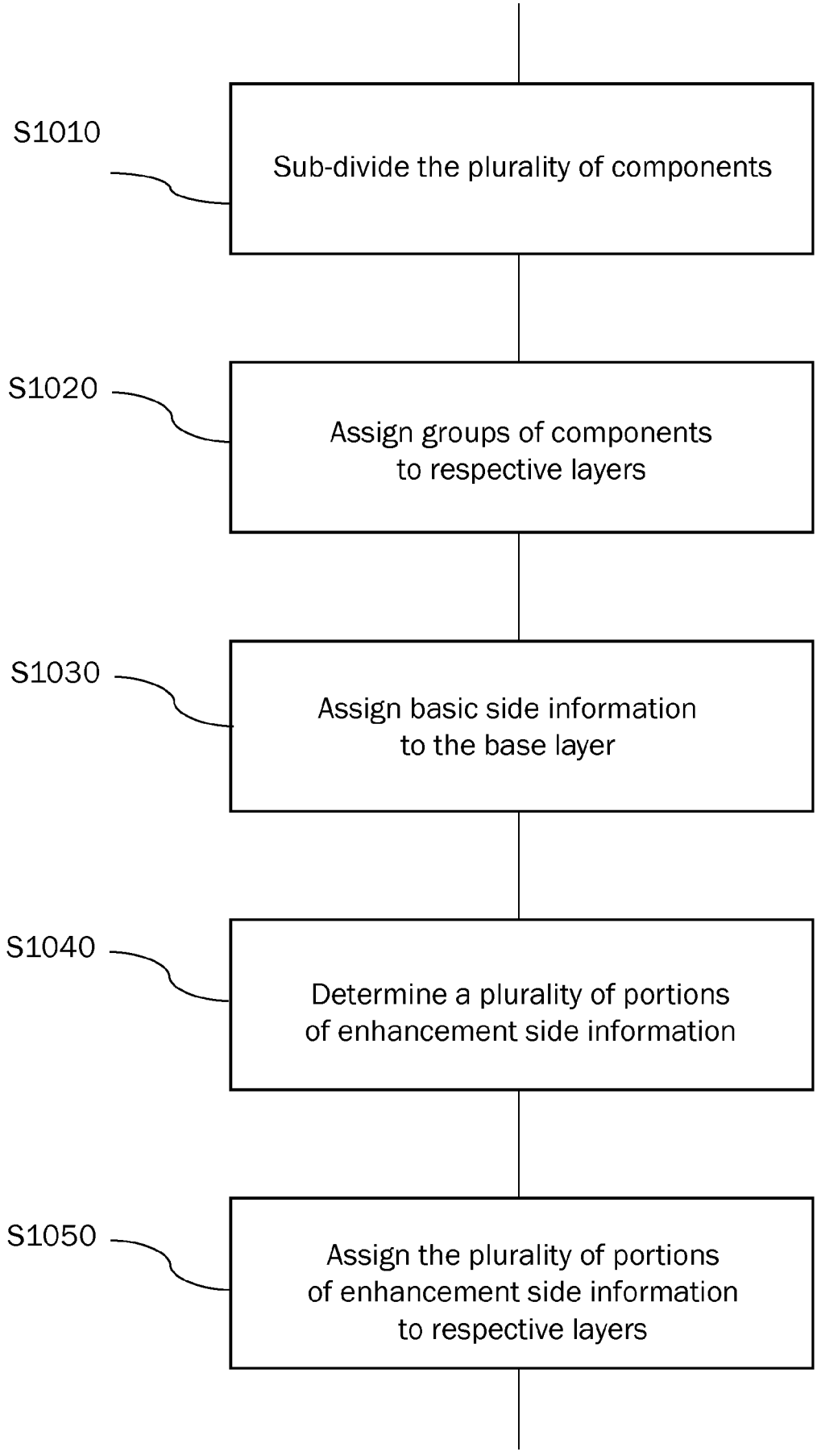
S1010
Sub-divide the plurality of components
S1020
Assign groups of components to respective layers
S1030
Assign basic side information to the base layer
S1040
Determine a plurality of portions of enhancement side information
S1050
Assign the plurality of portions of enhancement side information to respective layers

