

S100: perform video compression by using an end-to-end model trained with a single loss function, to obtain video compression information

**FIG. 1**

S101: obtain first motion information according to a current original frame and a previous reconstruction frame



S102: obtain a current prediction frame according to the first motion information and the previous reconstruction frame



S103: obtain first residual information according to the current original frame and the current prediction frame

**FIG. 2A**

S101: Obtain first movement information according to a current original frame and a previous reconstruction frame



S102: Obtain a current prediction frame according to the first motion information and the previous reconstruction frame

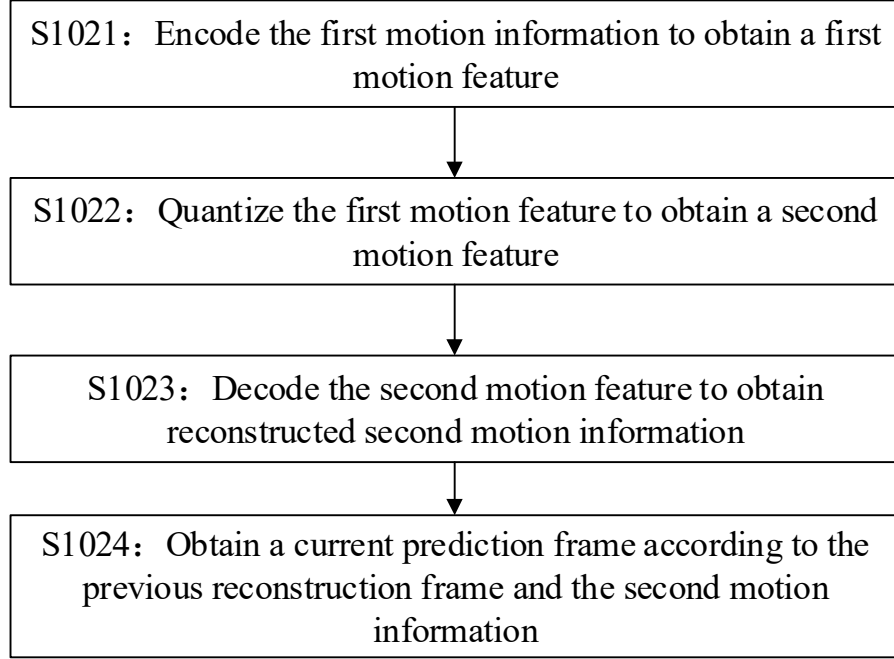


S103: Obtain a first residual information according to the current original frame and the current prediction frame

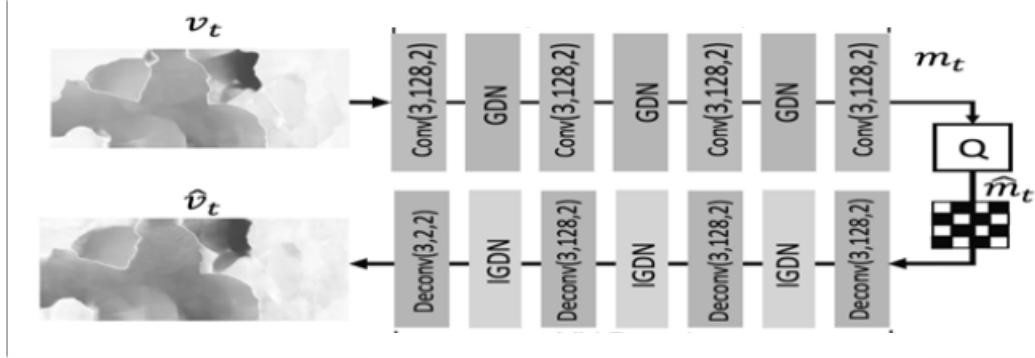


S104: Obtain a current reconstruction frame according to the first residual information and the current prediction frame

