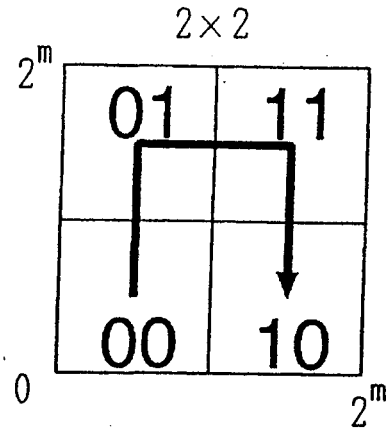
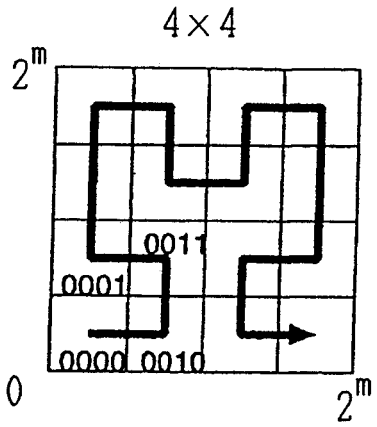
Fig. 1

(a)



(b)



(c)

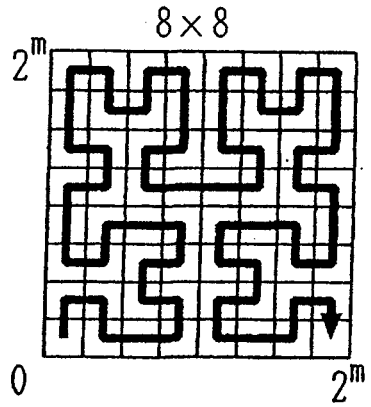


Fig. 2

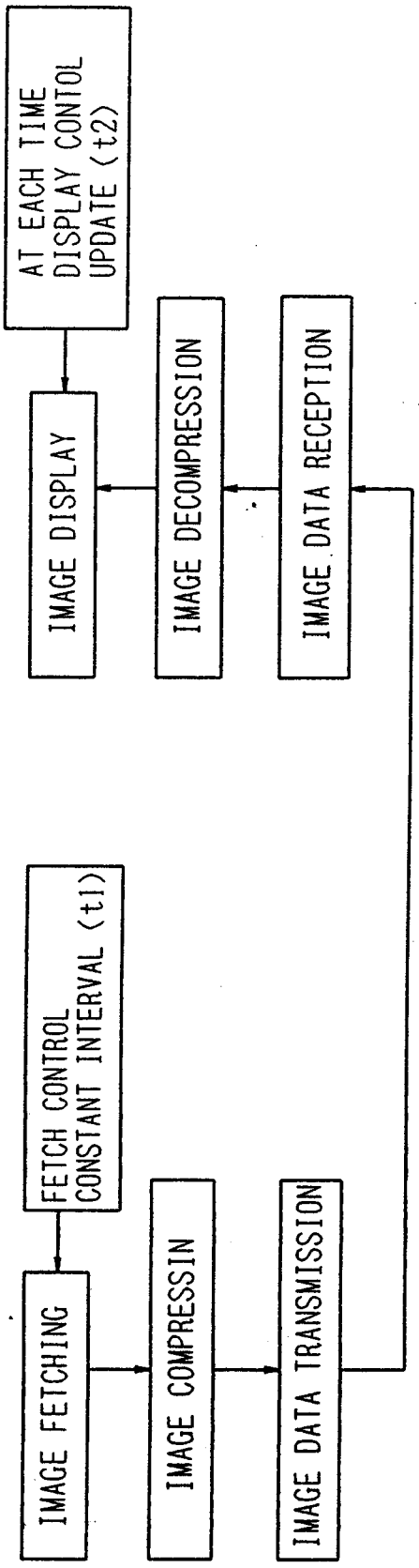

IMAGE FETCHING
FETCH CONTROL CONSTANT INTERVAL (t1)
