FIG.1

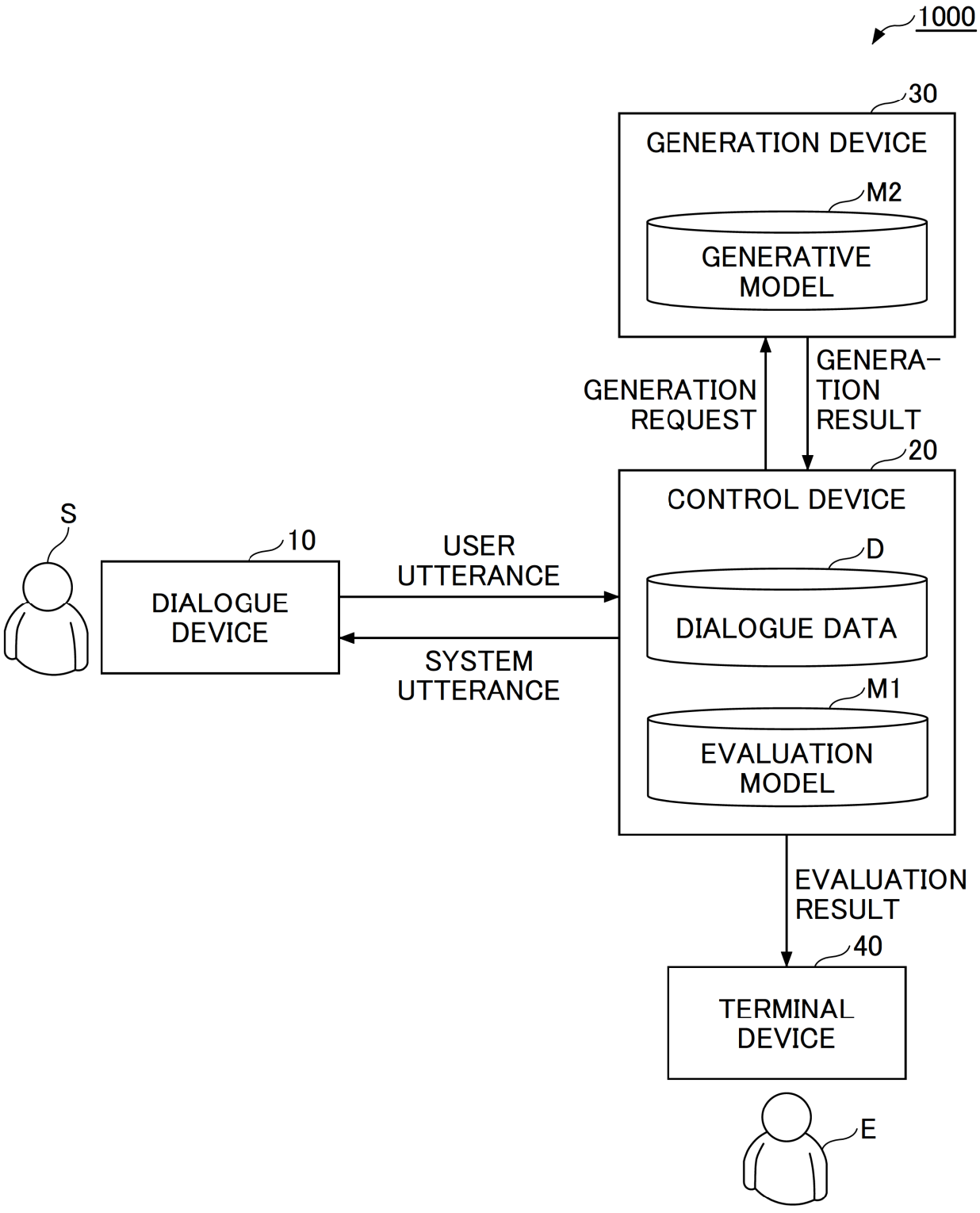

1000
30
GENERATION DEVICE
M2
GENERATIVE MODEL
GENERATION REQUEST
GENERA-TION RESULT
20
CONTROL DEVICE
S
10
DIALOGUE DEVICE
USER UTTERANCE
SYSTEM UTTERANCE
D
DIALOGUE DATA
M1
EVALUATION MODEL
EVALUATION RESULT
40
TERMINAL DEVICE
E

