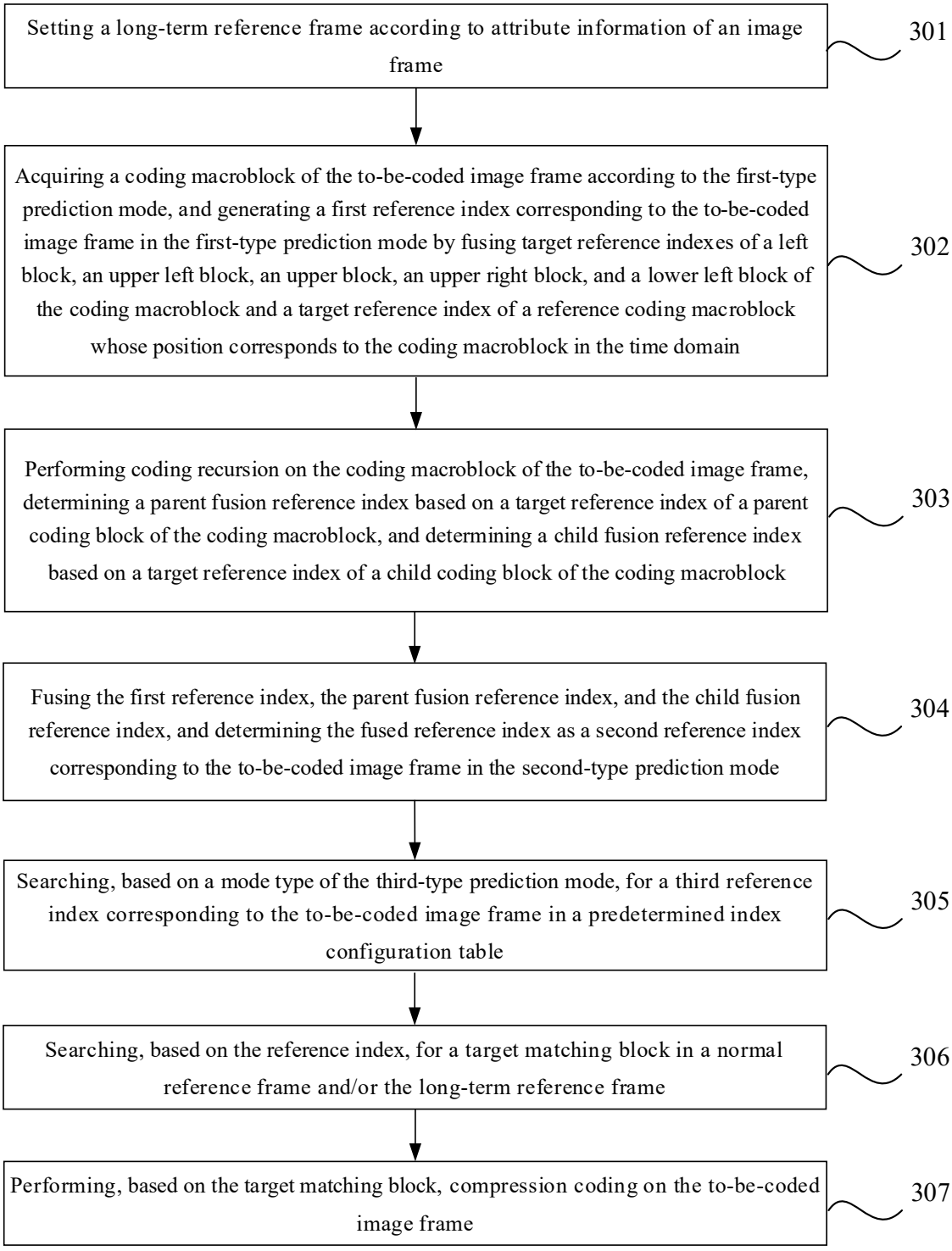

Setting a long-term reference frame according to attribute information of an image frame
301
Acquiring a coding macroblock of the to-be-coded image frame according to the first-type prediction mode, and generating a first reference index corresponding to the to-be-coded image frame in the first-type prediction mode by fusing target reference indexes of a left block, an upper left block, an upper block, an upper right block, and a lower left block of the coding macroblock and a target reference index of a reference coding macroblock whose position corresponds to the coding macroblock in the time domain
302
Performing coding recursion on the coding macroblock of the to-be-coded image frame, determining a parent fusion reference index based on a target reference index of a parent coding block of the coding macroblock, and determining a child fusion reference index based on a target reference index of a child coding block of the coding macroblock
303
Fusing the first reference index, the parent fusion reference index, and the child fusion reference index, and determining the fused reference index as a second reference index corresponding to the to-be-coded image frame in the second-type prediction mode
304
Searching, based on a mode type of the third-type prediction mode, for a third reference index corresponding to the to-be-coded image frame in a predetermined index configuration table
305
Searching, based on the reference index, for a target matching block in a normal reference frame and/or the long-term reference frame
306
Performing, based on the target matching block, compression coding on the to-be-coded image frame
307

FIG. 3