IMAGE COMPRESSIN
IMAGE DATA TRANSMISSION
IMAGE DATA RECEPTION
IMAGE DECOMPRESSION
IMAGE DISPLAY
AT EACH TIME DISPLAY CONTOL UPDATE (t2)

Fig. 3

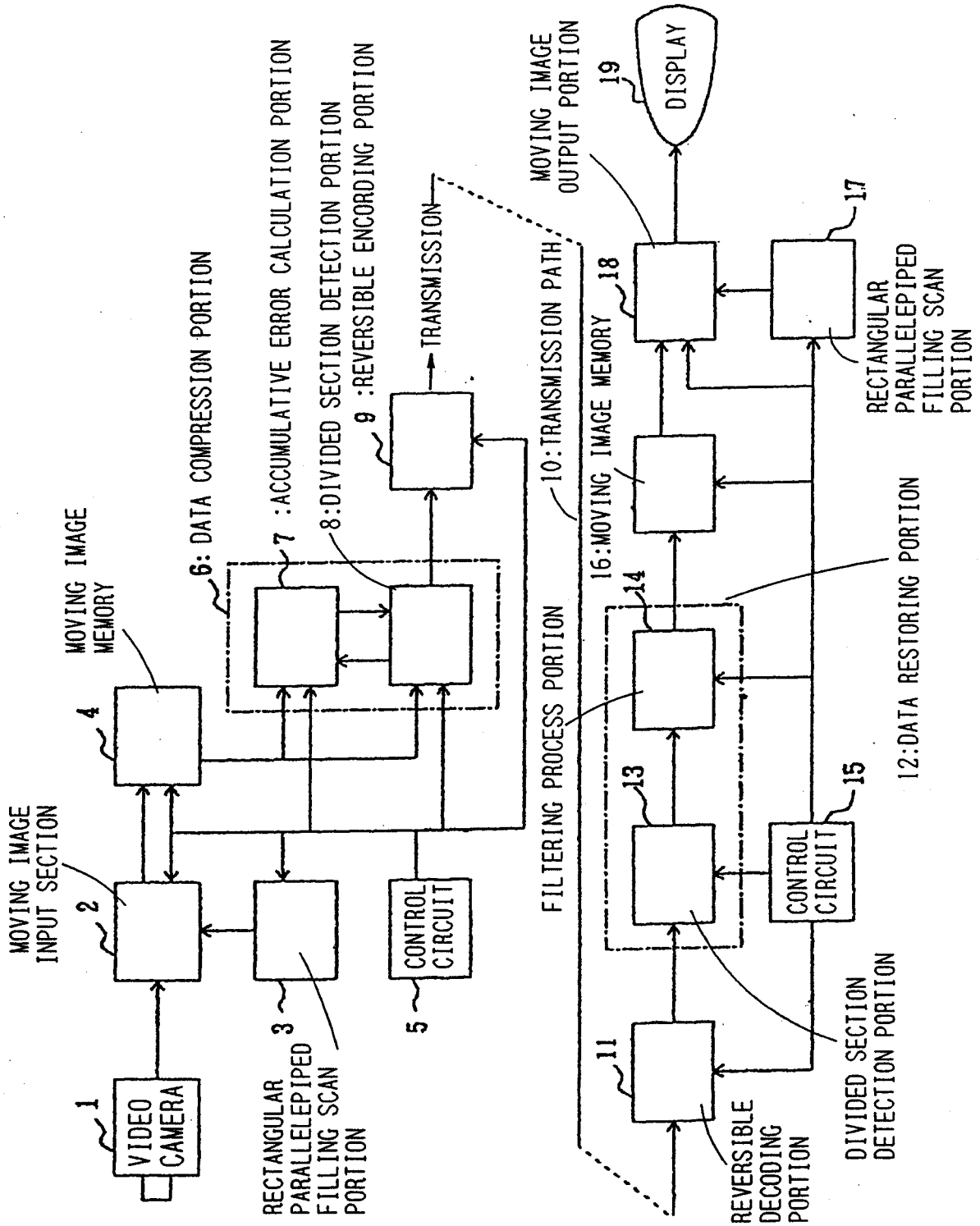
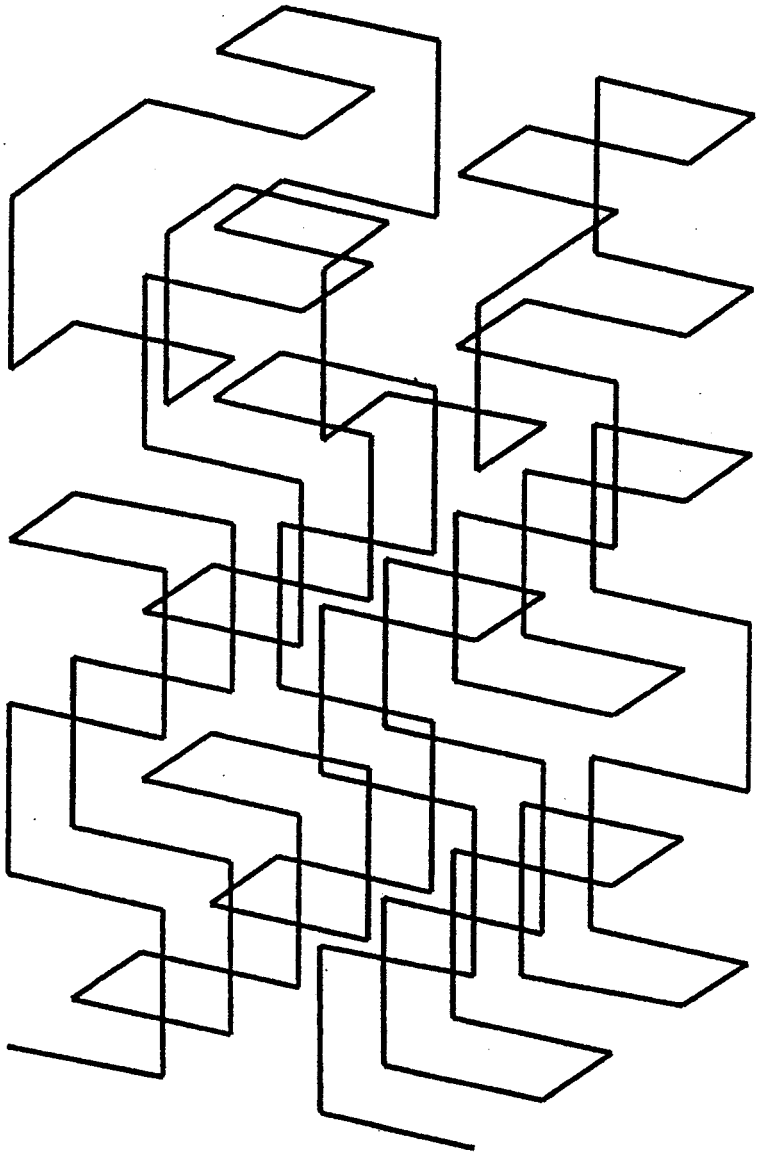
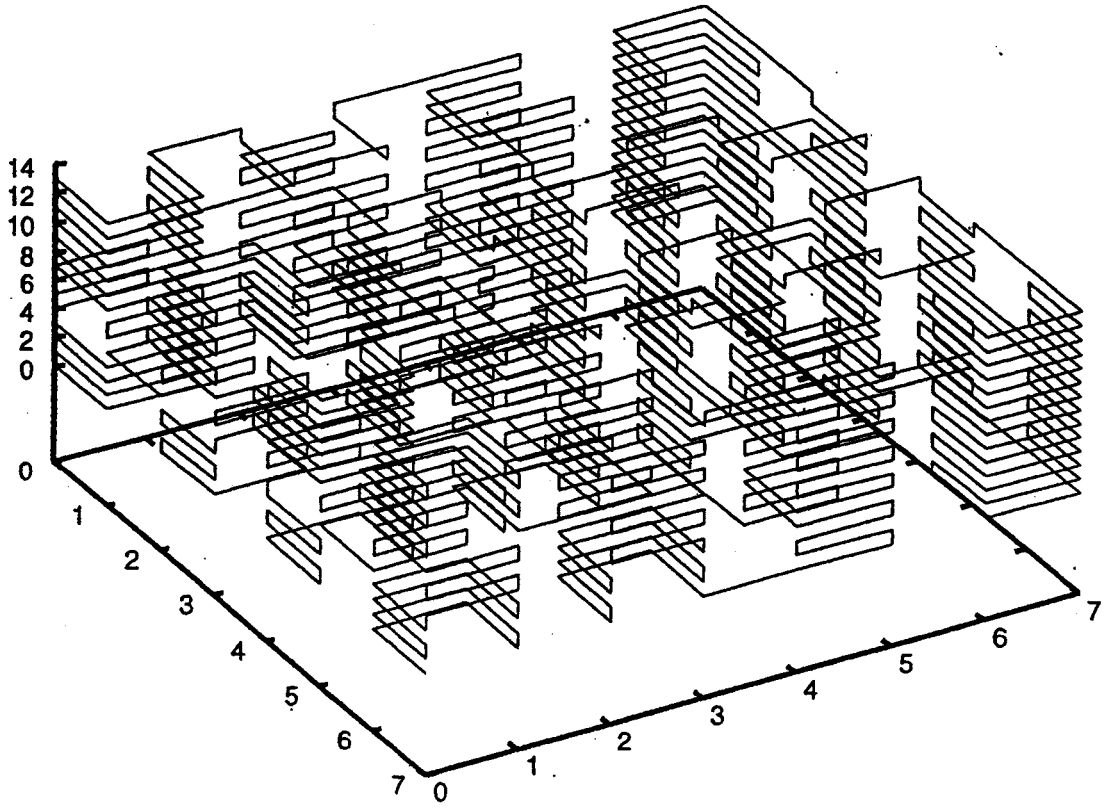

