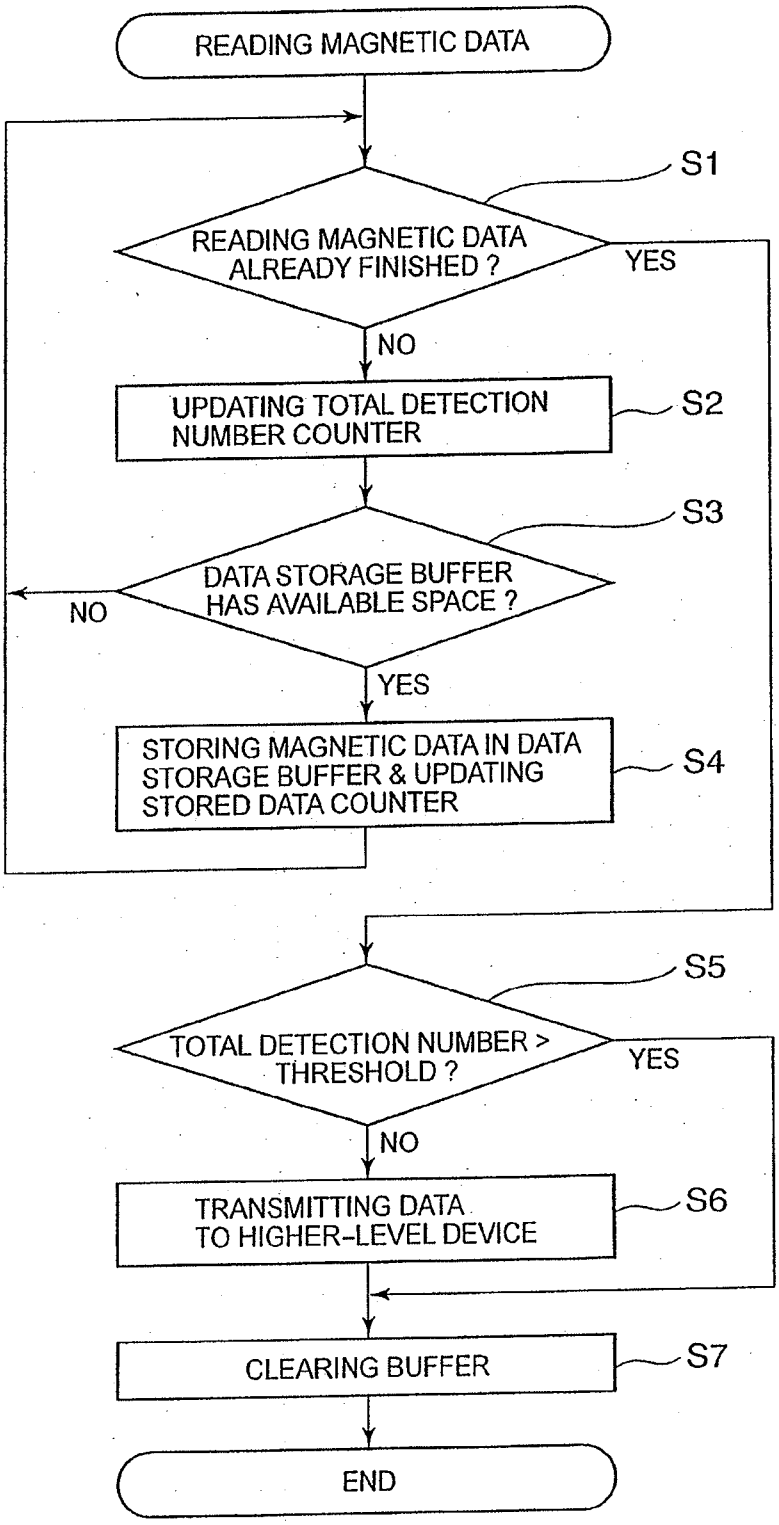

READING MAGNETIC DATA
S1
READING MAGNETIC DATA ALREADY FINISHED ?
YES
NO
UPDATING TOTAL DETECTION NUMBER COUNTER
S2
S3
DATA STORAGE BUFFER HAS AVAILABLE SPACE ?
NO
YES
STORING MAGNETIC DATA IN DATA STORAGE BUFFER & UPDATING STORED DATA COUNTER
S4
S5
TOTAL DETECTION NUMBER > THRESHOLD ?
YES
NO
TRANSMITTING DATA TO HIGHER-LEVEL DEVICE
S6
CLEARING BUFFER
S7
END