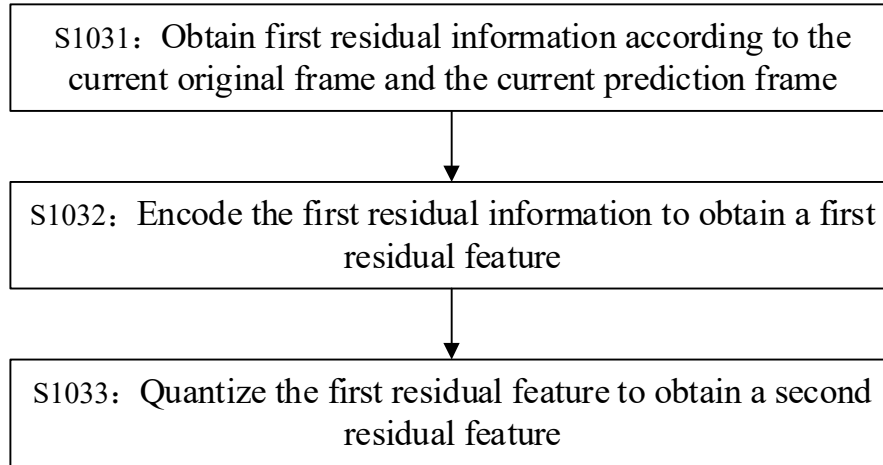
**FIG. 2B**



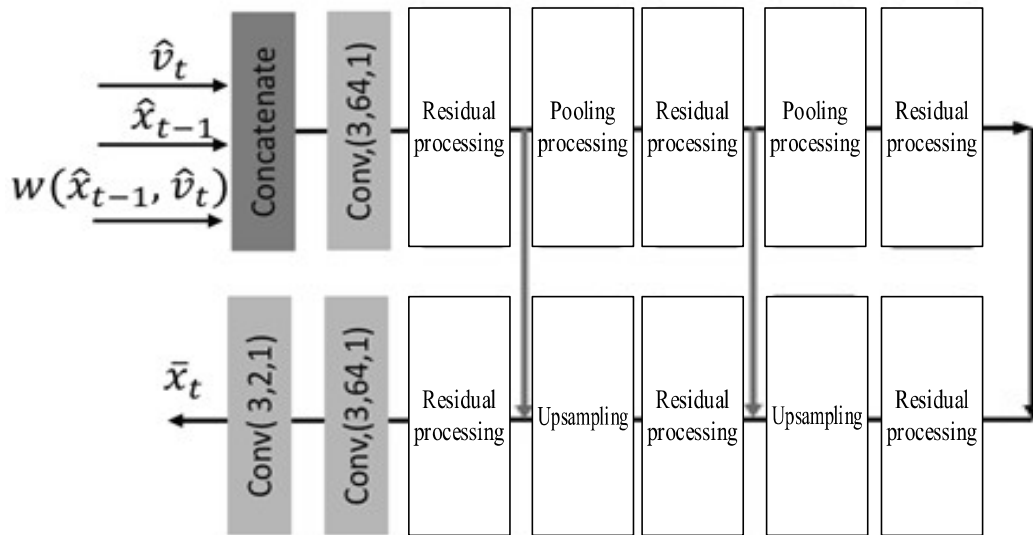
**FIG. 3**



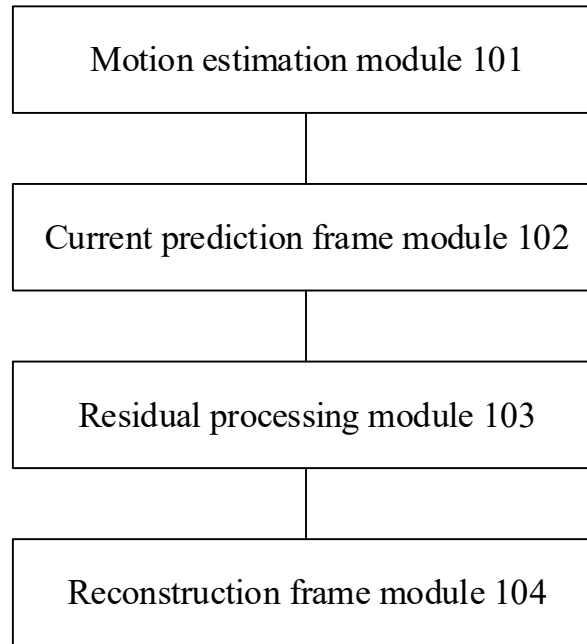
**FIG. 4**



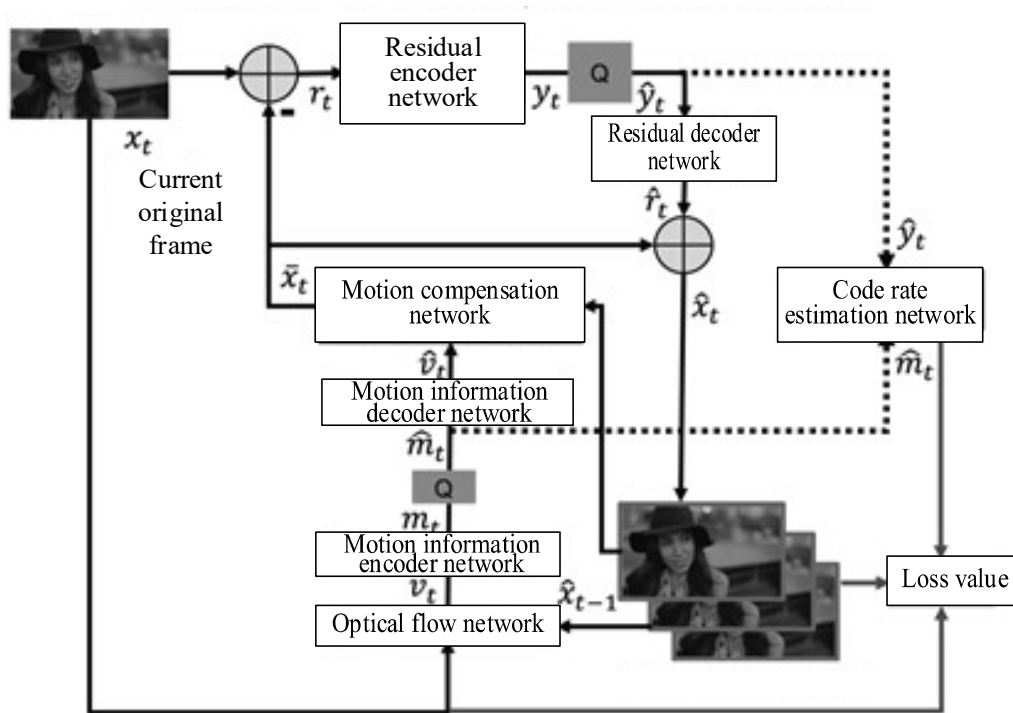