FIG.2

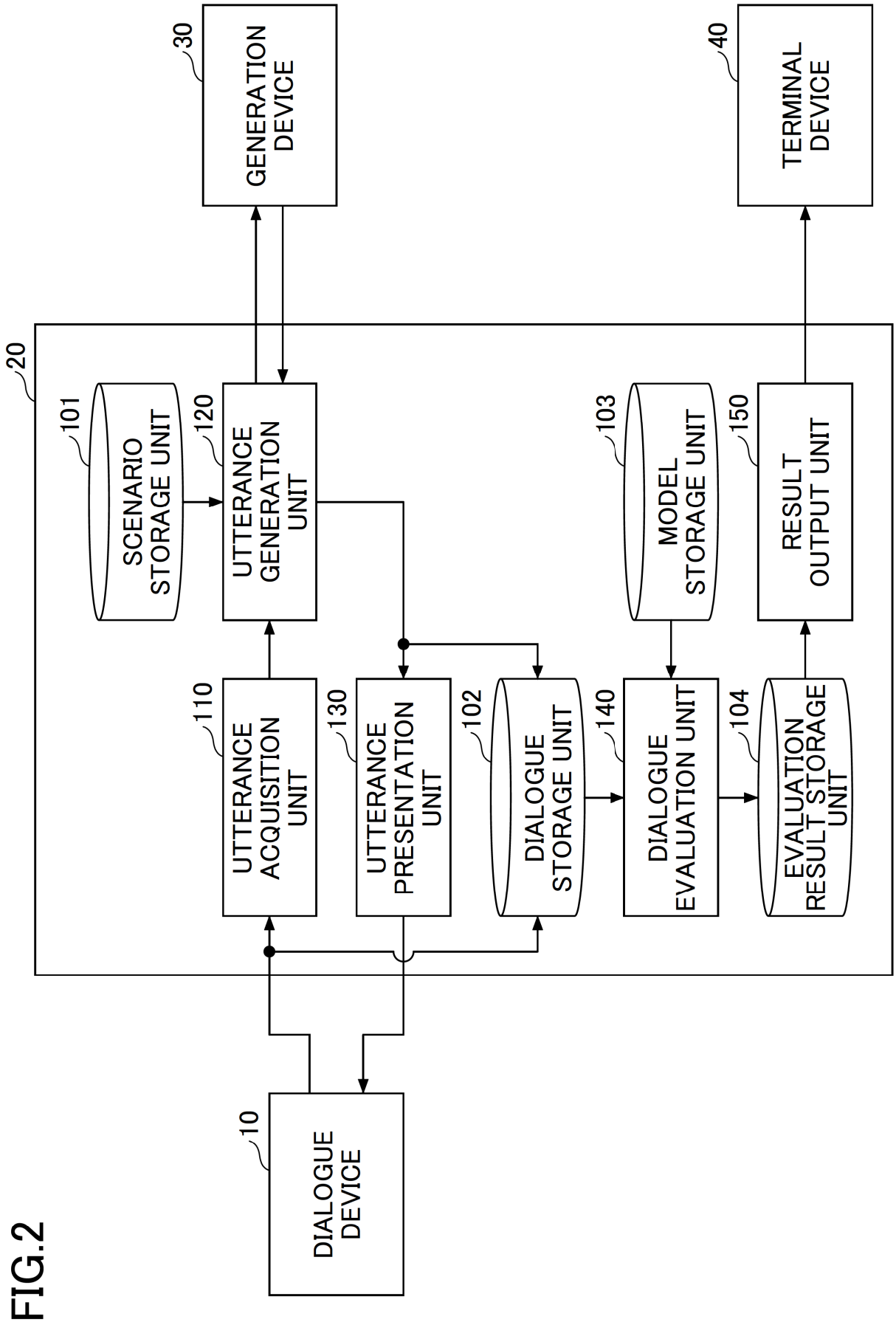

30
GENERATION DEVICE
40
TERMINAL DEVICE
20
101
SCENARIO STORAGE UNIT
120
UTTERANCE GENERATION UNIT
103
MODEL STORAGE UNIT
150
RESULT OUTPUT UNIT
110
UTTERANCE ACQUISITION UNIT
130
UTTERANCE PRESENTATION UNIT
102
DIALOGUE STORAGE UNIT
140
DIALOGUE EVALUATION UNIT
104
EVALUATION RESULT STORAGE UNIT
10
DIALOGUE DEVICE