1
VIDEO CAMERA
MOVING IMAGE INPUT SECTION
2
MOVING IMAGE MEMORY
4
RECTANGULAR PARALLELEPIPED FILLING SCAN PORTION
3
CONTROL CIRCUIT
5
6: DATA COMPRESSION PORTION
7 :ACCUMULATIVE ERROR CALCULATION PORTION
8:DIVIDED SECTION DETECTION PORTION
9 :REVERSIBLE ENCORDING PORTION
TRANSMISSION
10:TRANSMISSION PATH
FILTERING PROCESS PORTION
MOVING IMAGE OUTPUT PORTION
19
DISPLAY
16:MOVING IMAGE MEMORY
18
14
12:DATA RESTORING PORTION
17
RECTANGULAR PARALLELEPIPED FILLING SCAN PORTION
13
15
CONTROL CIRCUIT
11
REVERSIBLE DECODING PORTION
DIVIDED SECTION DETECTION PORTION

Fig. 4



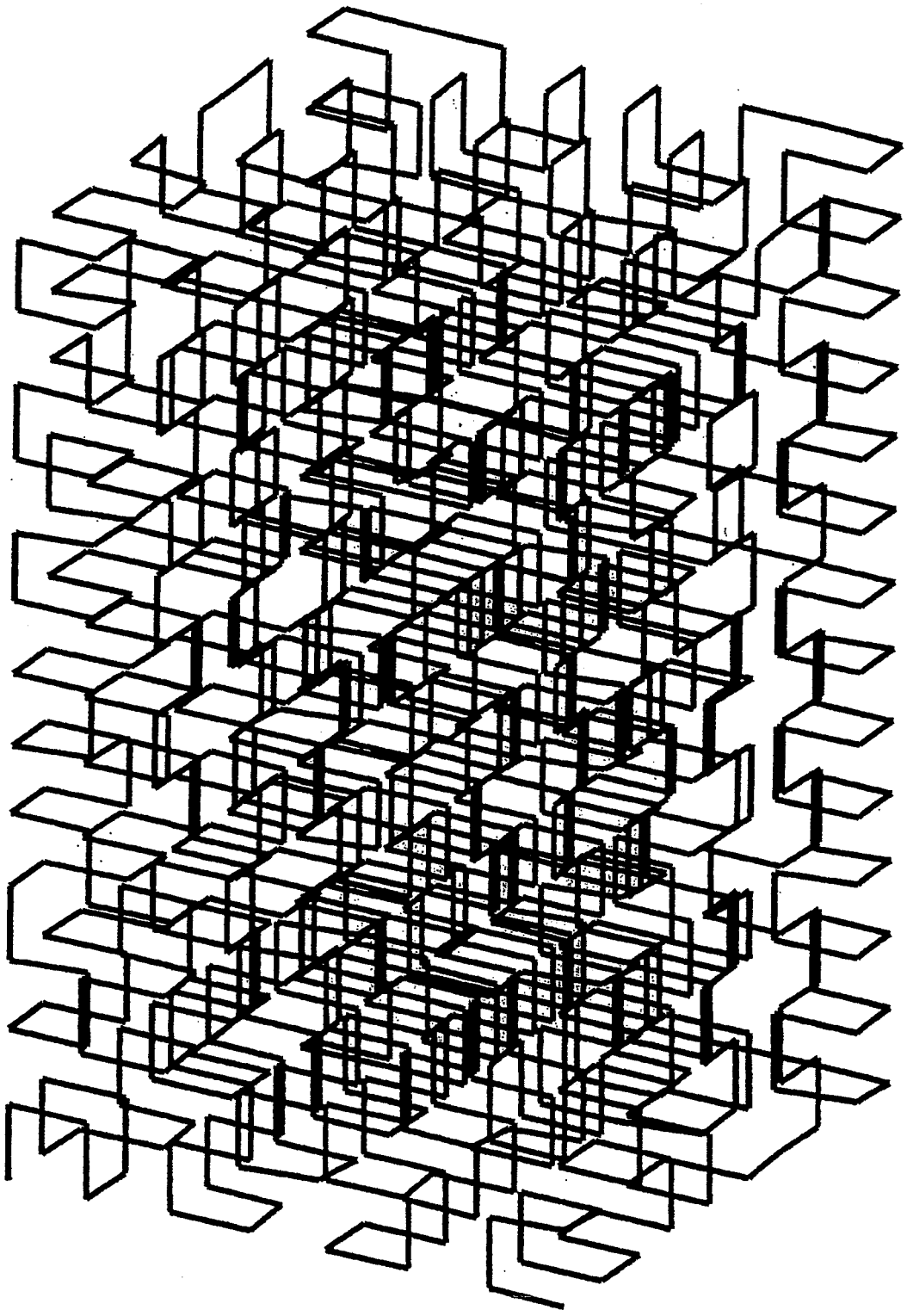
4 × 5 × 6

Fig. 5



8 × 8 × 14

Fig. 6