Fig. 1

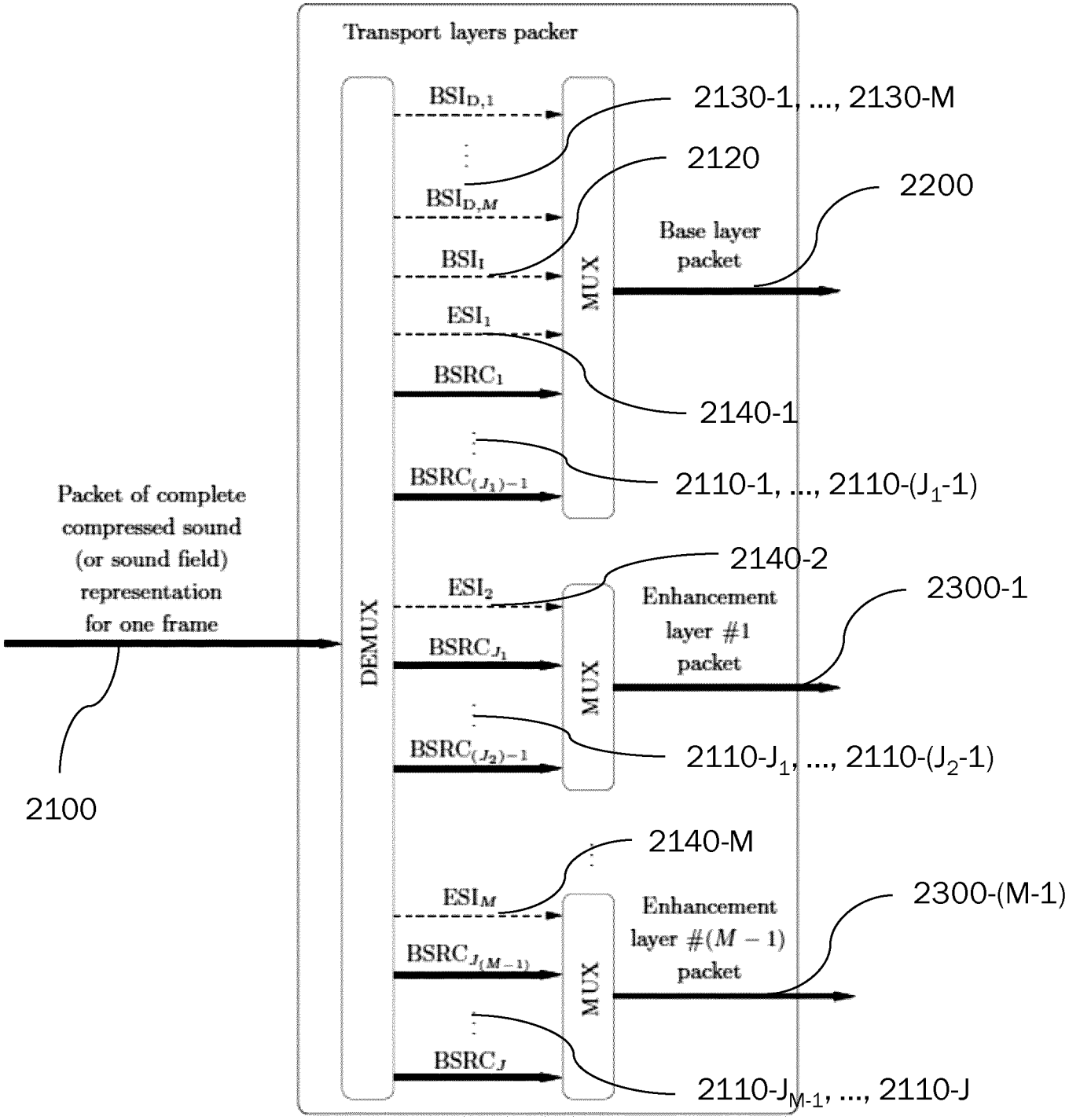
Transport layers packer
DEMUX
MUX
MUX
MUX
BSI_D,1
BSI_D,M
BSI_I
ESI_1
BSRC_1
BSRC_(J_1)-1
ESI_2
BSRC_J_1
BSRC_(J_2)-1
ESI_M
BSRC_J_(M-1)
BSRC_J
Base layer packet
Enhancement layer #1 packet
Enhancement layer #(M − 1) packet
Packet of complete compressed sound (or sound field) representation for one frame
2100
2130-1, ..., 2130-M
2120
2200
2140-1
2110-1, ..., 2110-(J1-1)
2140-2
2300-1
2110-J1, ..., 2110-(J2-1)
2140-M
2300-(M-1)
2110-JM-1, ..., 2110-J