FIG.3

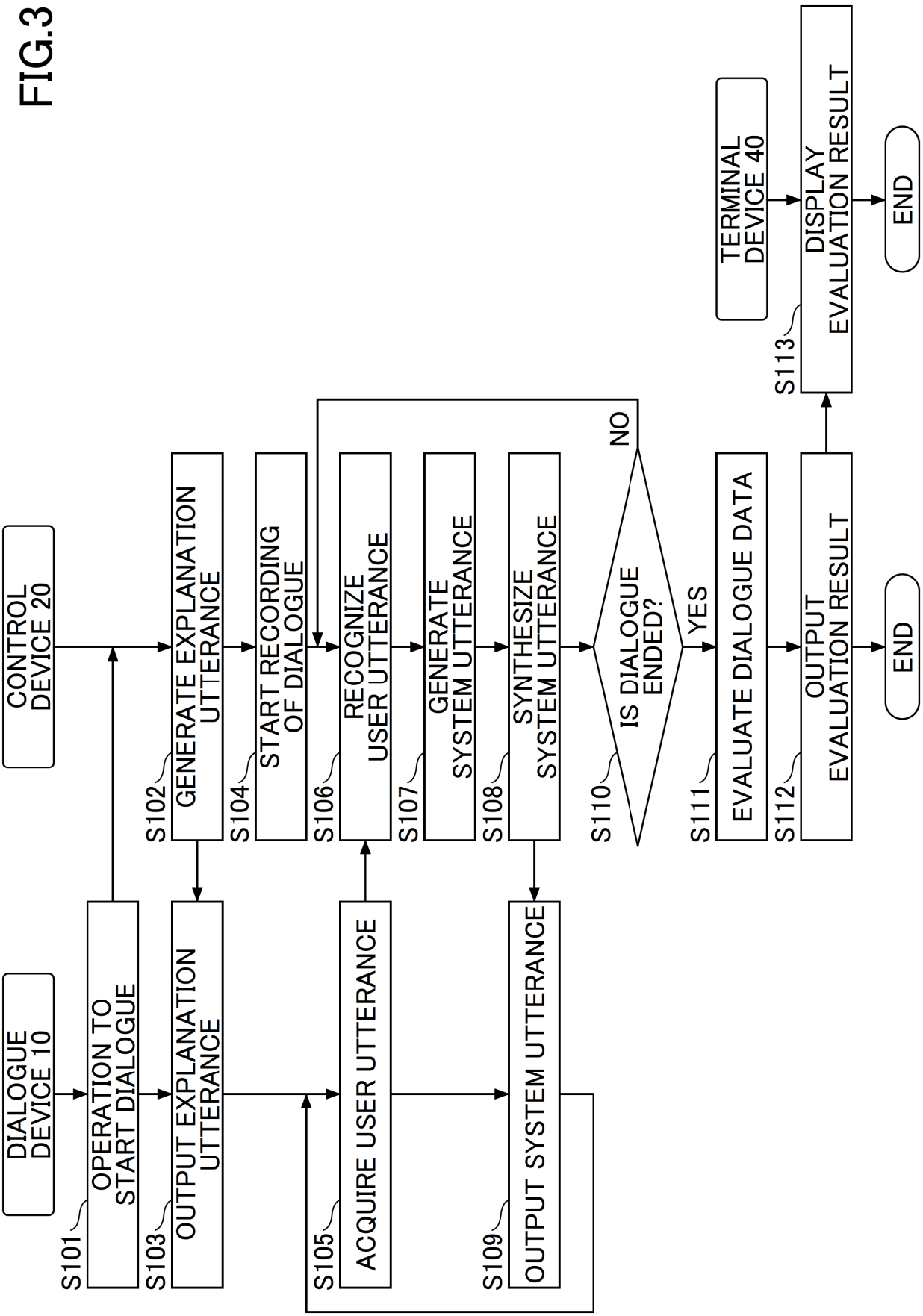

DIALOGUE DEVICE 10
CONTROL DEVICE 20
TERMINAL DEVICE 40
S101
OPERATION TO START DIALOGUE
S102
GENERATE EXPLANATION UTTERANCE
S103
OUTPUT EXPLANATION UTTERANCE
S104
START RECORDING OF DIALOGUE
S105
ACQUIRE USER UTTERANCE
S106
RECOGNIZE USER UTTERANCE
S107
GENERATE SYSTEM UTTERANCE
S108
SYNTHESIZE SYSTEM UTTERANCE
S109
OUTPUT SYSTEM UTTERANCE
S110
IS DIALOGUE ENDED?
NO
YES
S111
EVALUATE DIALOGUE DATA
S112
OUTPUT EVALUATION RESULT
S113
DISPLAY EVALUATION RESULT
END
END