8 × 10 × 14

Fig. 7

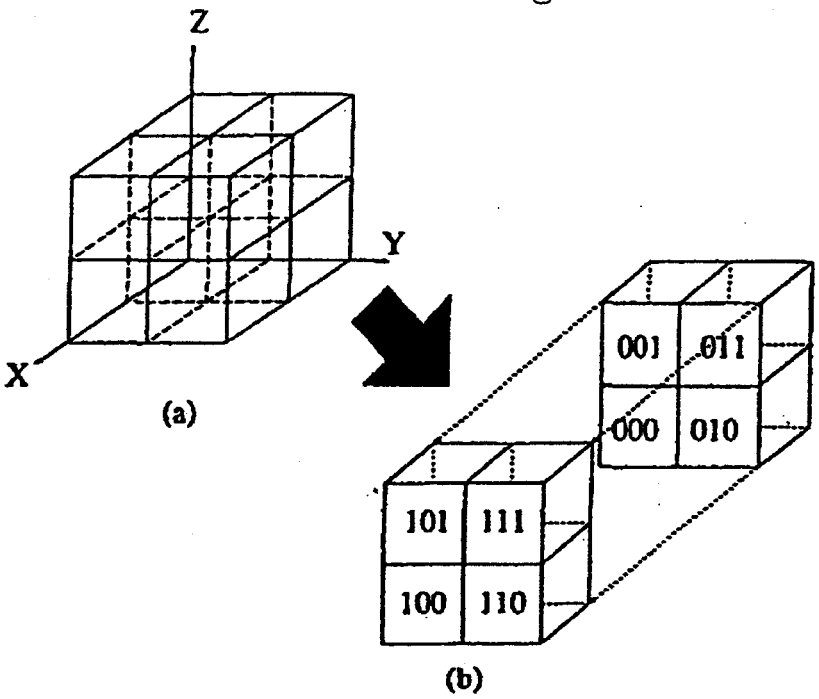


Fig. 8

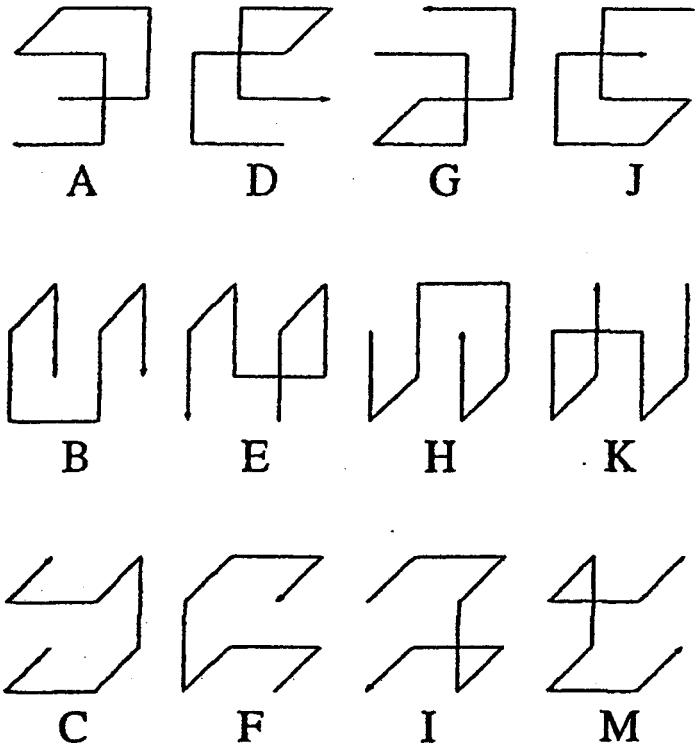


Fig. 9

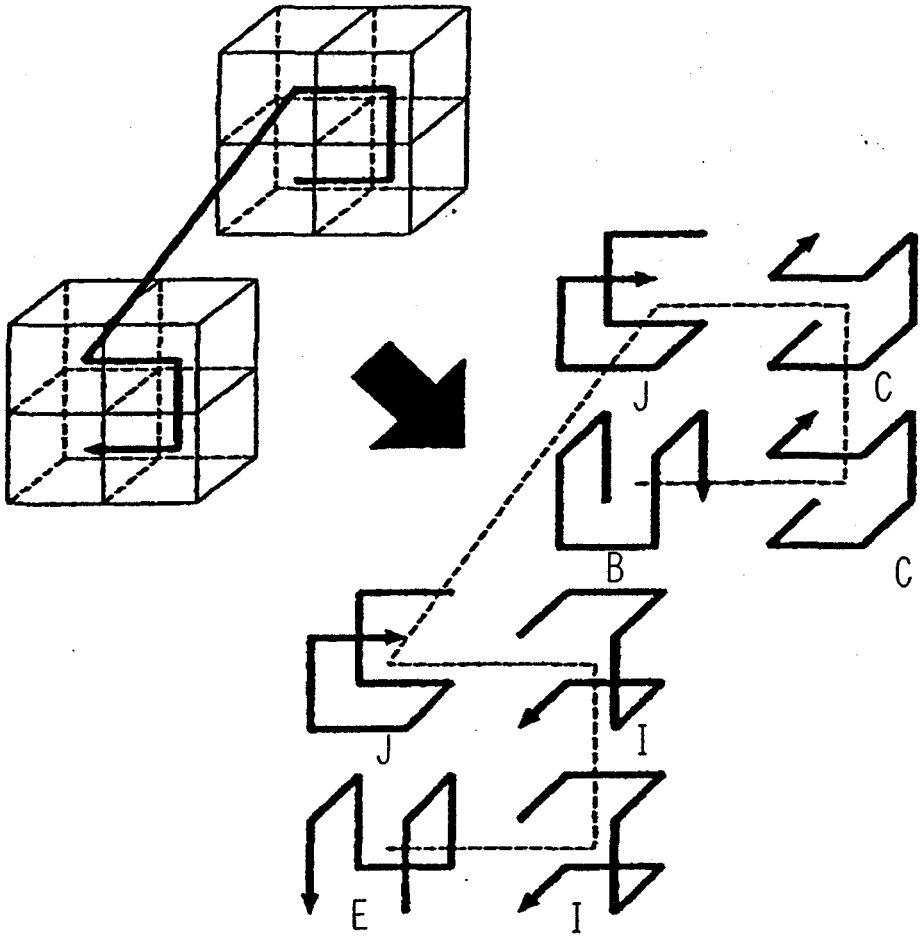


Fig. 10

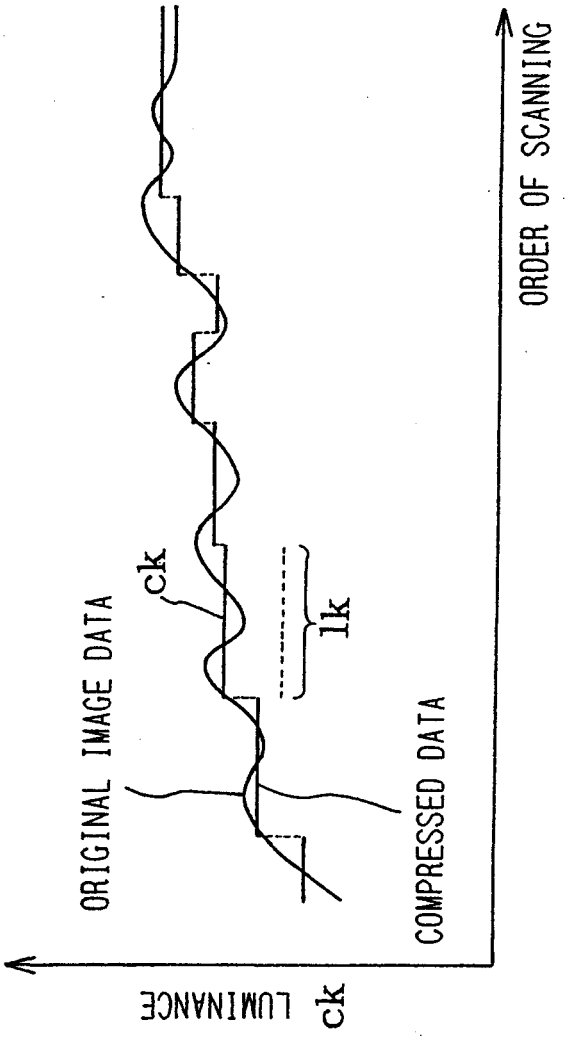

ORIGINAL IMAGE DATA
ck
lk
COMPRESSED DATA
LUMINANCE
ck
ORDER OF SCANNING

Fig. 11

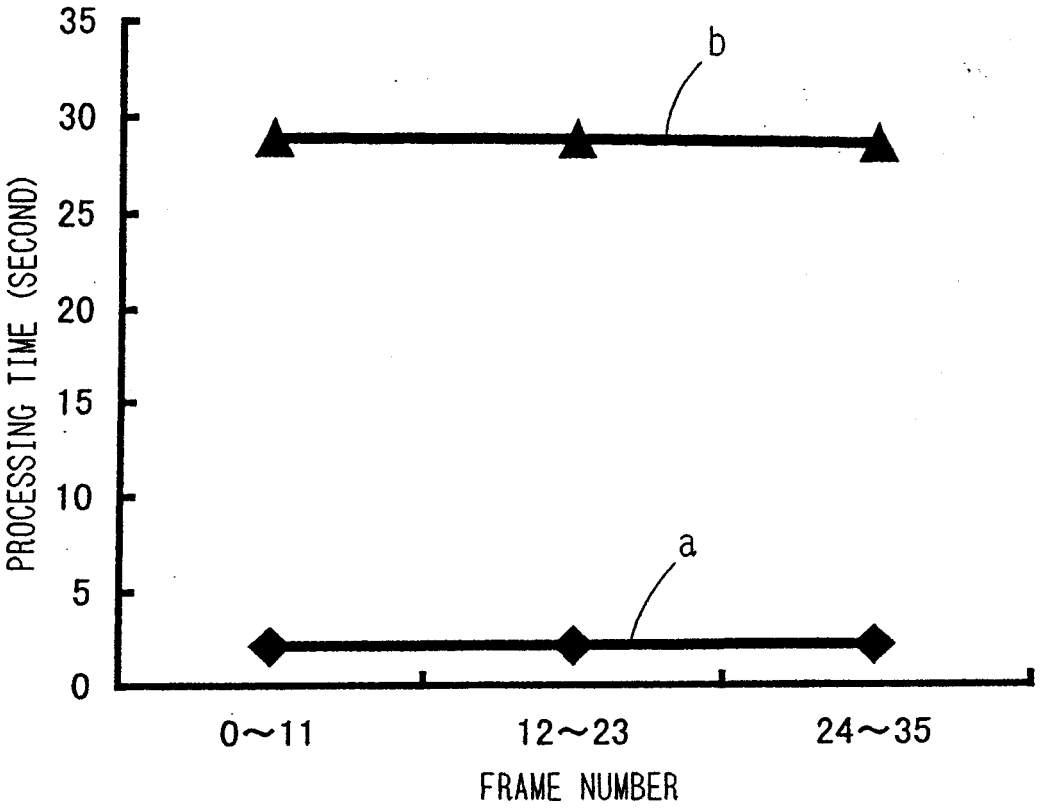

35
30
25
20
15
10
5
0
PROCESSING TIME (SECOND)
b
a
0~11
12~23
24~35
FRAME NUMBER

Fig. 12

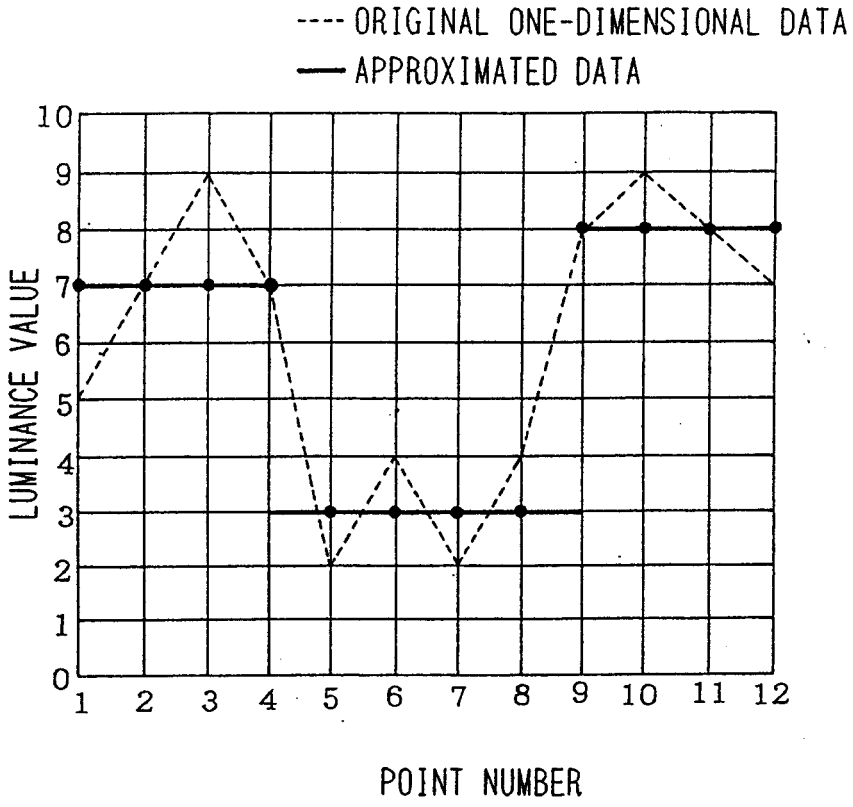
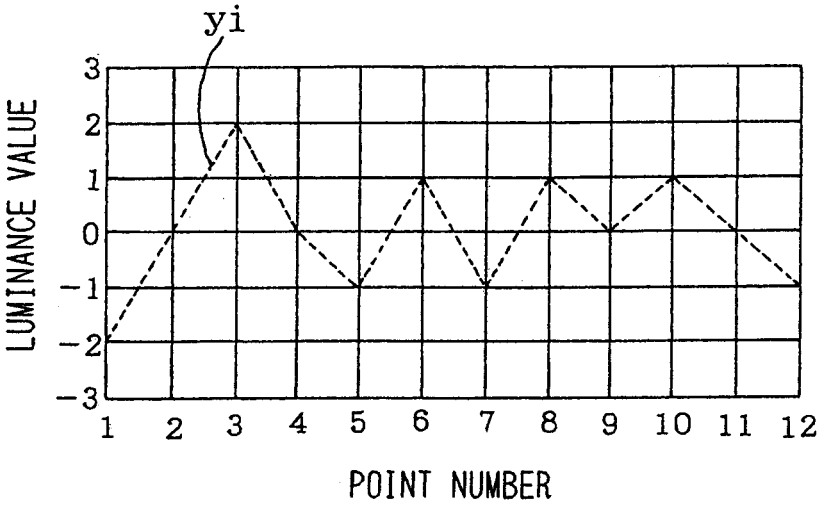

---- ORIGINAL ONE-DIMENSIONAL DATA
— APPROXIMATED DATA
LUMINANCE VALUE
0
1
2
3
4
5
6
7
8
9
10
1 2 3 4 5 6 7 8 9 10 11 12
POINT NUMBER

