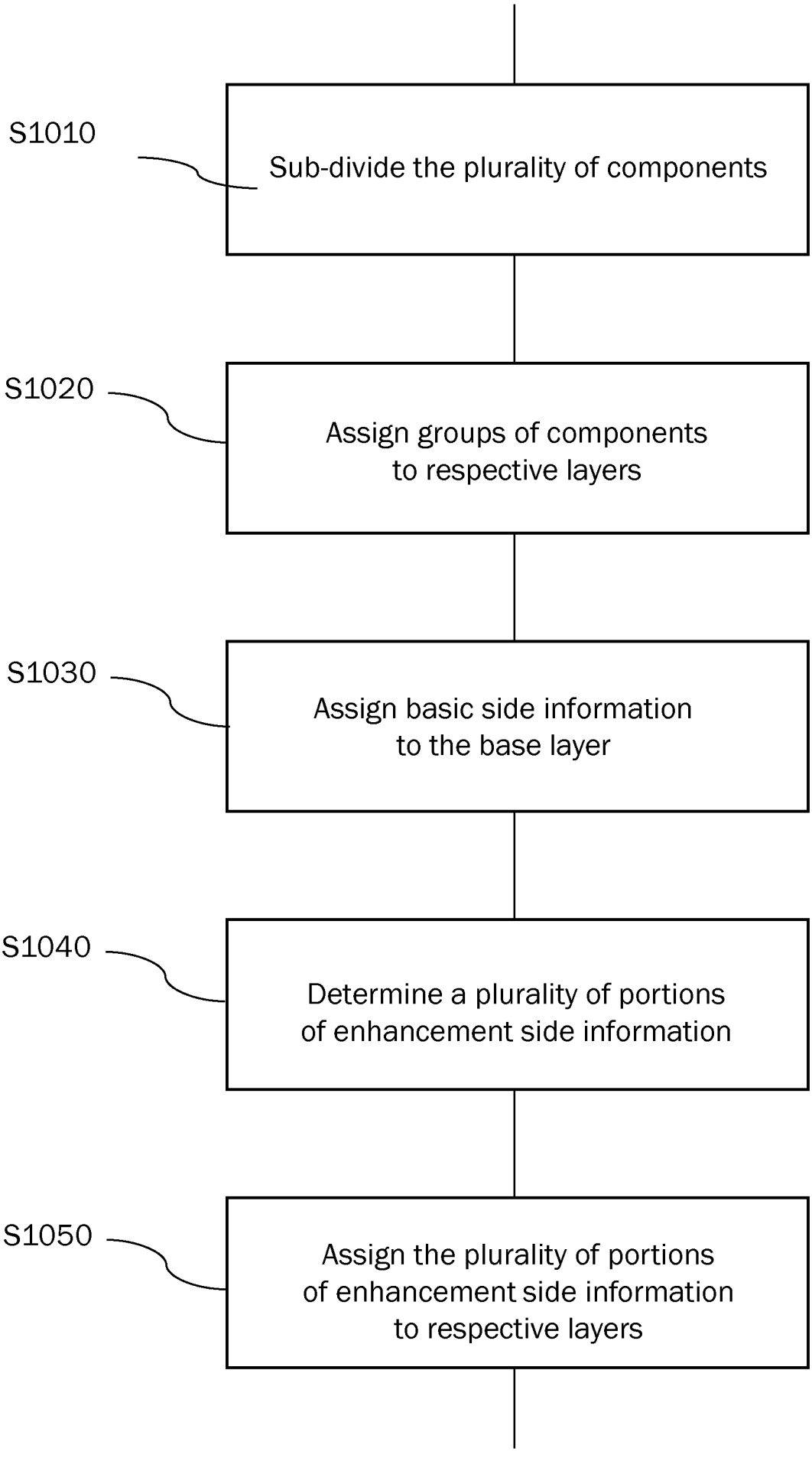
S1010
Sub-divide the plurality of components
S1020
Assign groups of components to respective layers
S1030
Assign basic side information to the base layer
S1040
Determine a plurality of portions of enhancement side information
S1050
Assign the plurality of portions of enhancement side