FIG.4

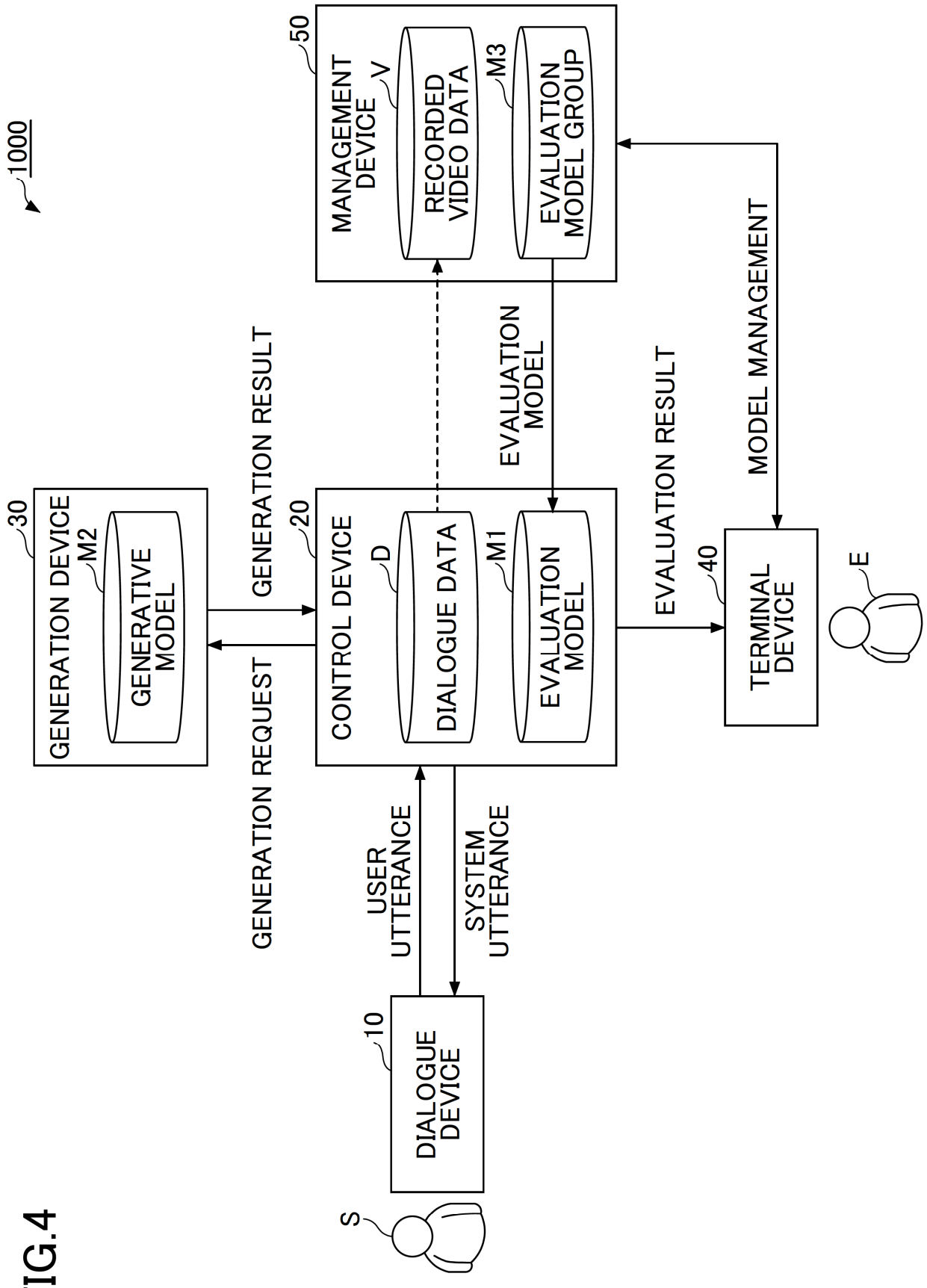

1000
50
MANAGEMENT DEVICE
V
RECORDED VIDEO DATA
M3
EVALUATION MODEL GROUP
30
GENERATION DEVICE
M2
GENERATIVE MODEL
20
CONTROL DEVICE
D
DIALOGUE DATA
M1
EVALUATION MODEL
40
TERMINAL DEVICE
E
S
10
DIALOGUE DEVICE
GENERATION RESULT
GENERATION REQUEST
EVALUATION MODEL
EVALUATION RESULT
MODEL MANAGEMENT
USER UTTERANCE
SYSTEM UTTERANCE