Fig. 13


yi
LUMINANCE VALUE
3
2
1
0
−1
−2
−3
1 2 3 4 5 6 7 8 9 10 11 12
POINT NUMBER

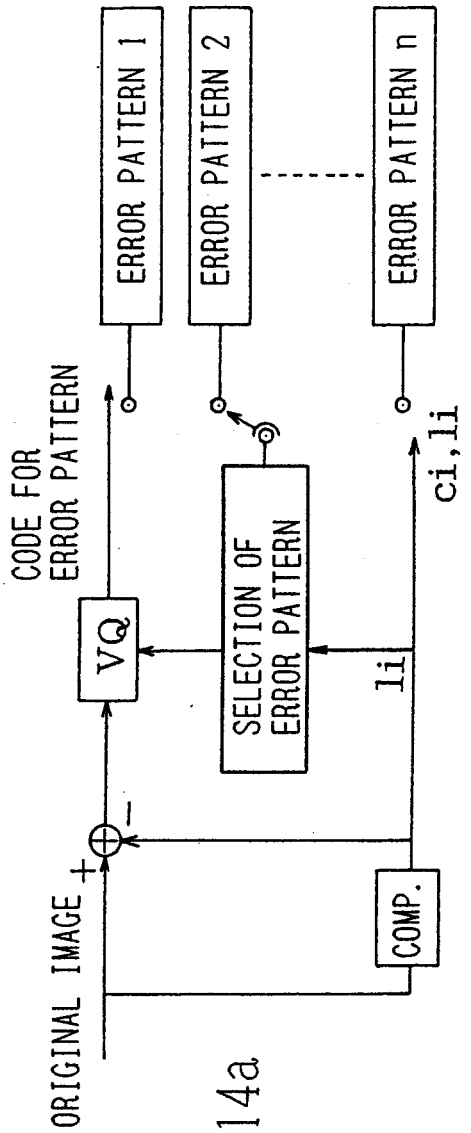


Fig. 14a

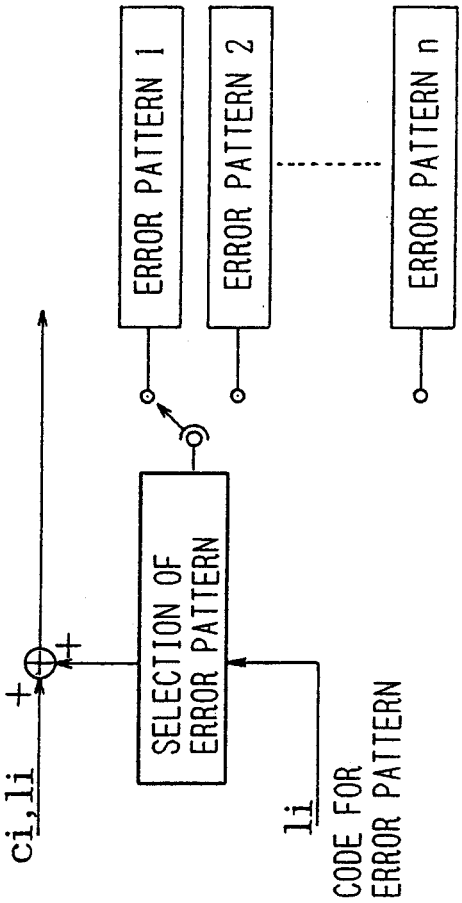


Fig. 14b

Fig. 15

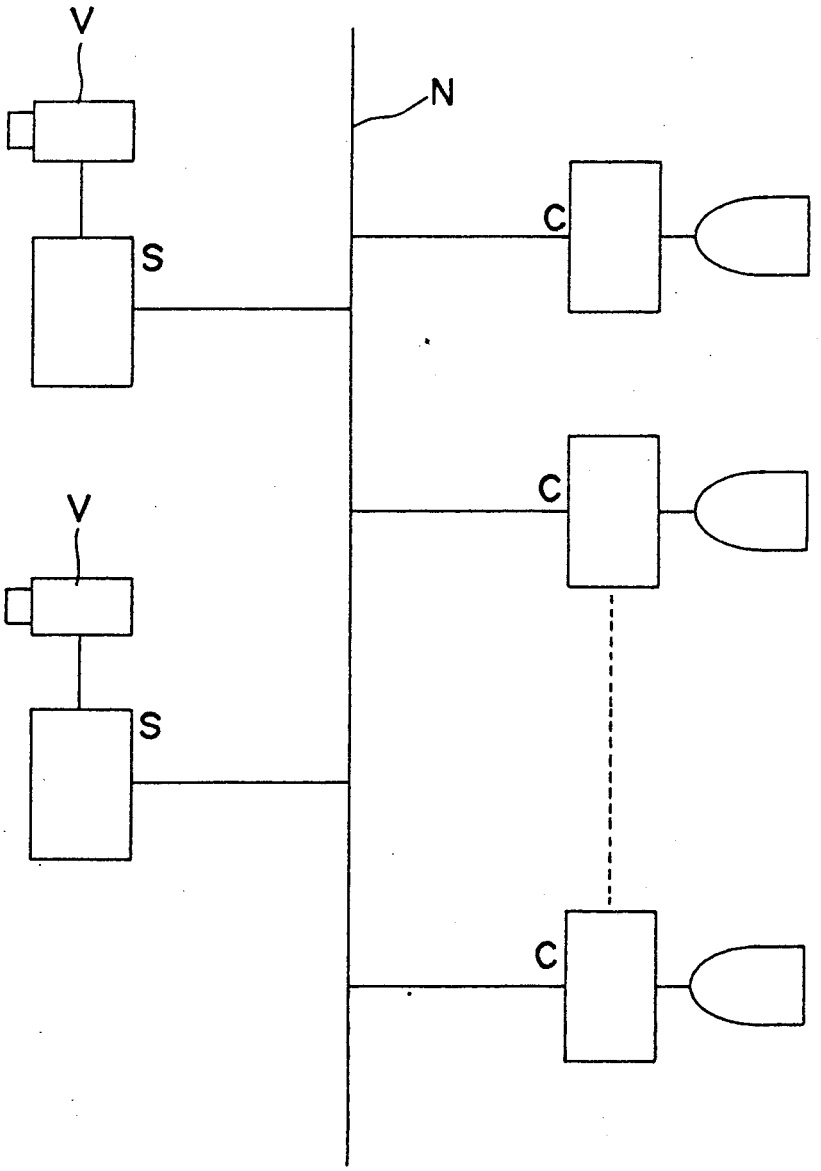


Fig. 16

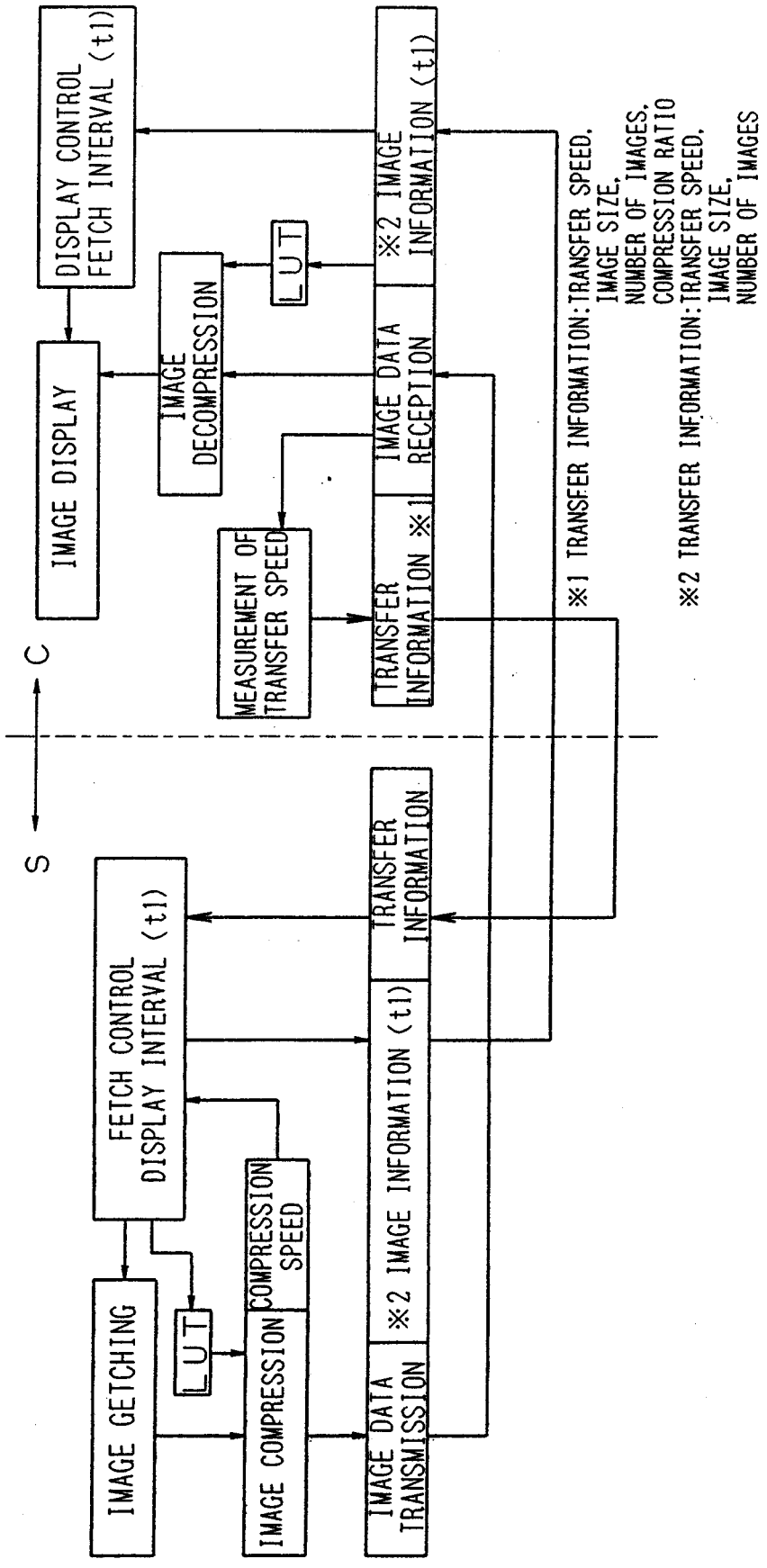

S
C
IMAGE GETCHING
LUT
IMAGE COMPRESSION
COMPRESSION SPEED
FETCH CONTROL DISPLAY INTERVAL (t1)
IMAGE DATA TRANSMISSION
※2 IMAGE INFORMATION (t1)
TRANSFER INFORMATION
IMAGE DISPLAY
IMAGE DECOMPRESSION
LUT
MEASUREMENT OF TRANSFER SPEED
TRANSFER INFORMATION ※1
IMAGE DATA RECEPTION
※2 IMAGE INFORMATION (t1)
DISPLAY CONTROL FETCH INTERVAL (t1)
※1 TRANSFER INFORMATION:TRANSFER SPEED, IMAGE SIZE, NUMBER OF IMAGES, COMPRESSION RATIO
※2 TRANSFER INFORMATION:TRANSFER SPEED, IMAGE SIZE, NUMBER OF IMAGES

