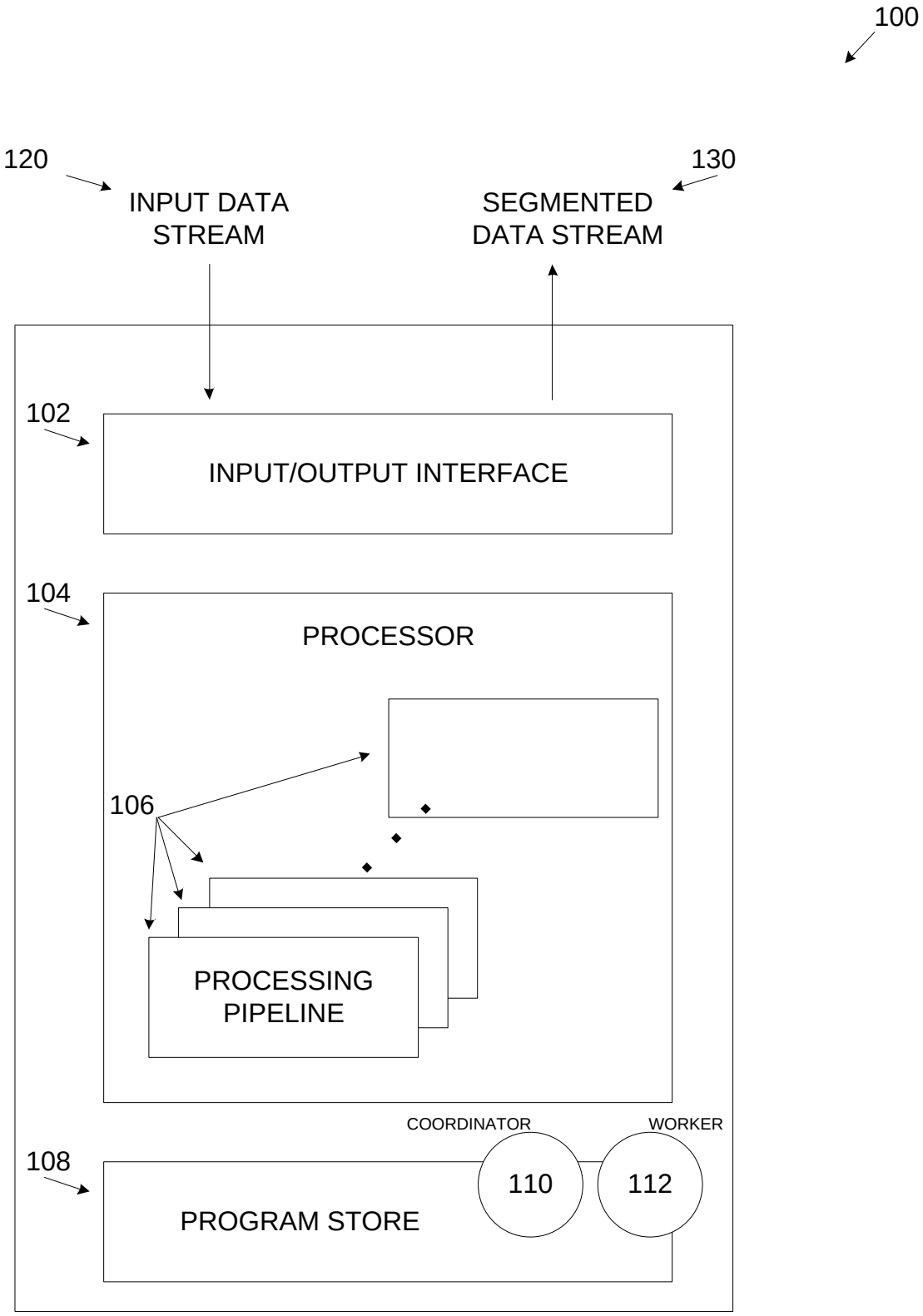

100
120
INPUT DATA STREAM
130
SEGMENTED DATA STREAM
102
INPUT/OUTPUT INTERFACE
104
PROCESSOR
106
PROCESSING PIPELINE
COORDINATOR
WORKER
108
110
112
PROGRAM STORE