FIG.5

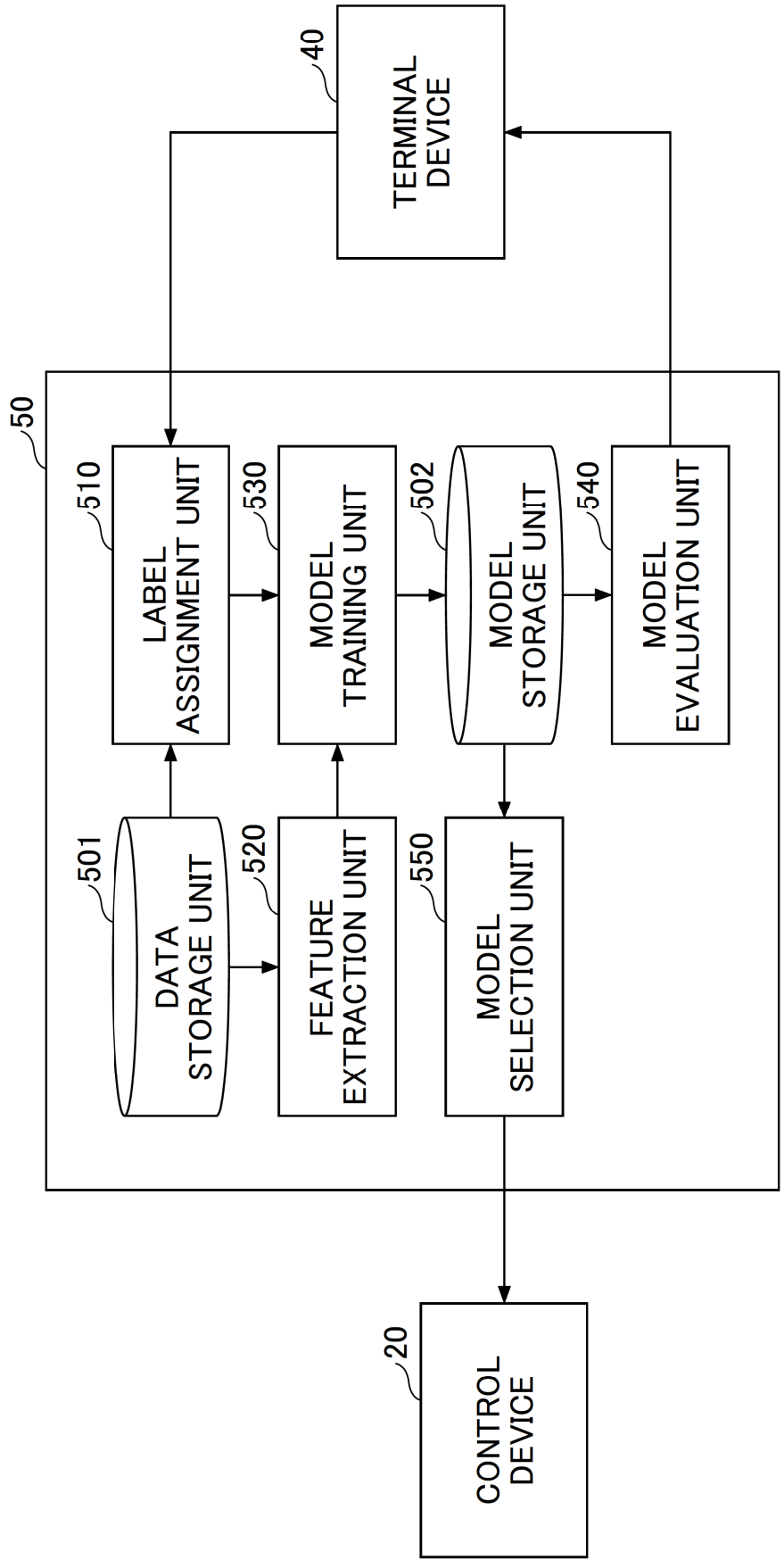

40
TERMINAL DEVICE
50
510
LABEL ASSIGNMENT UNIT
530
MODEL TRAINING UNIT
502
MODEL STORAGE UNIT
540
MODEL EVALUATION UNIT
501
DATA STORAGE UNIT
520
FEATURE EXTRACTION UNIT
550
MODEL SELECTION UNIT
20
CONTROL DEVICE