Fig. 2

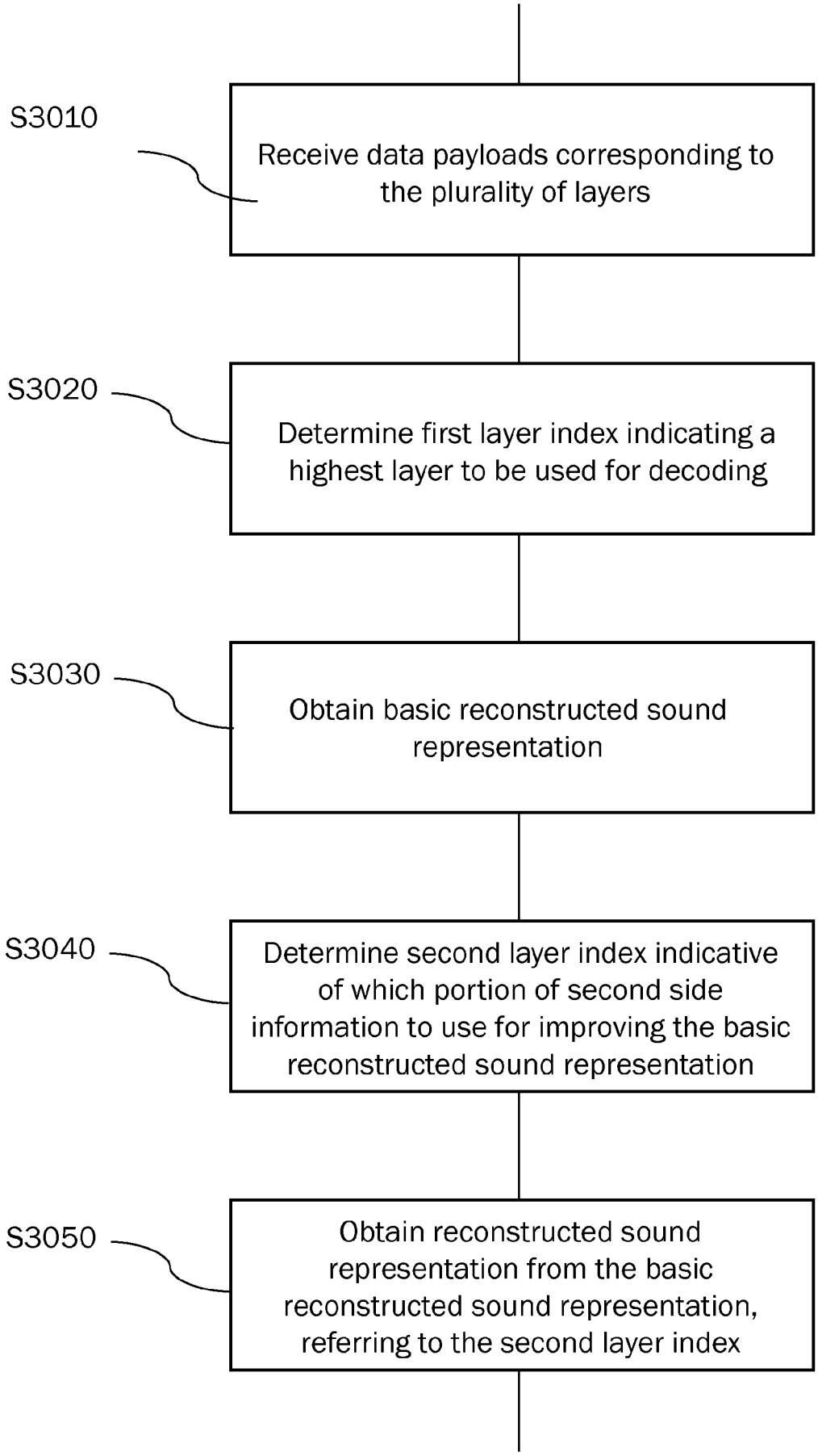
S3010
Receive data payloads corresponding to the plurality of layers
S3020
Determine first layer index indicating a highest layer to be used for decoding
S3030
Obtain basic reconstructed sound representation
S3040
Determine second layer index indicative of which portion of second side information to use for improving the basic reconstructed sound representation
S3050
Obtain reconstructed sound representation from the basic reconstructed sound representation, referring to the second layer index