FIG. 1

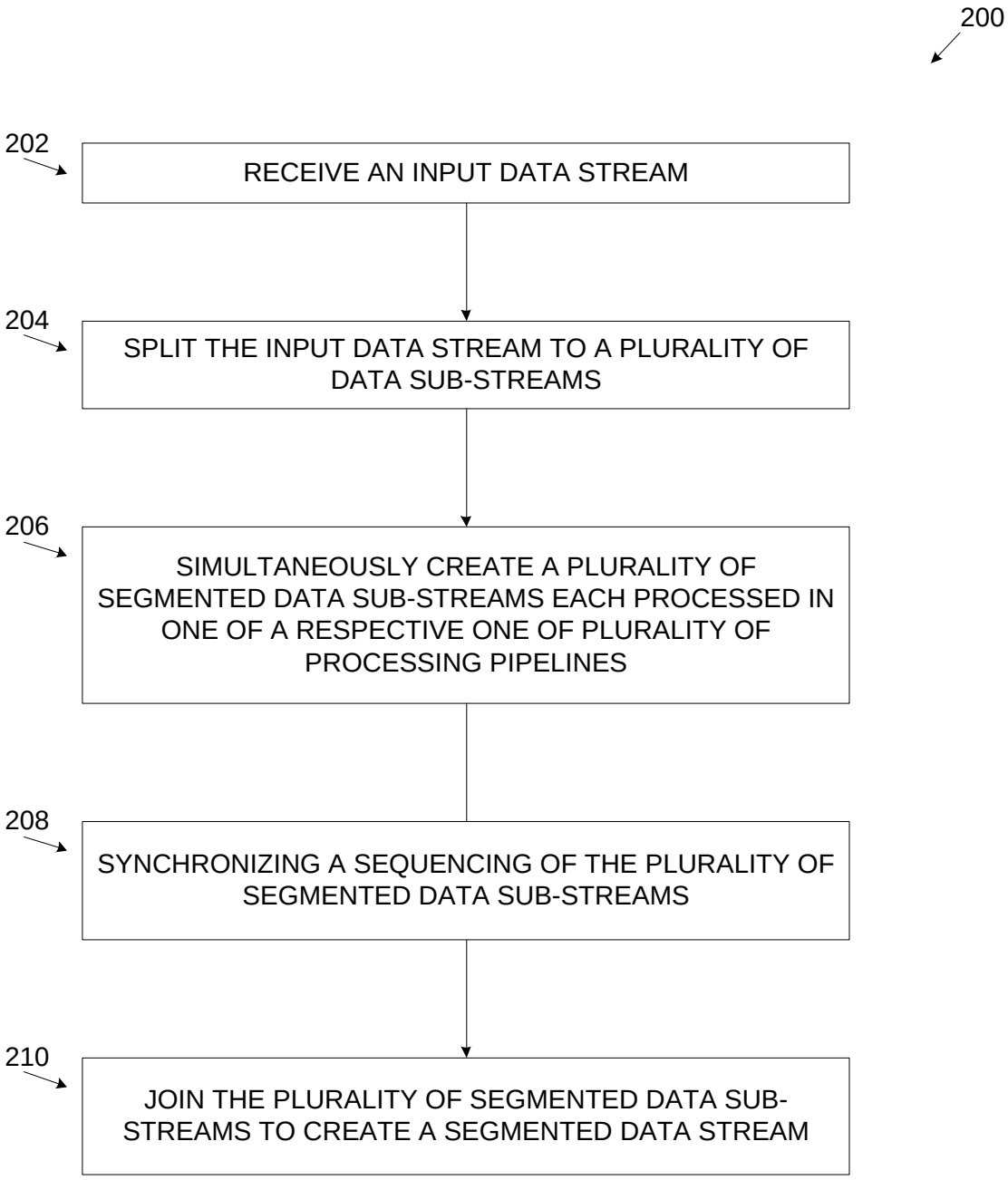

200
202
RECEIVE AN INPUT DATA STREAM
204
SPLIT THE INPUT DATA STREAM TO A PLURALITY OF DATA SUB-STREAMS
206
SIMULTANEOUSLY CREATE A PLURALITY OF SEGMENTED DATA SUB-STREAMS EACH PROCESSED IN ONE OF A RESPECTIVE ONE OF PLURALITY OF PROCESSING PIPELINES
208
SYNCHRONIZING A SEQUENCING OF THE PLURALITY OF SEGMENTED DATA SUB-STREAMS
210
JOIN THE PLURALITY OF SEGMENTED DATA SUB-STREAMS TO CREATE A SEGMENTED DATA STREAM