FIG.6

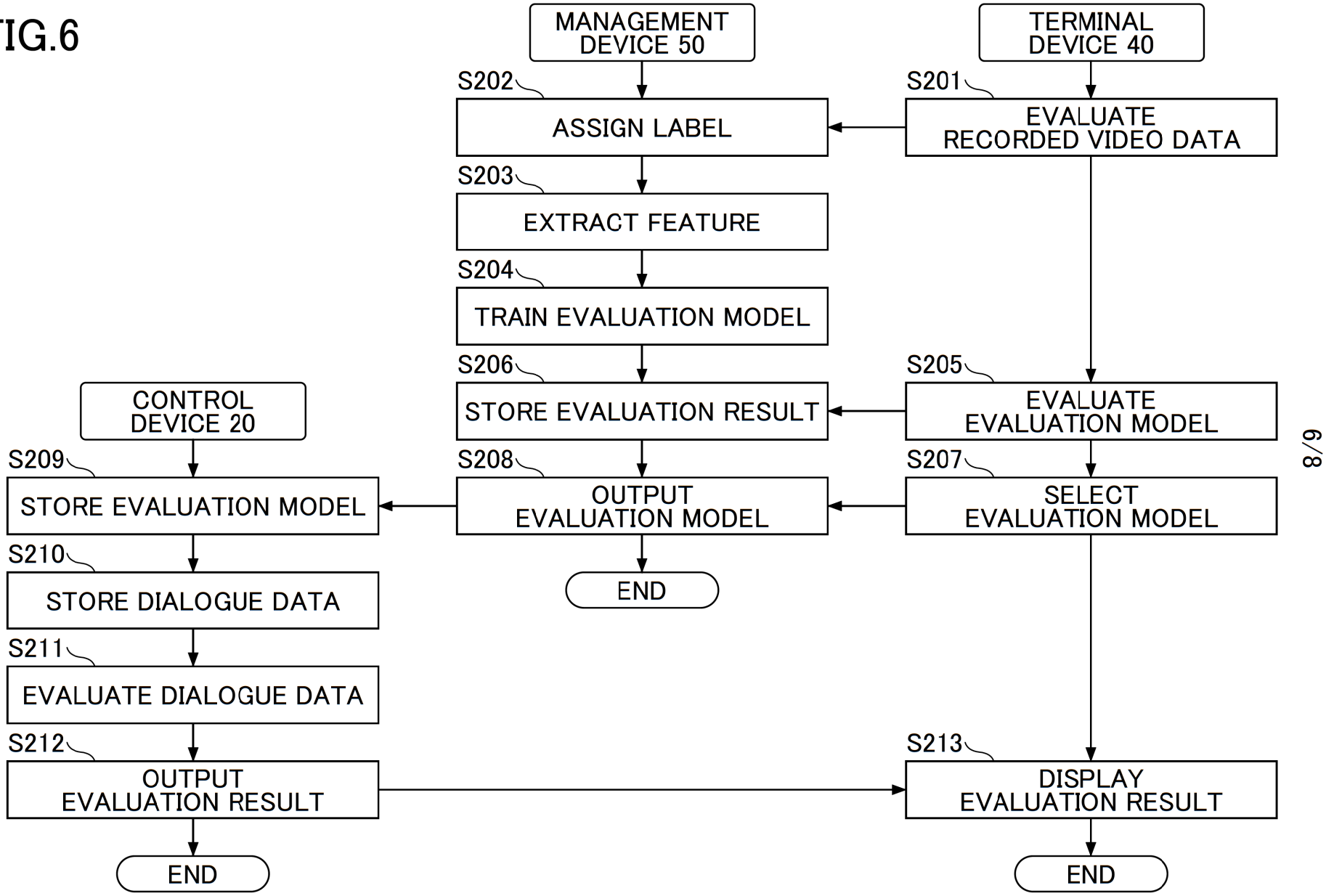

MANAGEMENT DEVICE 50
TERMINAL DEVICE 40
S202
ASSIGN LABEL
S201
EVALUATE RECORDED VIDEO DATA
S203
EXTRACT FEATURE
S204
TRAIN EVALUATION MODEL
S206
STORE EVALUATION RESULT
S205
EVALUATE EVALUATION MODEL
CONTROL DEVICE 20
S209
STORE EVALUATION MODEL
S208
OUTPUT EVALUATION MODEL
S207
SELECT EVALUATION MODEL
S210
STORE DIALOGUE DATA
END
S211
EVALUATE DIALOGUE DATA
S212
OUTPUT EVALUATION RESULT
S213
DISPLAY EVALUATION RESULT
END
END