Fig. 17

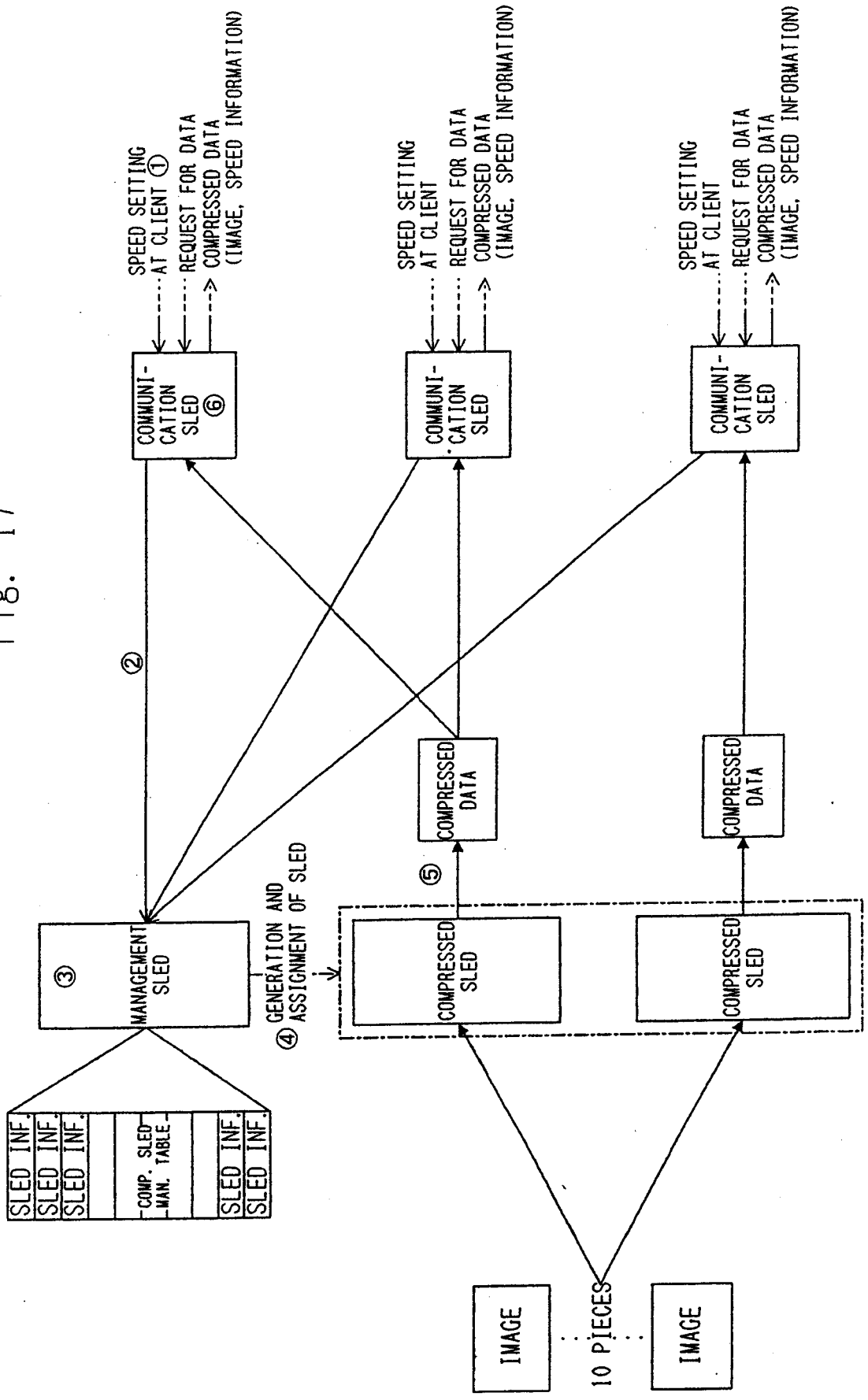

SPEED SETTING
AT CLIENT ①
REQUEST FOR DATA
COMPRESSED DATA
(IMAGE, SPEED INFORMATION)
COMMUNI-CATION SLED ⑥
COMMUNI-CATION SLED
COMMUNI-CATION SLED
②
③ MANAGEMENT SLED
④ GENERATION AND ASSIGNMENT OF SLED
⑤
COMPRESSED DATA
COMPRESSED DATA
COMPRESSED SLED
COMPRESSED SLED
SLED INF.
SLED INF.
SLED INF.
COMP. SLED MAN. TABLE
SLED INF.
SLED INF.
IMAGE
10 PIECES
IMAGE

Fig. 18

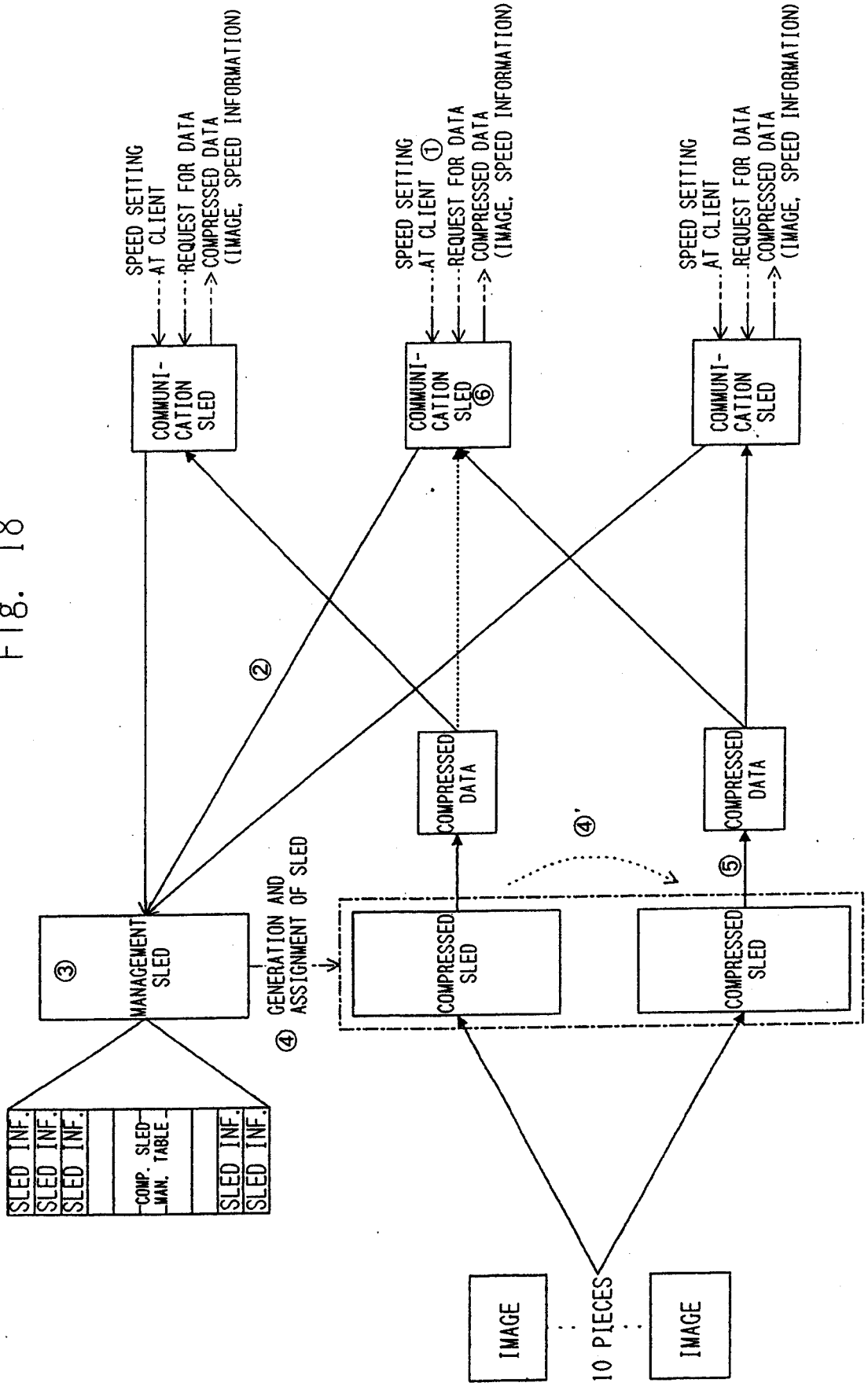

SPEED SETTING
AT CLIENT
REQUEST FOR DATA
COMPRESSED DATA
(IMAGE, SPEED INFORMATION)
COMMUNI-CATION SLED
SPEED SETTING AT CLIENT ①
REQUEST FOR DATA
COMPRESSED DATA
(IMAGE, SPEED INFORMATION)
COMMUNI-CATION SLED ⑥
SPEED SETTING
AT CLIENT
REQUEST FOR DATA
COMPRESSED DATA
(IMAGE, SPEED INFORMATION)
COMMUNI-CATION SLED
②
③
MANAGEMENT SLED
④ GENERATION AND ASSIGNMENT OF SLED
SLED INF.
SLED INF.
SLED INF.
COMP. SLED MAN. TABLE
SLED INF.
SLED INF.
COMPRESSED DATA
COMPRESSED DATA
④'
⑤
COMPRESSED SLED
COMPRESSED SLED
IMAGE
10 PIECES
IMAGE