FIG. 4

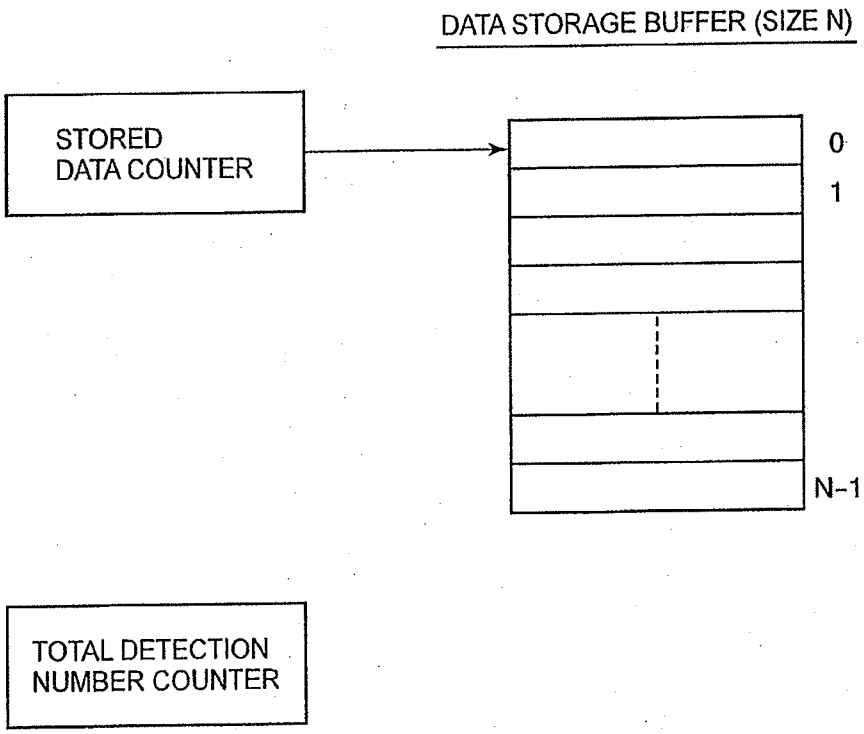
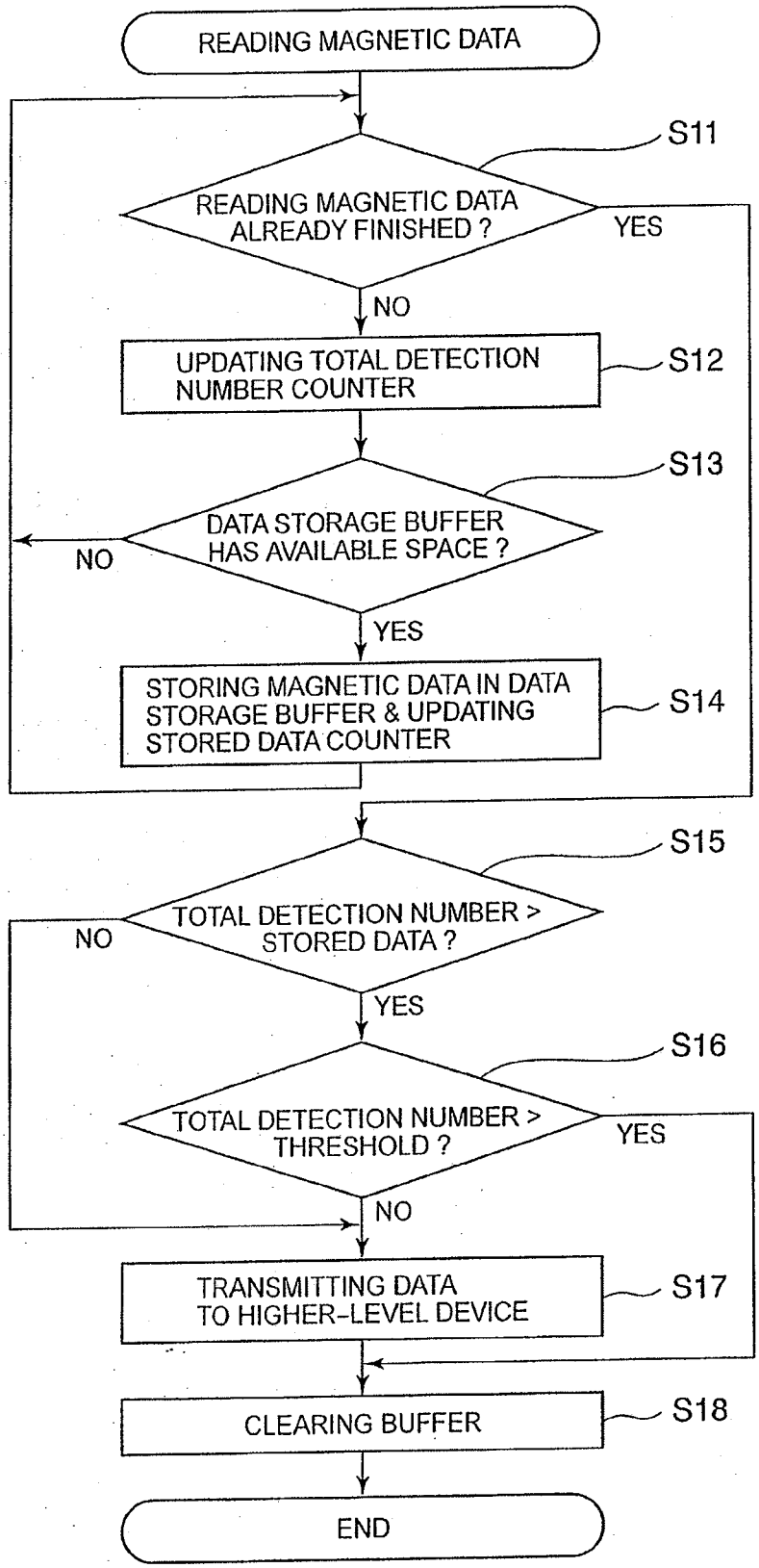

DATA STORAGE BUFFER (SIZE N)
STORED DATA COUNTER
0
1
N-1
TOTAL DETECTION NUMBER COUNTER

FIG. 5


READING MAGNETIC DATA
S11
READING MAGNETIC DATA ALREADY FINISHED ?
YES
NO
UPDATING TOTAL DETECTION NUMBER COUNTER
S12
S13
DATA STORAGE BUFFER HAS AVAILABLE SPACE ?
NO
YES
STORING MAGNETIC DATA IN DATA STORAGE BUFFER & UPDATING STORED DATA COUNTER
S14
S15
TOTAL DETECTION NUMBER > STORED DATA ?
NO
YES
S16
TOTAL DETECTION NUMBER > THRESHOLD ?
YES
NO
TRANSMITTING DATA TO HIGHER-LEVEL DEVICE
S17
CLEARING BUFFER
S18
END