Fig. 3

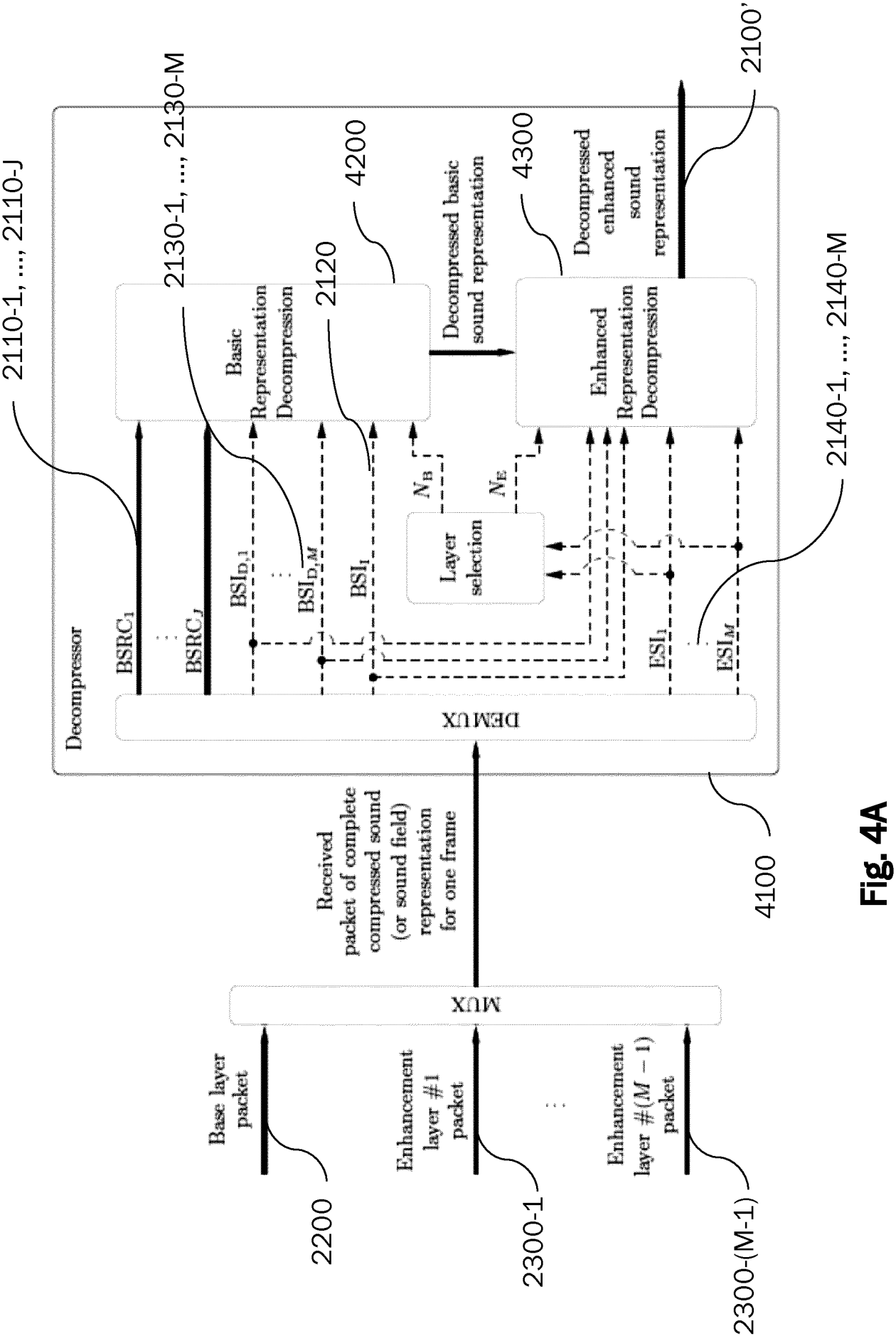
Base layer packet
Enhancement layer #1 packet
Enhancement layer #(M − 1) packet
MUX
Received packet of complete compressed sound (or sound field) representation for one frame
DEMUX
Decompressor
BSRC1
BSRCJ
BSID,1
BSID,M
BSI1
Basic Representation Decompression
Layer selection
NB
NE
ESI1
ESIM
Decompressed basic sound representation
Enhanced Representation Decompression
Decompressed enhanced sound representation
2200
2300-1
2300-(M-1)
2110-1, ..., 2110-J
2130-1, ..., 2130-M
2120
4200
4300
2140-1, ..., 2140-M
2100'
4100