FIG. 2

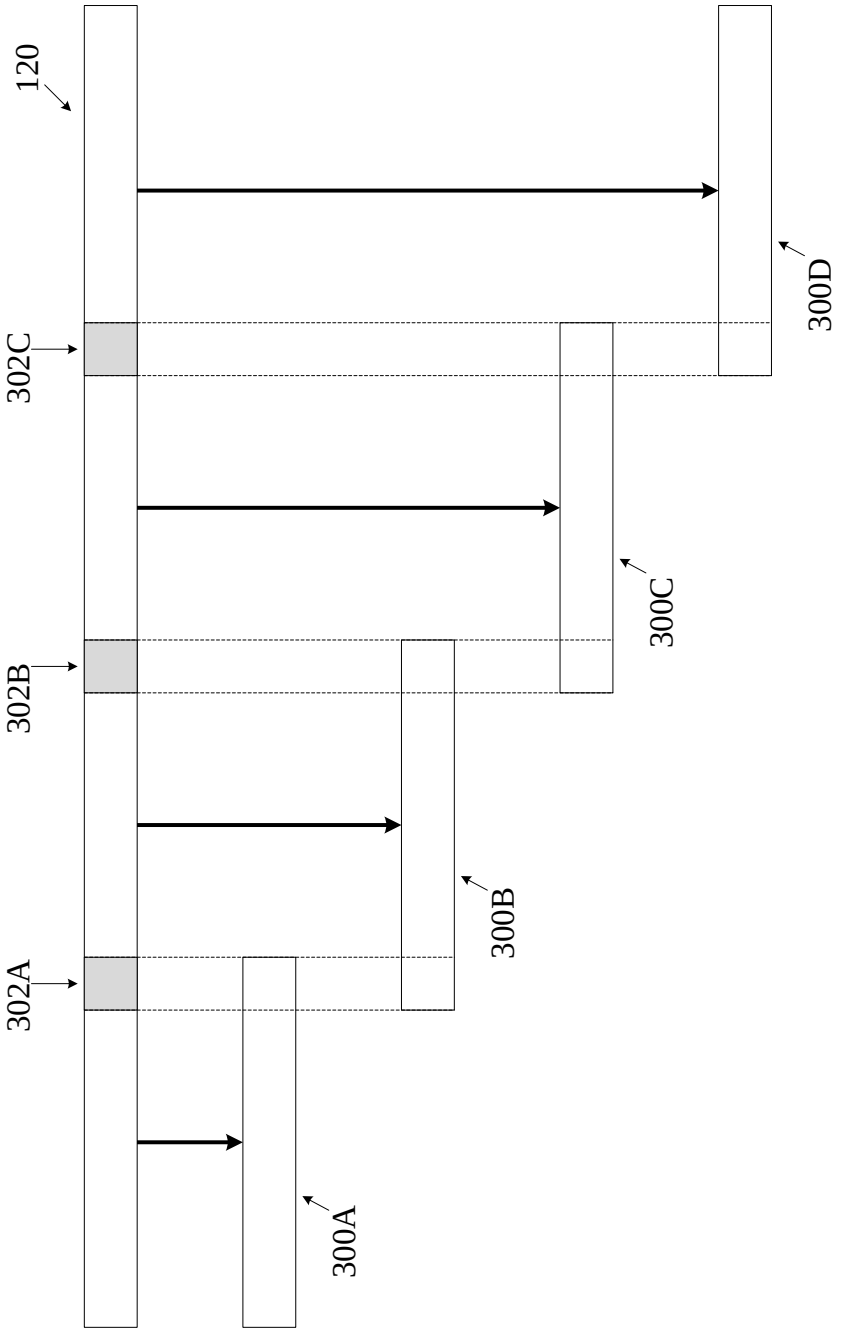


FIG. 3

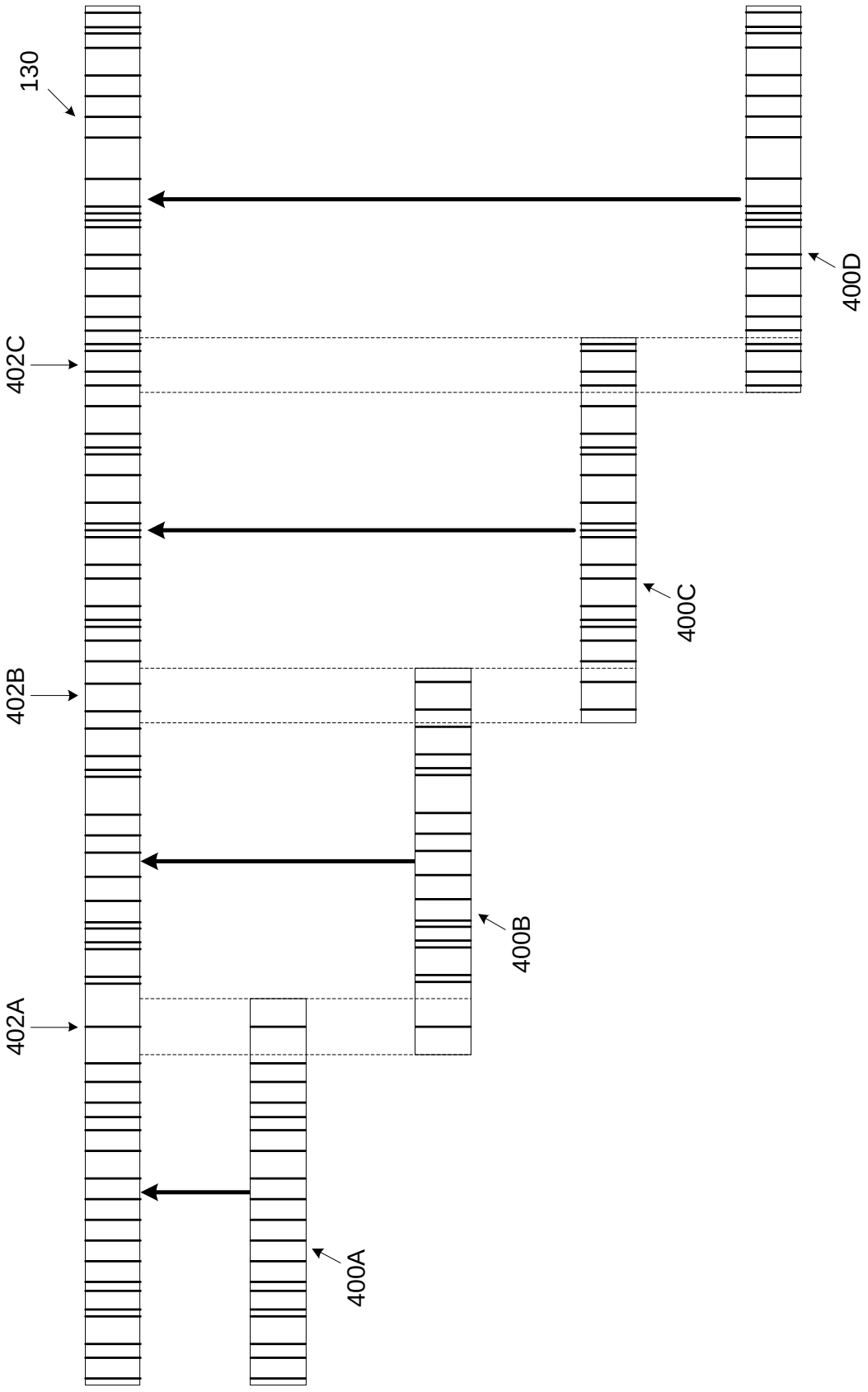


FIG. 4

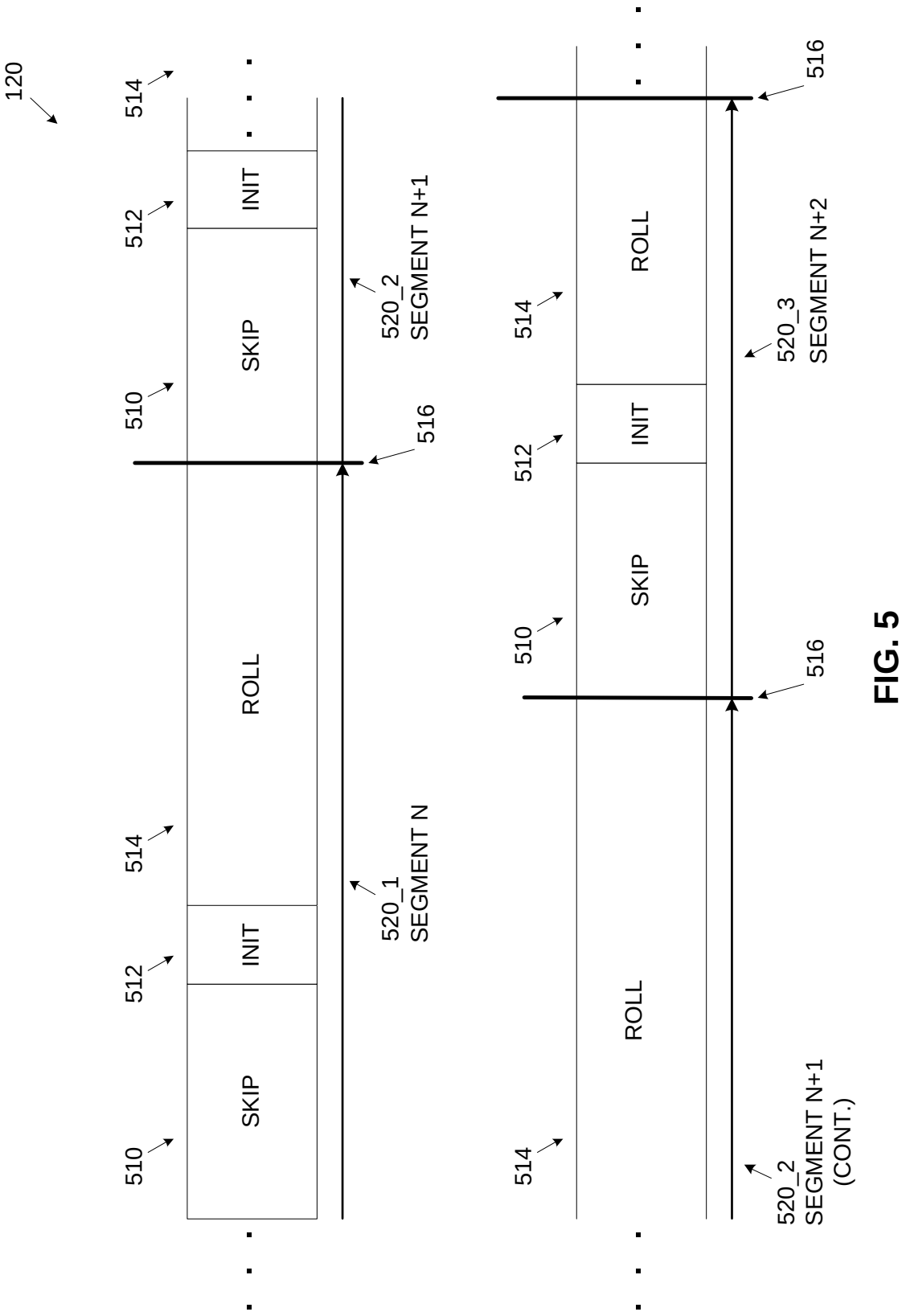

120
514
512
510
SKIP
INIT
ROLL
520_1
SEGMENT N
516
520_2
SEGMENT N+1
520_3
SEGMENT N+2
520_2
SEGMENT N+1
(CONT.)