Fig. 19

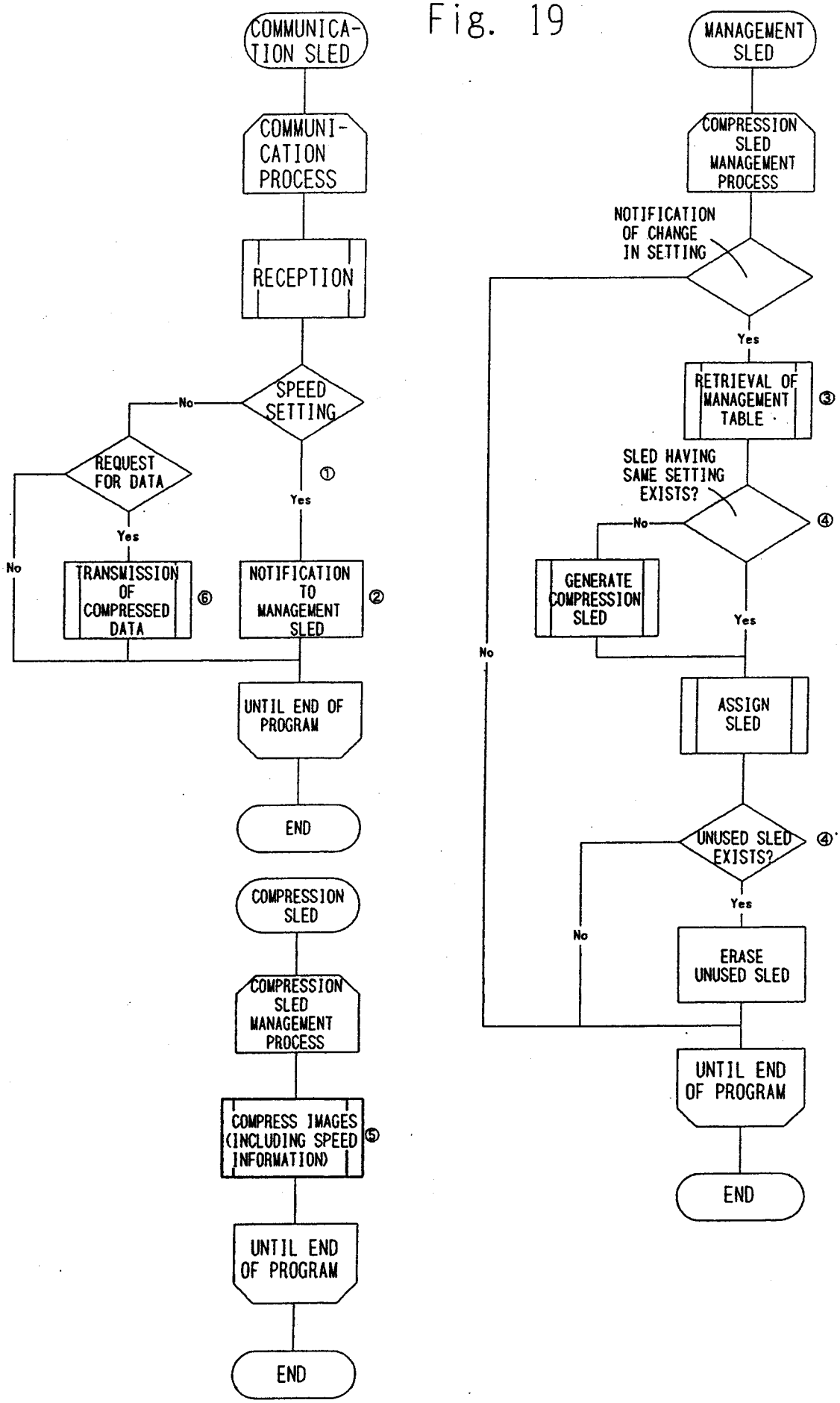

COMMUNICATION SLED
COMMUNICATION PROCESS
RECEPTION
SPEED SETTING
No
Yes
①
REQUEST FOR DATA
No
Yes
TRANSMISSION OF COMPRESSED DATA
⑥
NOTIFICATION TO MANAGEMENT SLED
②
UNTIL END OF PROGRAM
END
COMPRESSION SLED
COMPRESSION SLED MANAGEMENT PROCESS
COMPRESS IMAGES (INCLUDING SPEED INFORMATION)
⑤
UNTIL END OF PROGRAM
END
MANAGEMENT SLED
COMPRESSION SLED MANAGEMENT PROCESS
NOTIFICATION OF CHANGE IN SETTING
No
Yes
RETRIEVAL OF MANAGEMENT TABLE
③
SLED HAVING SAME SETTING EXISTS?
No
④
Yes
GENERATE COMPRESSION SLED
ASSIGN SLED
UNUSED SLED EXISTS?
④'
No
Yes
ERASE UNUSED SLED
UNTIL END OF PROGRAM
END

Fig. 20

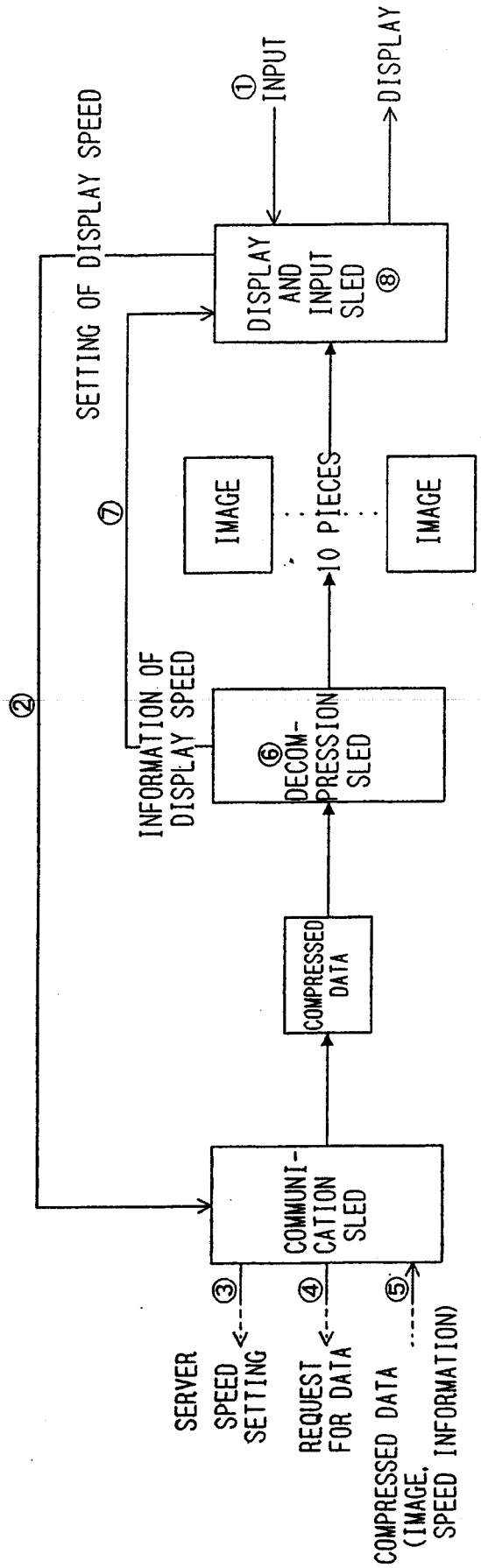

① INPUT
DISPLAY
SETTING OF DISPLAY SPEED
DISPLAY AND INPUT SLED ⑧
IMAGE
10 PIECES
IMAGE
⑦
②
INFORMATION OF DISPLAY SPEED
⑥ DECOM-PRESSION SLED
COMPRESSED DATA
COMMUNI-CATION SLED
③
④
⑤
SERVER SPEED SETTING
REQUEST FOR DATA
COMPRESSED DATA (IMAGE, SPEED INFORMATION)