**FIG. 5**



**FIG. 6**



**FIG. 7**



**FIG. 8**

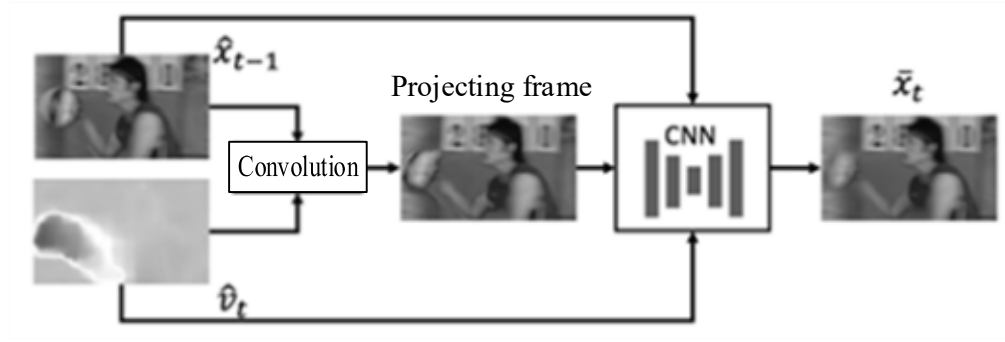


FIG. 9

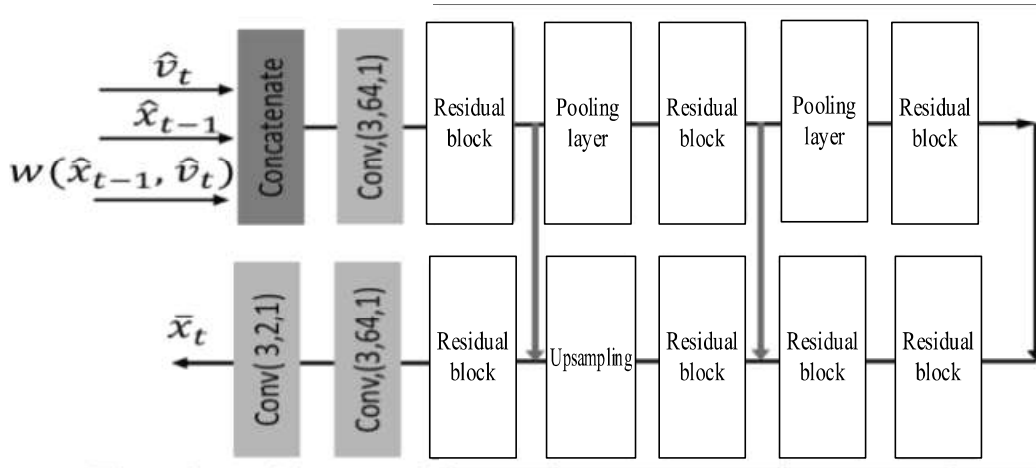


FIG. 10