information to respective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

Fig. 1

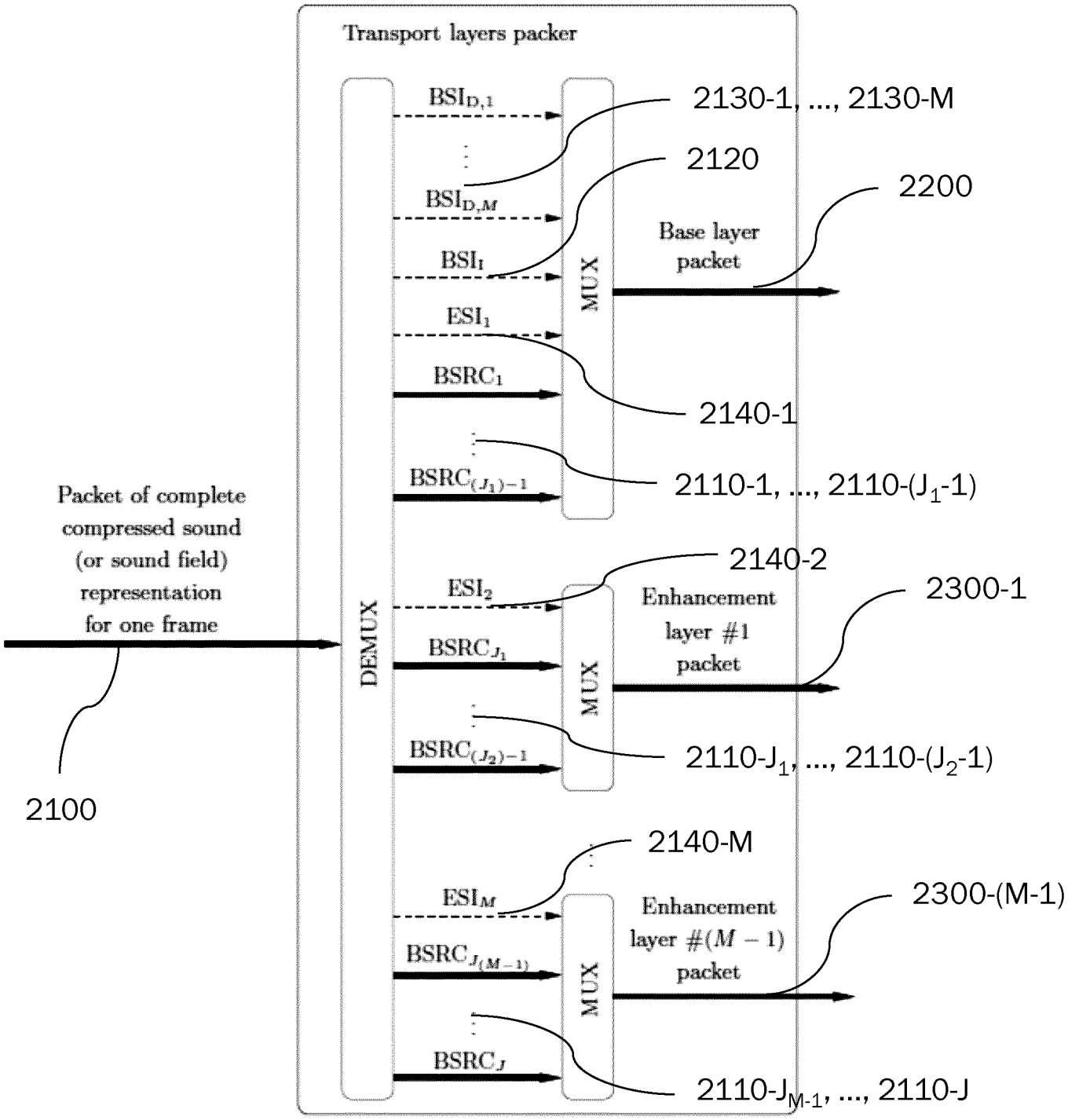
Transport layers packer
DEMUX
MUX
MUX
MUX
BSI$_{D,1}$
BSI$_{D,M}$
BSI$_I$
ESI$_1$
BSRC$_1$
BSRC$_{(J_1)-1}$
ESI$_2$
BSRC$_{J_1}$
BSRC$_{(J_2)-1}$
ESI$_M$
BSRC$_{J_{(M-1)}}$
BSRC$_J$
Base layer packet