Fig. 4A

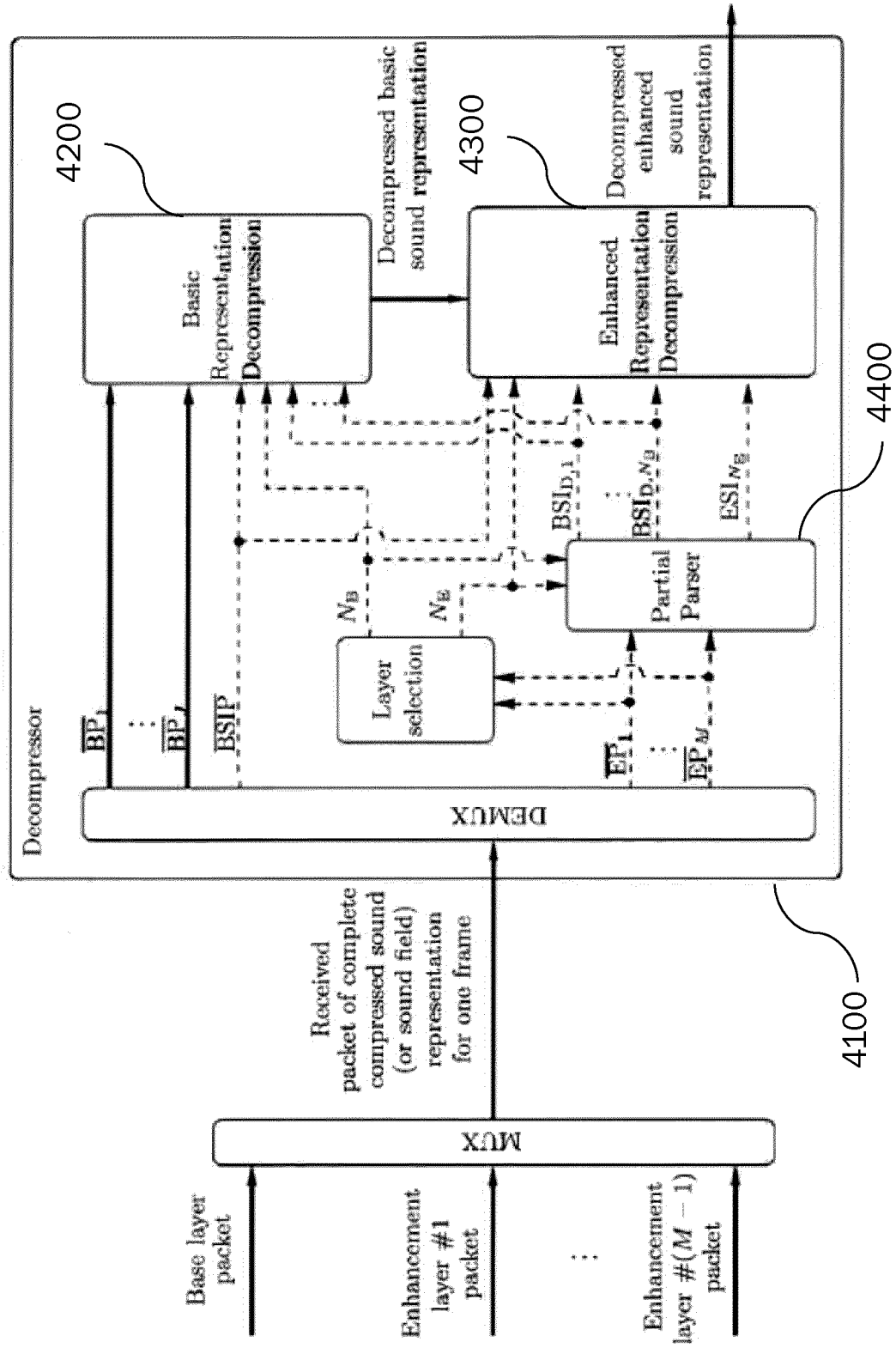
Decompressor
4200
Basic Representation Decompression
Decompressed basic sound representation
4300
Enhanced Representation Decompression
Decompressed enhanced sound representation
DEMUX
Layer selection
Partial Parser
4400
4100
Received packet of complete compressed sound (or sound field) representation for one frame
MUX
Base layer packet
Enhancement layer #1 packet
Enhancement layer #(M − 1) packet