FIG.7

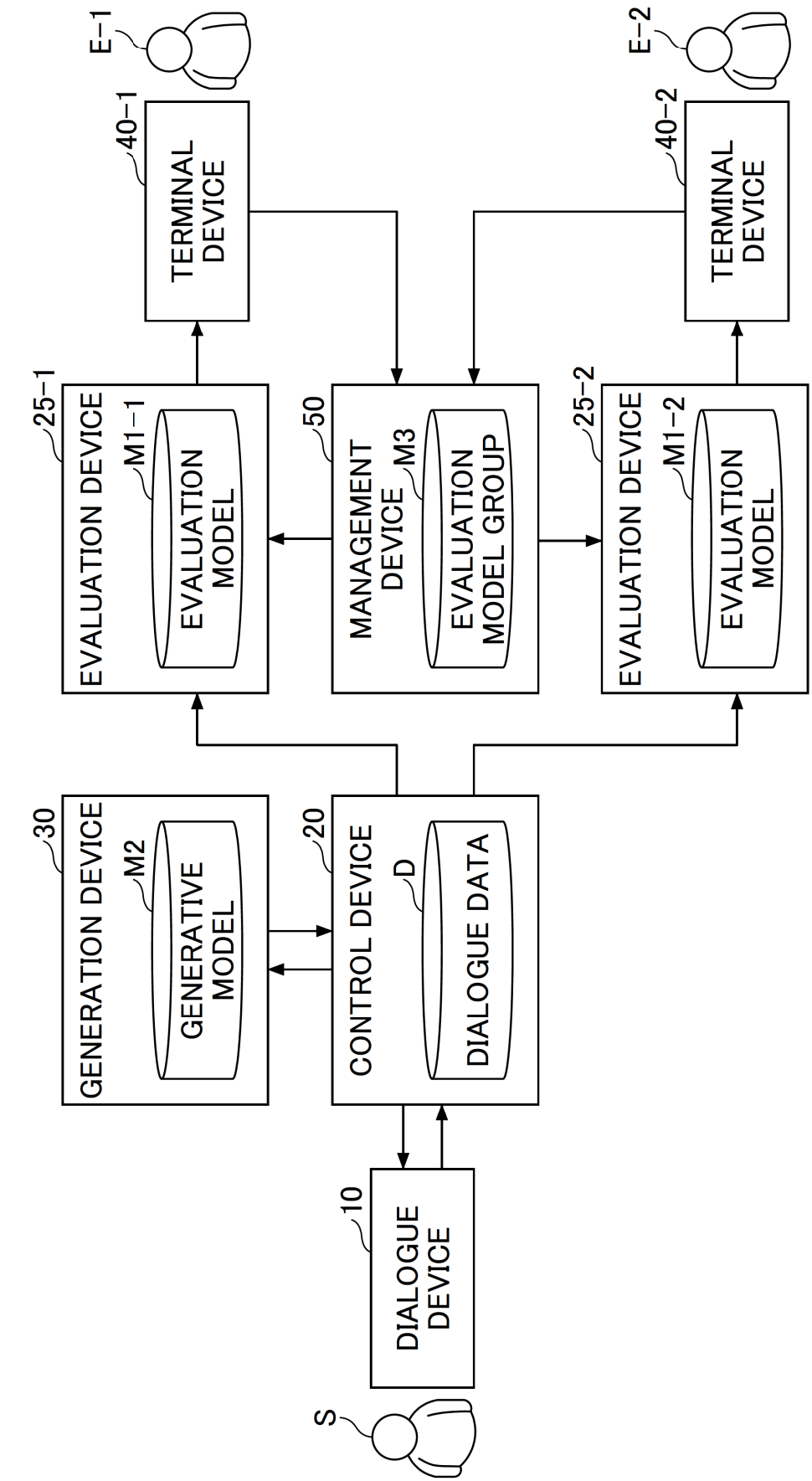
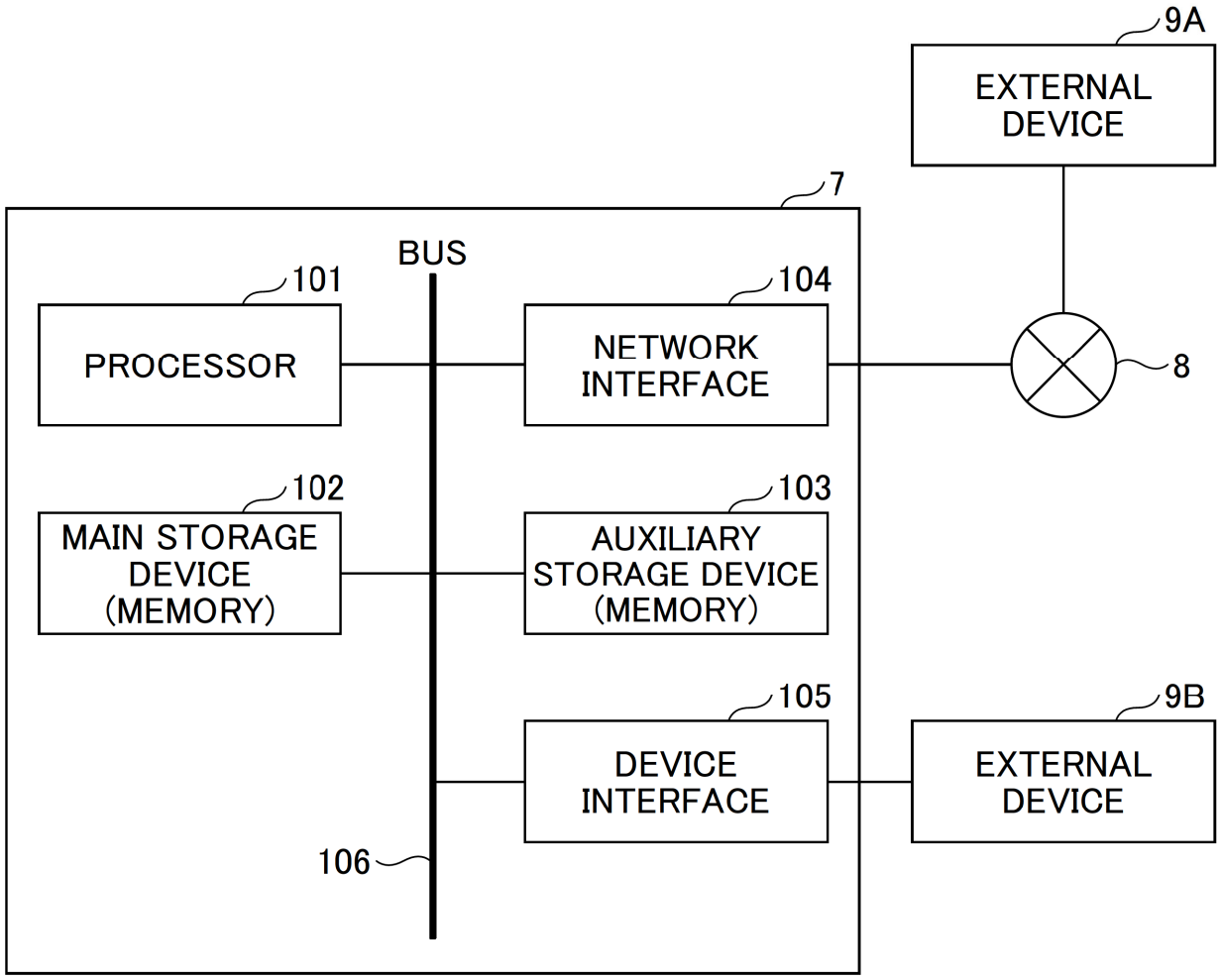

E-1
E-2
40-1
TERMINAL DEVICE
40-2
TERMINAL DEVICE
25-1
EVALUATION DEVICE
M1-1
EVALUATION MODEL
50
MANAGEMENT DEVICE
M3
EVALUATION MODEL GROUP
25-2
EVALUATION DEVICE
M1-2
EVALUATION MODEL
30
GENERATION DEVICE
M2
GENERATIVE MODEL
20
CONTROL DEVICE
D
DIALOGUE DATA
10
DIALOGUE DEVICE
S

FIG.8


9A
EXTERNAL DEVICE
7
BUS
101
PROCESSOR
104
NETWORK INTERFACE
8
102
MAIN STORAGE DEVICE (MEMORY)
103
AUXILIARY STORAGE DEVICE (MEMORY)
105
DEVICE INTERFACE
9B
EXTERNAL DEVICE
106