Enhancement layer #1 packet
Enhancement layer #(M − 1) packet
Packet of complete compressed sound (or sound field) representation for one frame
2100
2130-1, ..., 2130-M
2120
2200
2140-1
2110-1, ..., 2110-(J$_1$-1)
2140-2
2300-1
2110-J$_1$, ..., 2110-(J$_2$-1)
2140-M
2300-(M-1)
2110-J$_{M-1}$, ..., 2110-J

Fig. 2

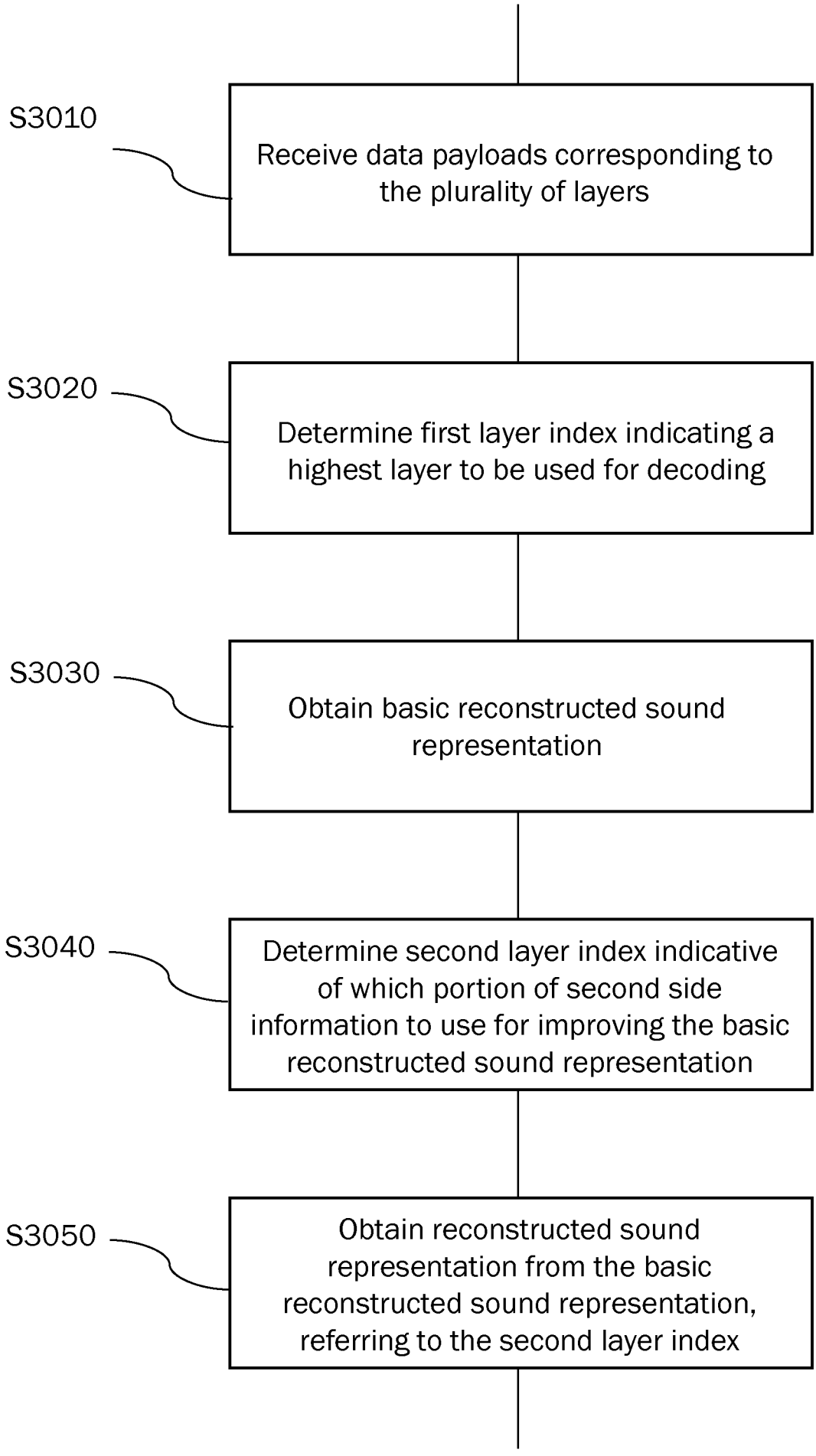
S3010
Receive data payloads corresponding to the plurality of layers
S3020
Determine first layer index indicating a highest layer to be used for decoding
S3030
Obtain basic reconstructed sound representation
S3040
Determine second layer index indicative of which portion of second side information