Fig. 4B

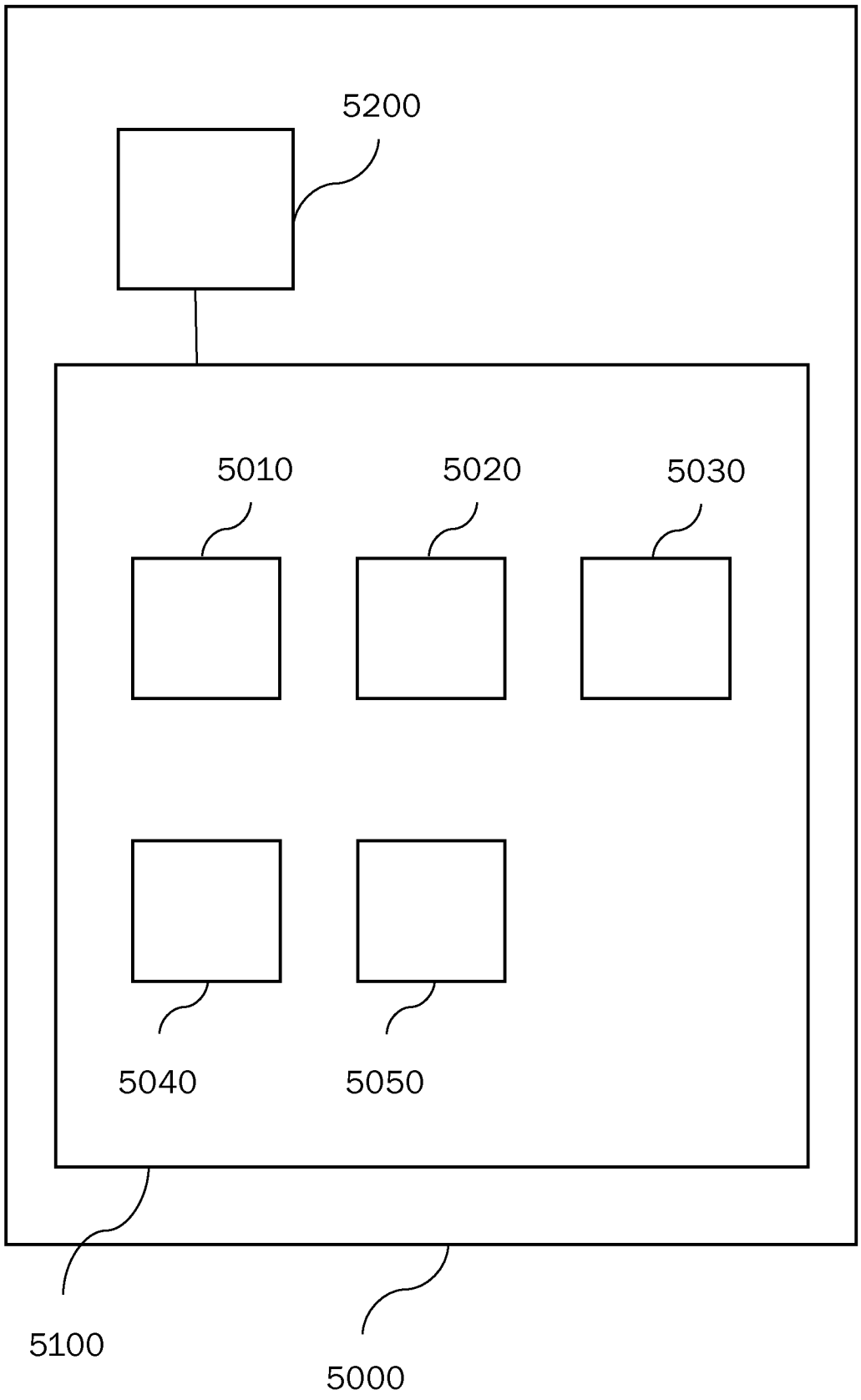