FIG. 5

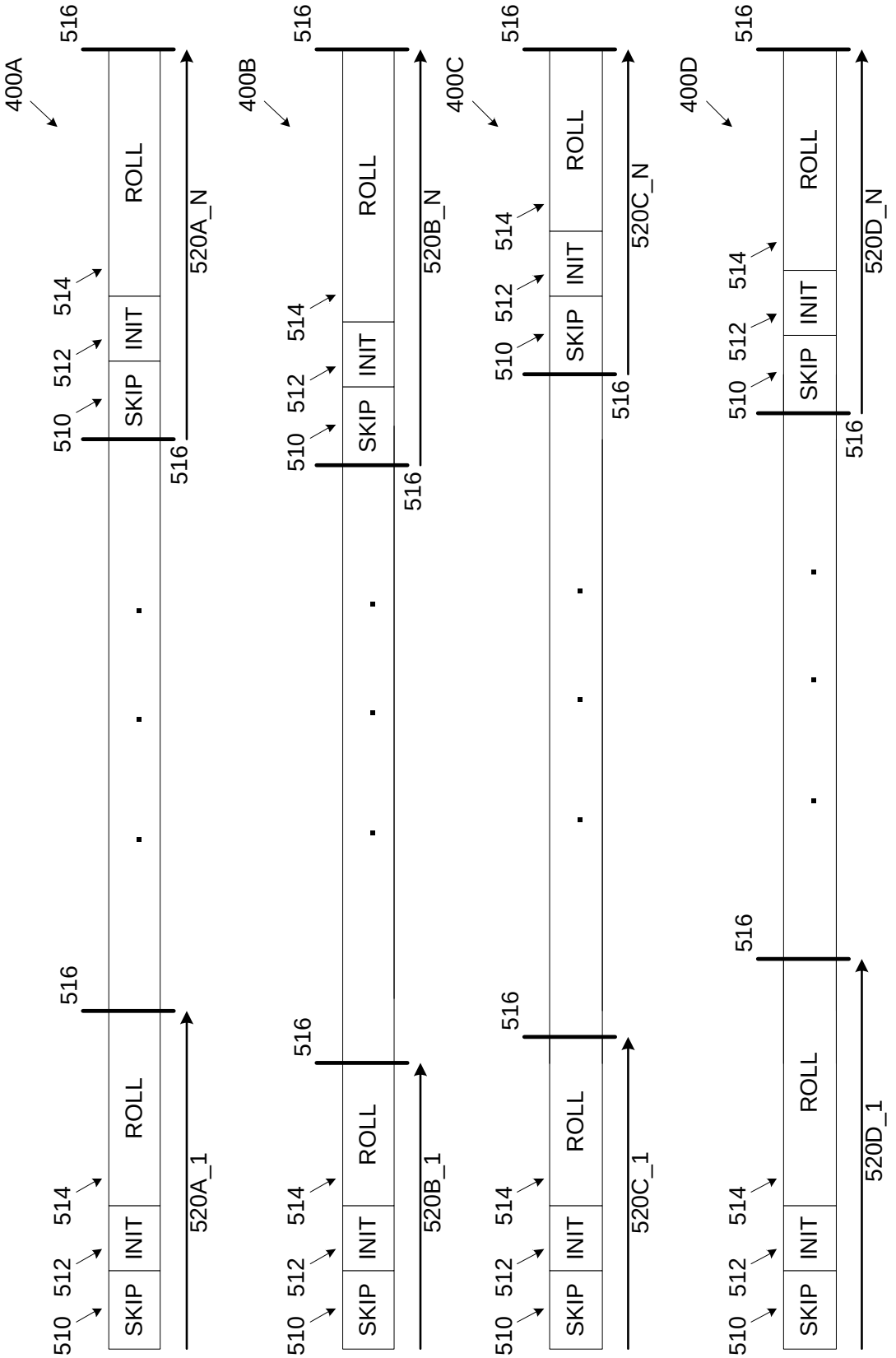
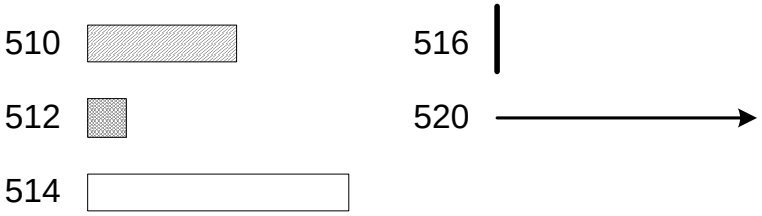