to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

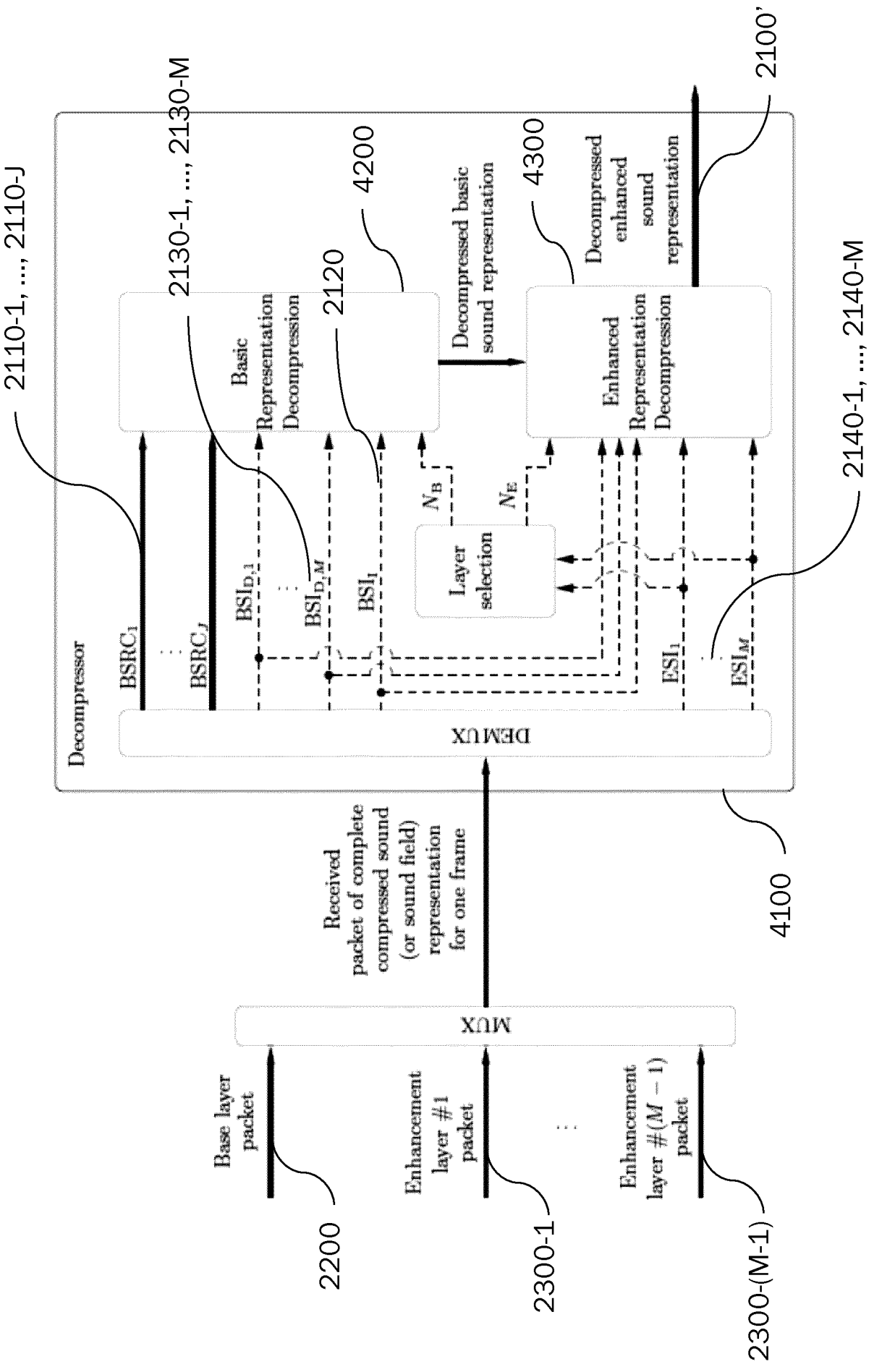
Base layer packet
Enhancement layer #1 packet
Enhancement layer #(M − 1) packet
MUX
Received packet of complete compressed sound (or sound field) representation for one frame
DEMUX
Decompressor
BSRC1
BSRCJ
BSID,1
BSID,M
BSI1