Fig. 5

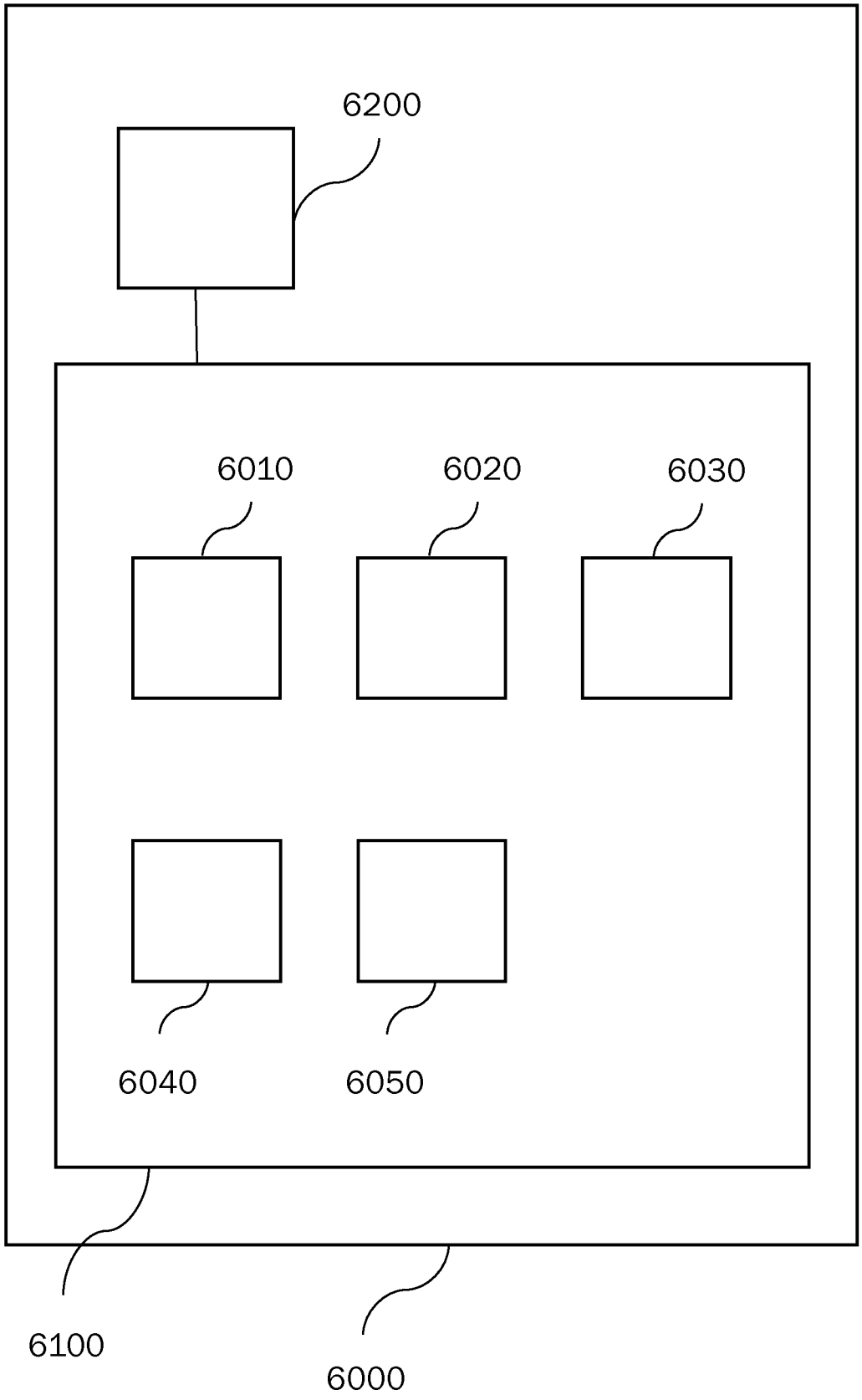

Fig. 6