400A
400B
400C
400D
510
512
514
516
SKIP
INIT
ROLL
520A_1
520A_N
520B_1
520B_N
520C_1
520C_N
520D_1
520D_N

FIG. 6



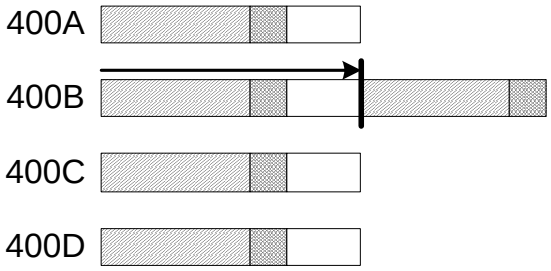


FIG. 7A

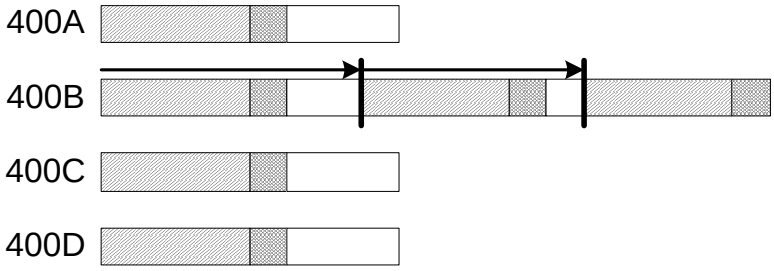


FIG. 7B

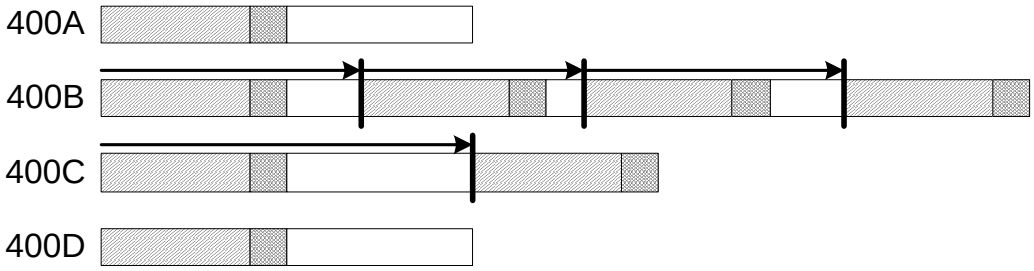


FIG. 7C

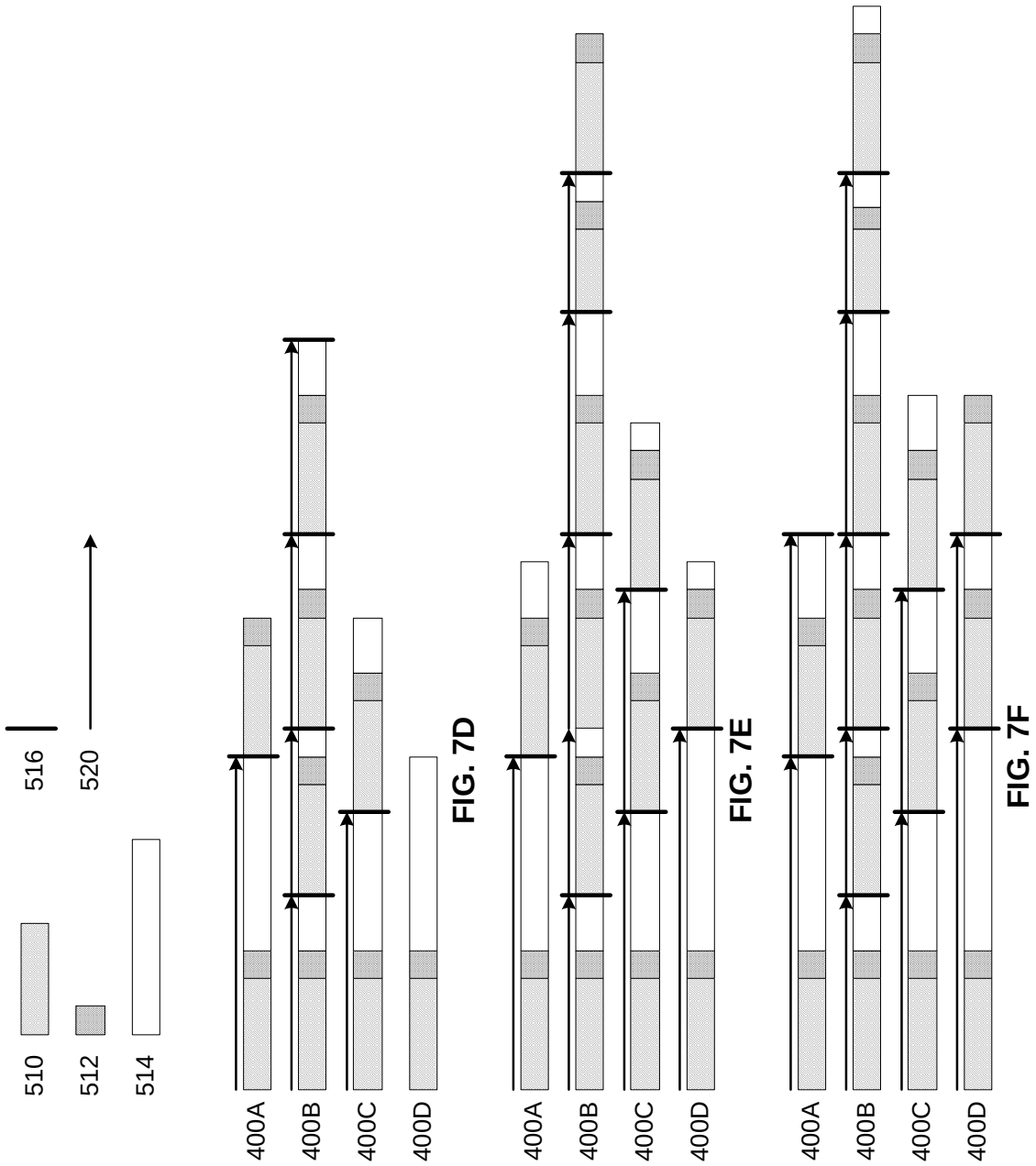


FIG. 7D

FIG. 7E

FIG. 7F