Basic Representation Decompression
Layer selection
NB
NE
Decompressed basic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

Fig. 4A

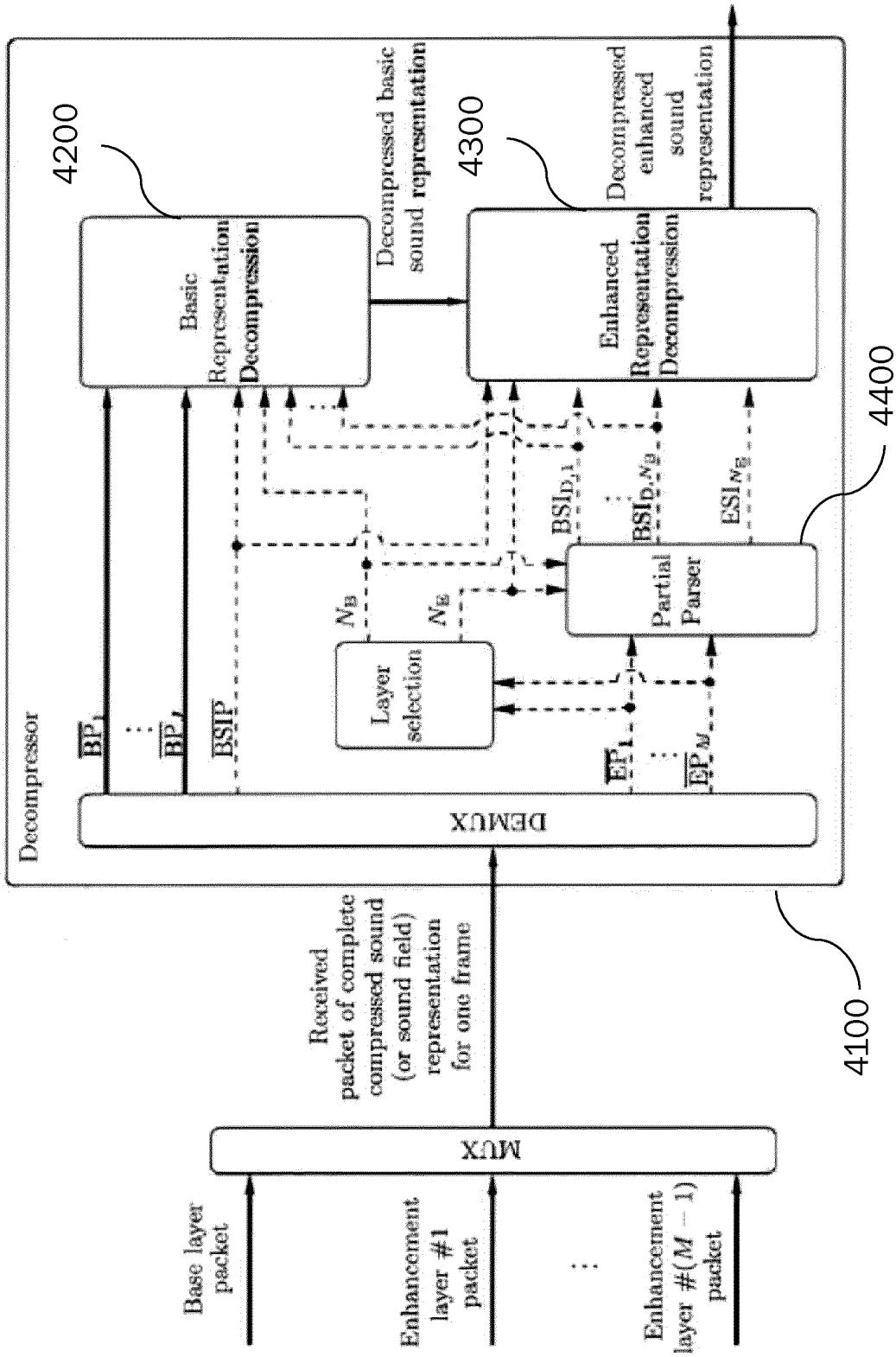
Base layer packet
Enhancement layer #1 packet
Enhancement layer #(M − 1) packet
MUX
Received packet of complete compressed sound (or sound field) representation for one frame