Fig. 21

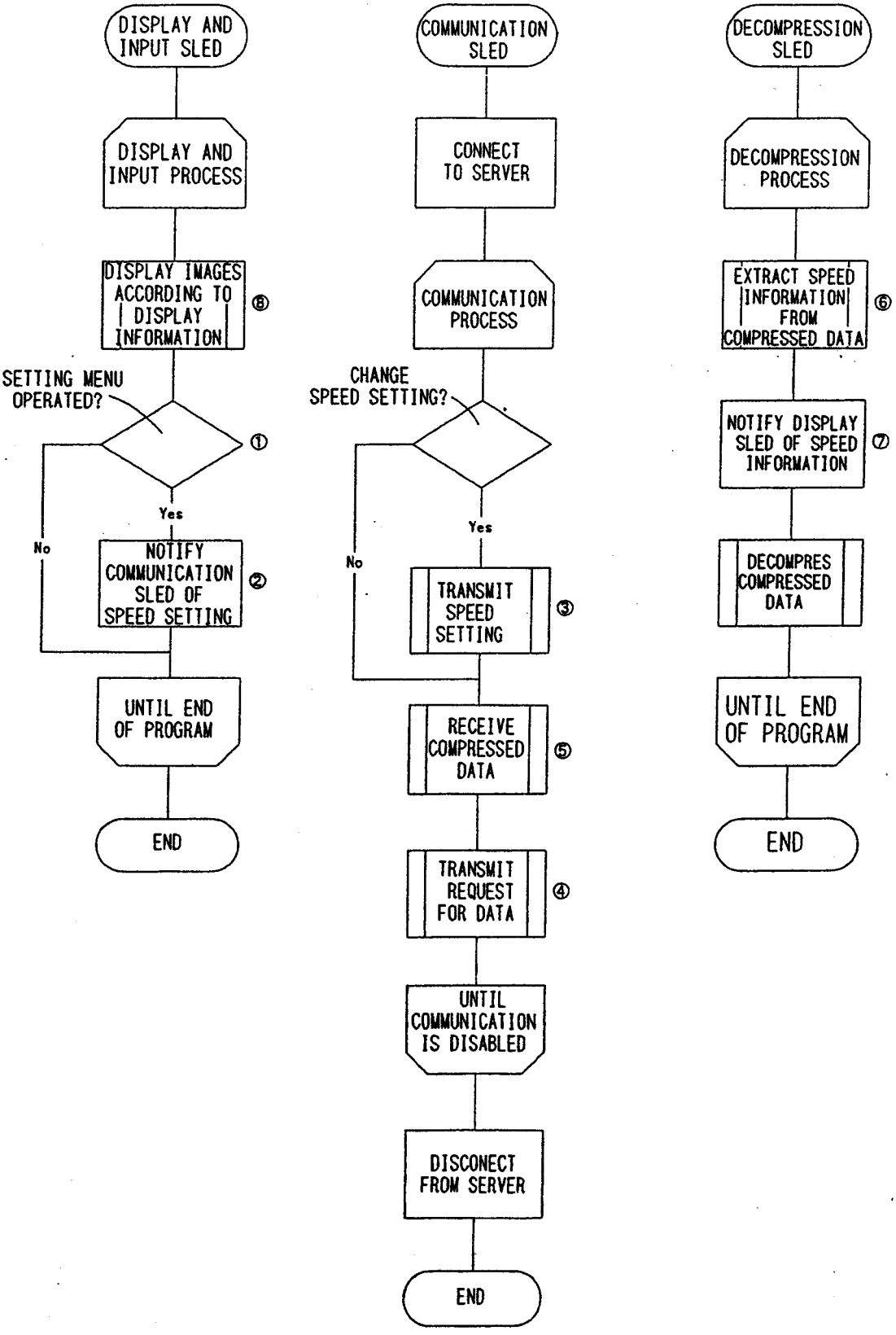

DISPLAY AND INPUT SLED
DISPLAY AND INPUT PROCESS
DISPLAY IMAGES ACCORDING TO DISPLAY INFORMATION
⑥
SETTING MENU OPERATED?
①
Yes
No
NOTIFY COMMUNICATION SLED OF SPEED SETTING
②
UNTIL END OF PROGRAM
END
COMMUNICATION SLED
CONNECT TO SERVER
COMMUNICATION PROCESS
CHANGE SPEED SETTING?
Yes
No
TRANSMIT SPEED SETTING
③
RECEIVE COMPRESSED DATA
⑤
TRANSMIT REQUEST FOR DATA
④
UNTIL COMMUNICATION IS DISABLED
DISCONECT FROM SERVER
END
DECOMPRESSION SLED
DECOMPRESSION PROCESS
EXTRACT SPEED INFORMATION FROM COMPRESSED DATA
⑥
NOTIFY DISPLAY SLED OF SPEED INFORMATION
⑦
DECOMPRES COMPRESSED DATA
UNTIL END OF PROGRAM
END

Fig. 22

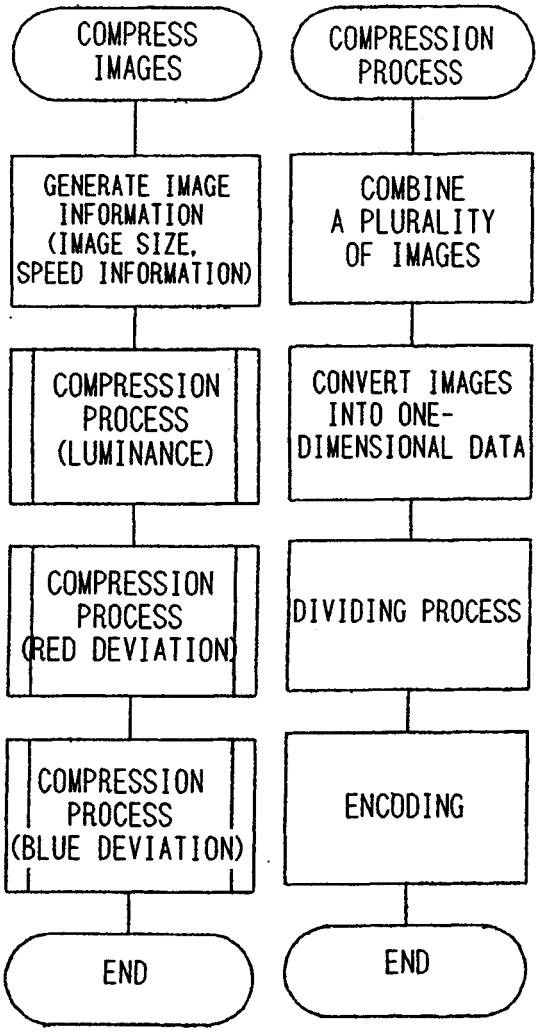
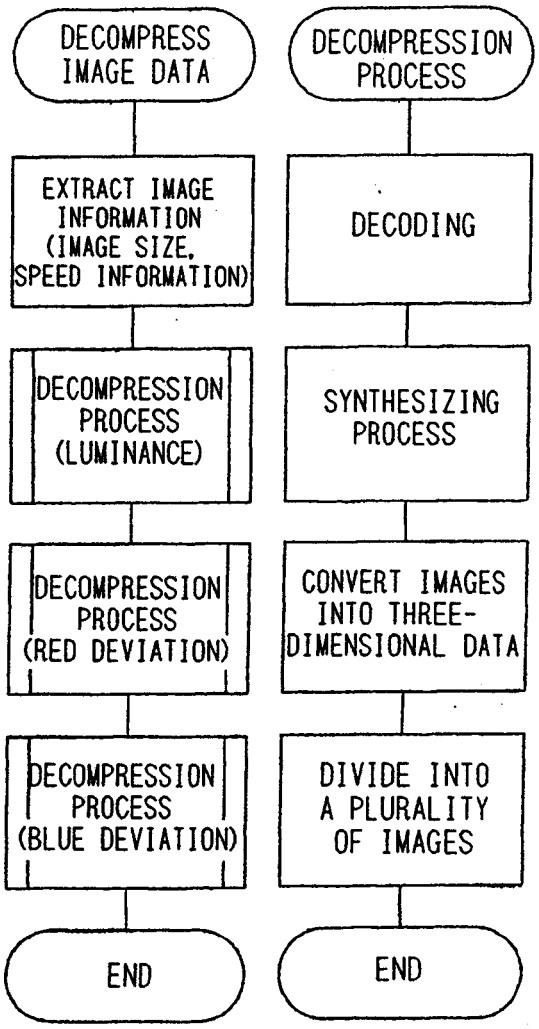

COMPRESS IMAGES
GENERATE IMAGE INFORMATION (IMAGE SIZE, SPEED INFORMATION)
COMPRESSION PROCESS (LUMINANCE)
COMPRESSION PROCESS (RED DEVIATION)
COMPRESSION PROCESS (BLUE DEVIATION)
END
COMPRESSION PROCESS
COMBINE A PLURALITY OF IMAGES
CONVERT IMAGES INTO ONE-DIMENSIONAL DATA
DIVIDING PROCESS
ENCODING
END

Fig. 23


DECOMPRESS IMAGE DATA
EXTRACT IMAGE INFORMATION (IMAGE SIZE, SPEED INFORMATION)
DECOMPRESSION PROCESS (LUMINANCE)
DECOMPRESSION PROCESS (RED DEVIATION)
DECOMPRESSION PROCESS (BLUE DEVIATION)
END
DECOMPRESSION PROCESS
DECODING
SYNTHESIZING PROCESS
CONVERT IMAGES INTO THREE-DIMENSIONAL DATA
DIVIDE INTO A PLURALITY OF IMAGES
END