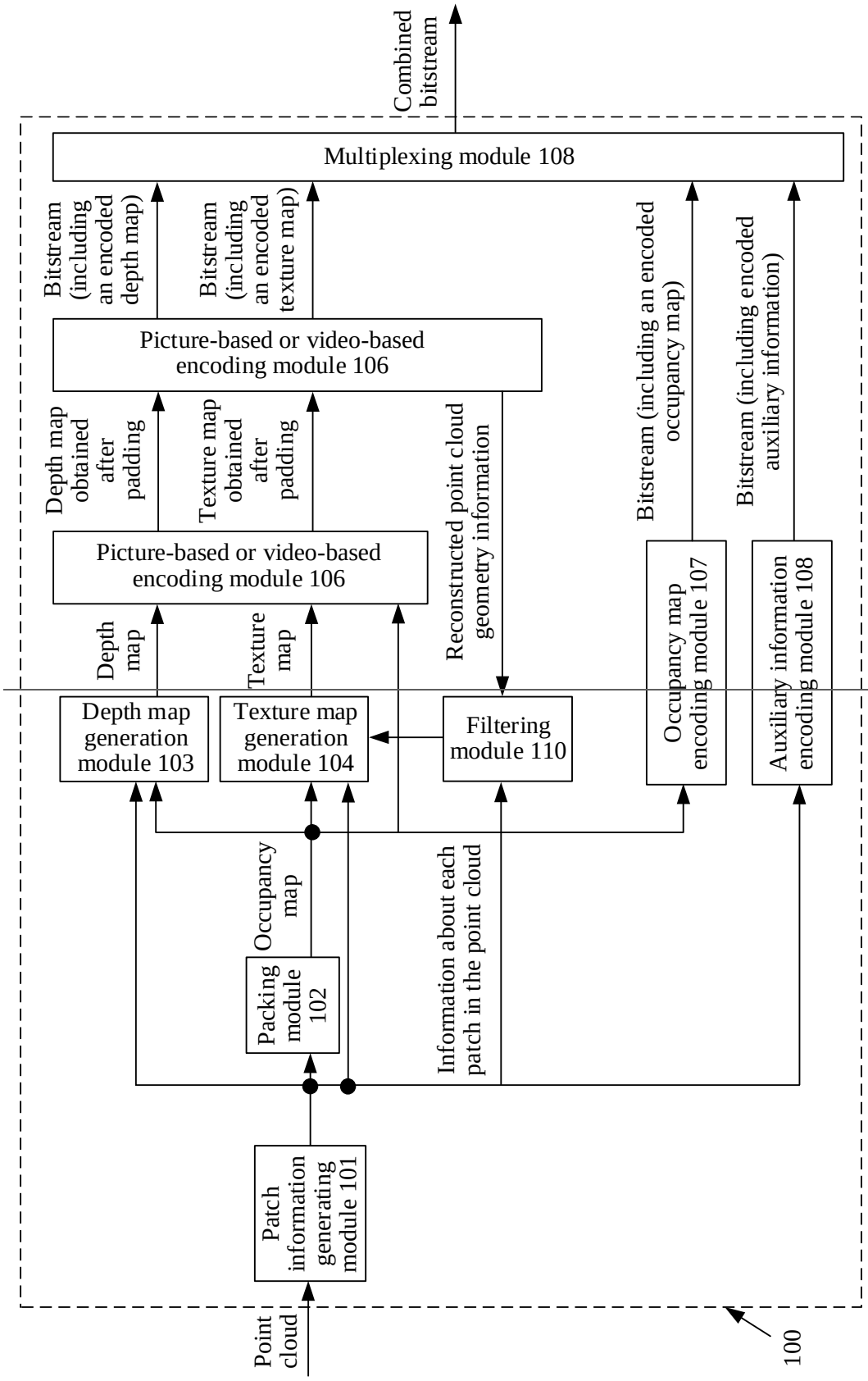

Combined bitstream
Multiplexing module 108
Bitstream (including an encoded depth map)
Bitstream (including an encoded texture map)
Bitstream (including an encoded occupancy map)
Bitstream (including encoded auxiliary information)
Picture-based or video-based encoding module 106
Depth map obtained after padding
Texture map obtained after padding
Reconstructed point cloud geometry information
Picture-based or video-based encoding module 106
Depth map
Texture map
Depth map generation module 103
Texture map generation module 104
Filtering module 110
Occupancy map encoding module 107
Auxiliary information encoding module 108
Occupancy map
Information about each patch in the point cloud
Packing module 102
Patch information generating module 101
Point cloud
100