Decompressor
DEMUX
Basic Representation Decompression
4200
Decompressed basic sound representation
Enhanced Representation Decompression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

Fig. 4B

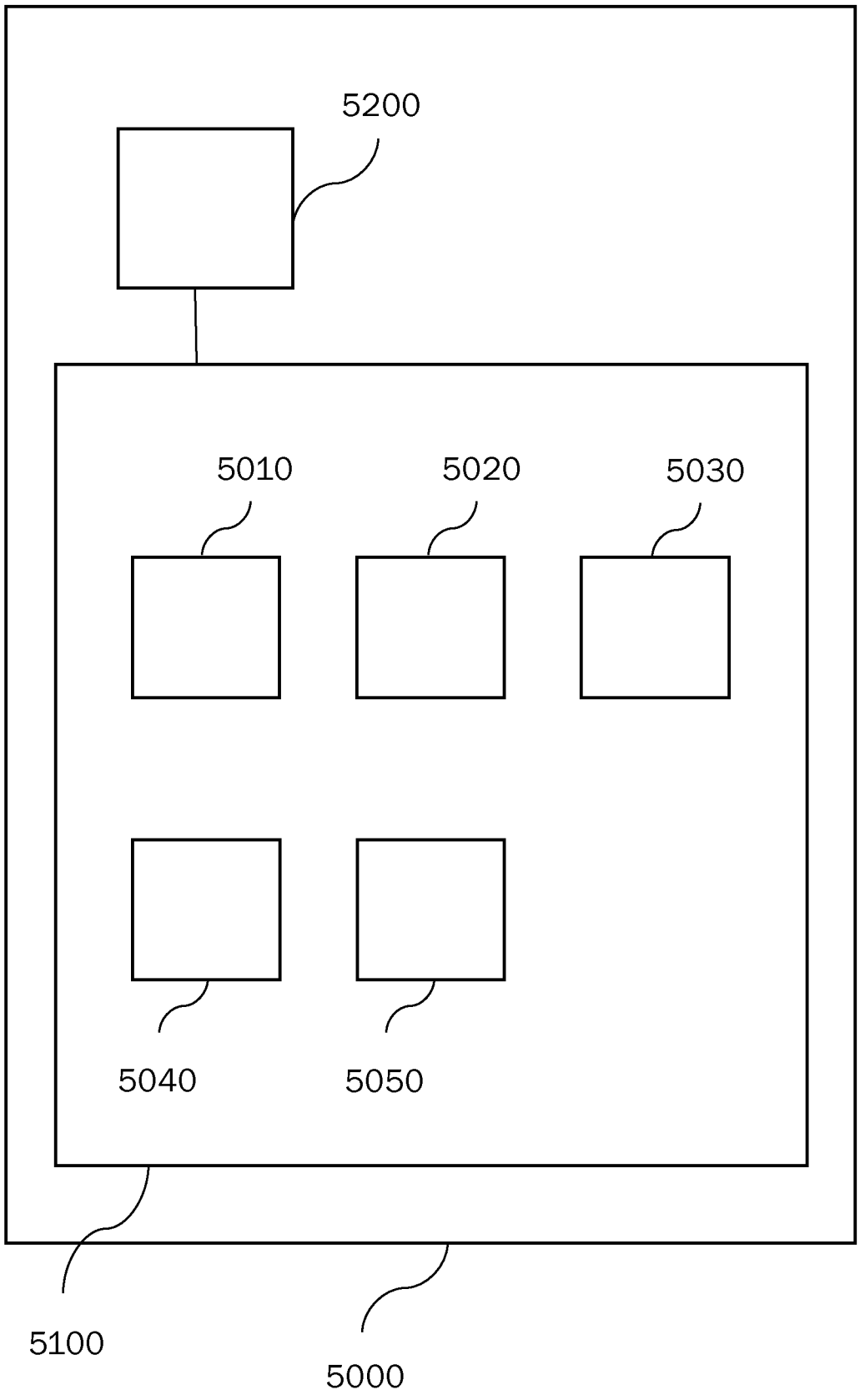

Fig. 5

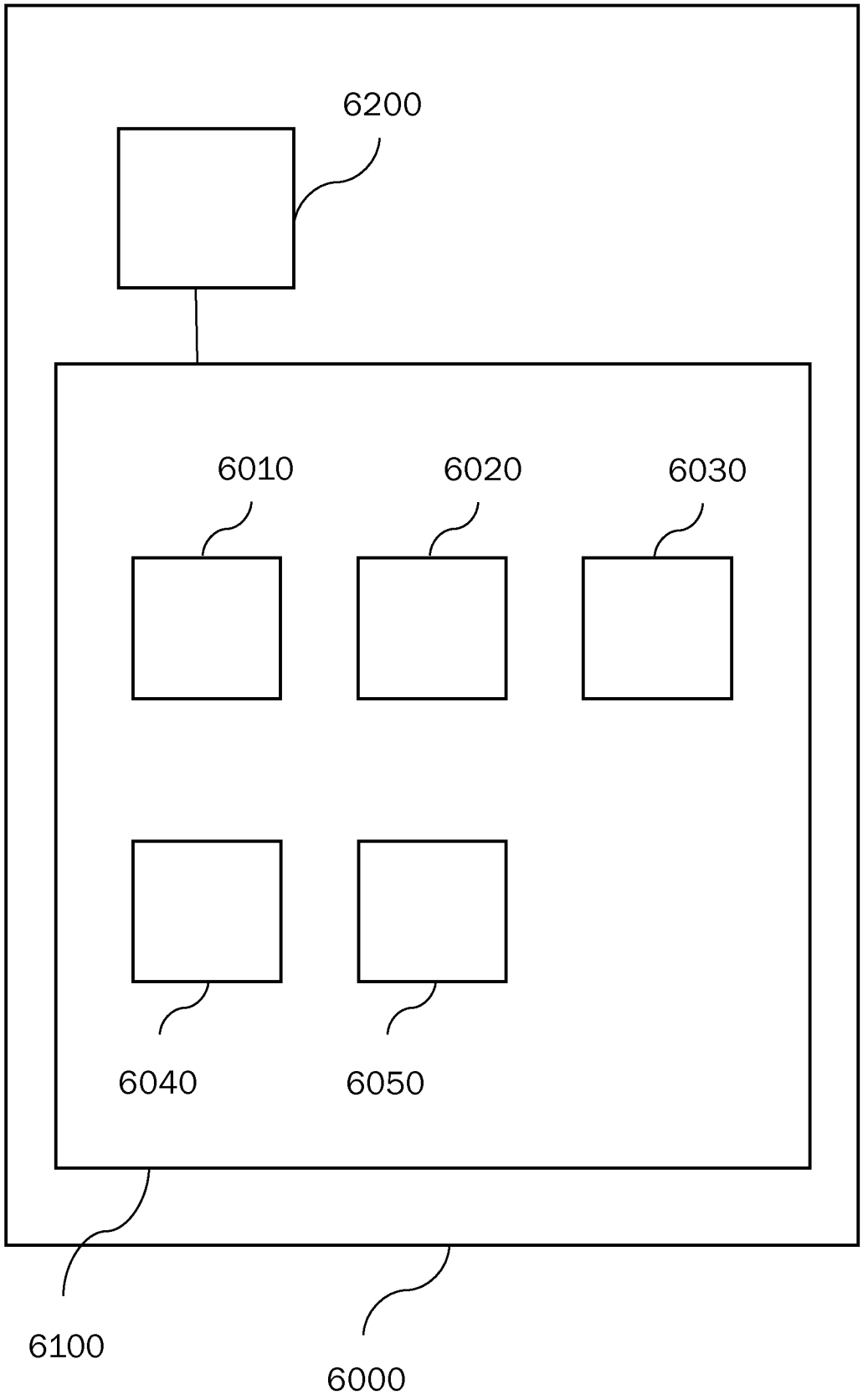

Fig. 6