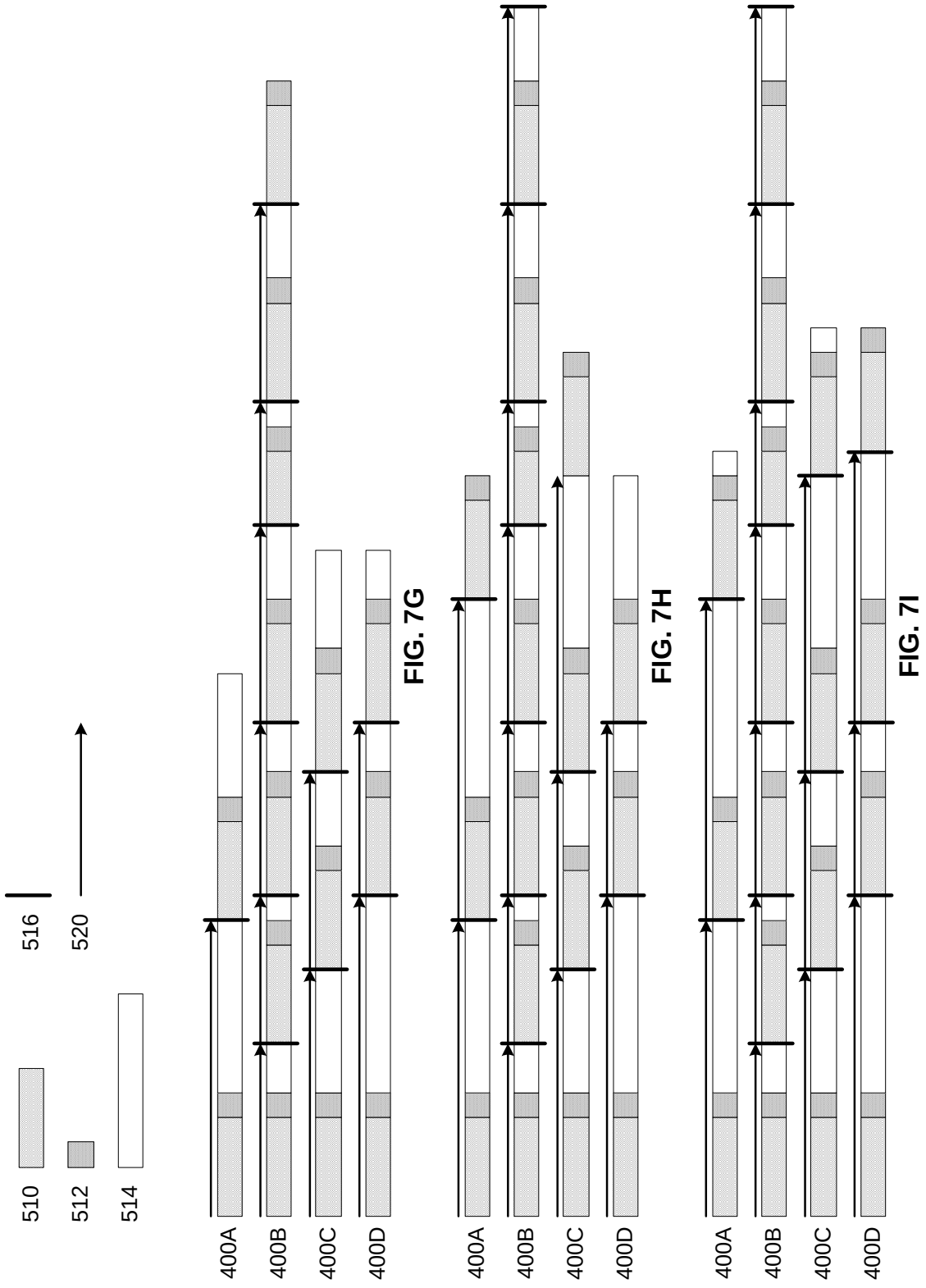


FIG. 7G

FIG. 7H

FIG. 7I

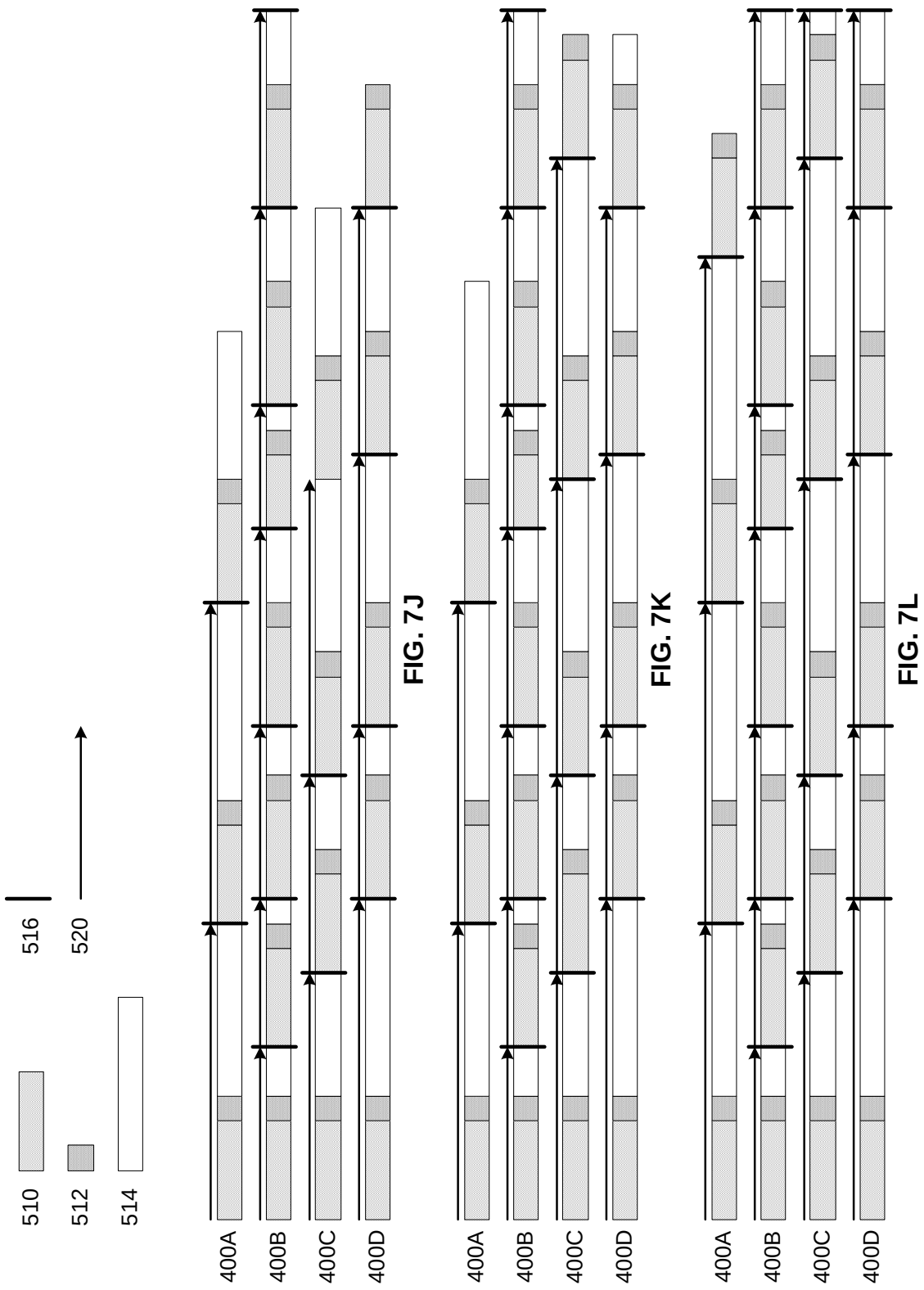


FIG. 7J

FIG. 7K

FIG. 7L

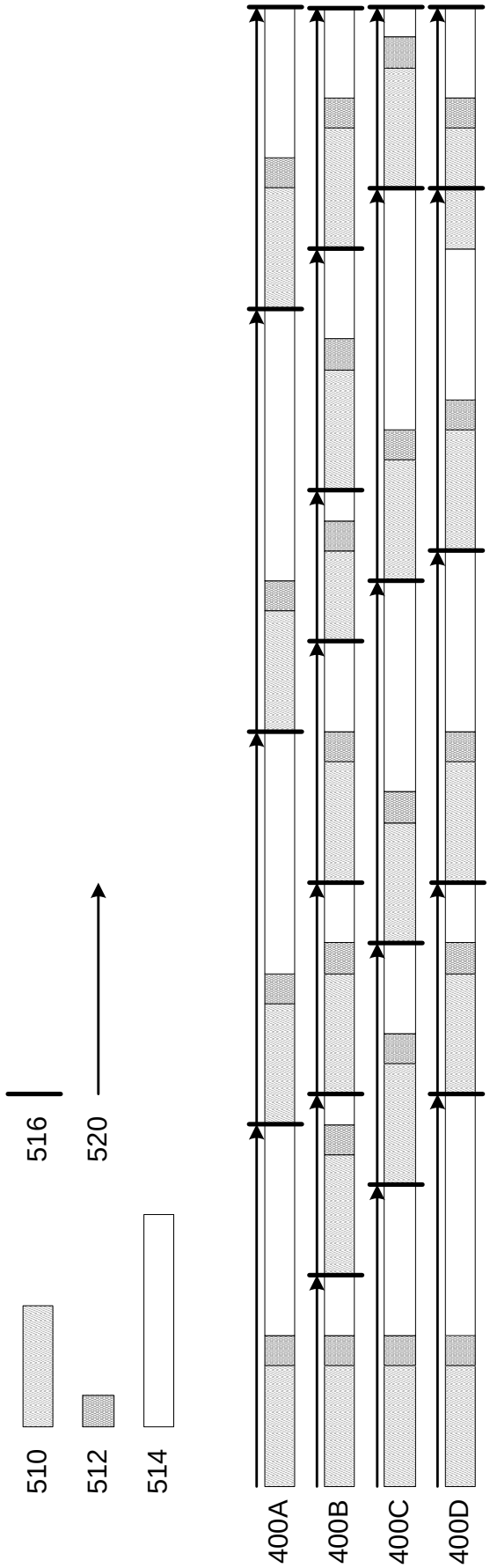


FIG. 7M