FIG. 2

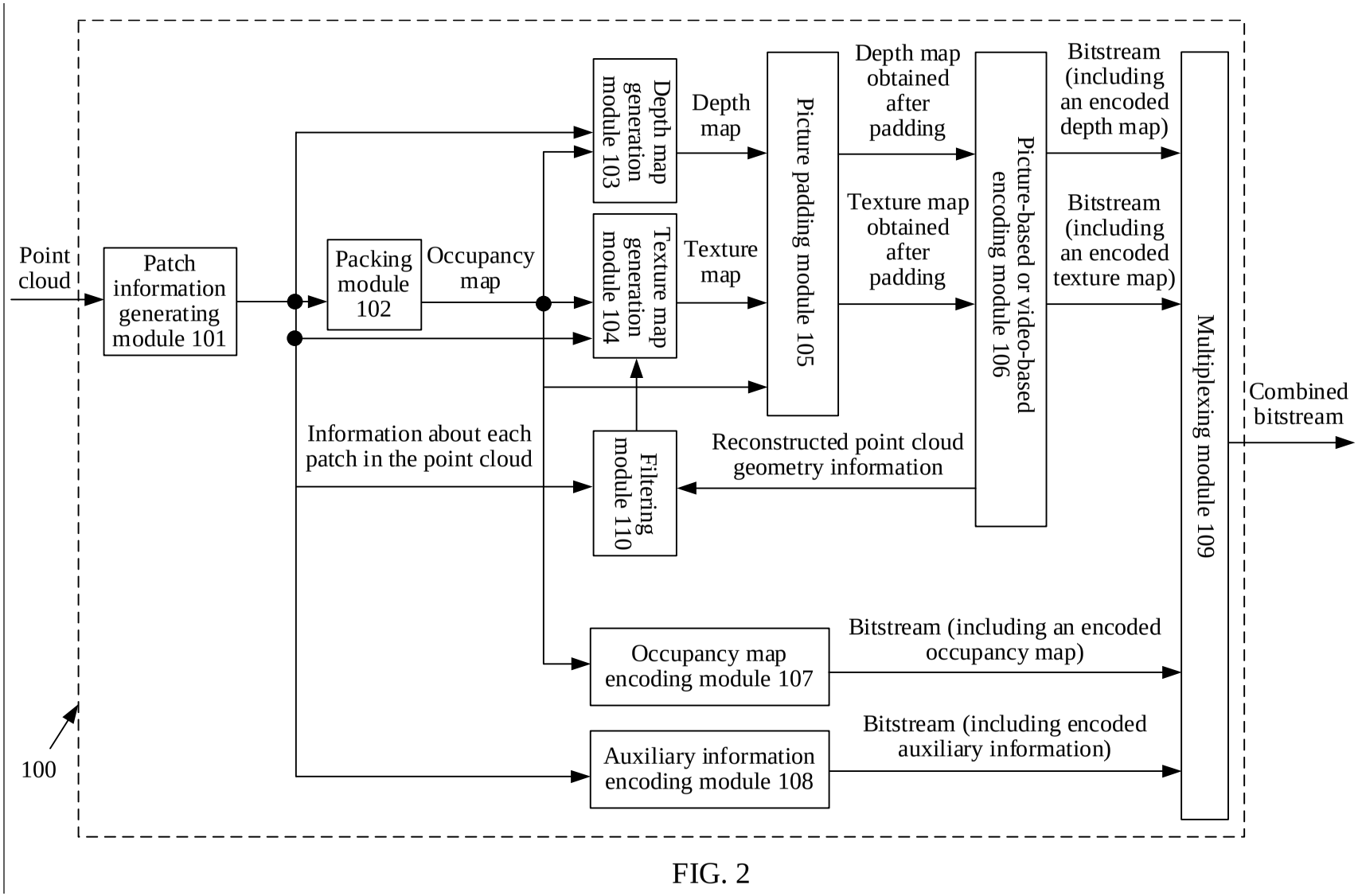

Point cloud
Patch information generating module 101
Packing module 102
Occupancy map
Depth map generation module 103
Texture map generation module 104
Depth map
Texture map
Picture padding module 105
Depth map obtained after padding
Texture map obtained after padding
Picture-based or video-based encoding module 106
Bitstream (including an encoded depth map)
Bitstream (including an encoded texture map)
Multiplexing module 109
Combined bitstream
Information about each patch in the point cloud
Filtering module 110
Reconstructed point cloud geometry information
Occupancy map encoding module 107
Bitstream (including an encoded occupancy map)
Auxiliary information encoding module 108
Bitstream (including encoded auxiliary information)
100

FIG. 2