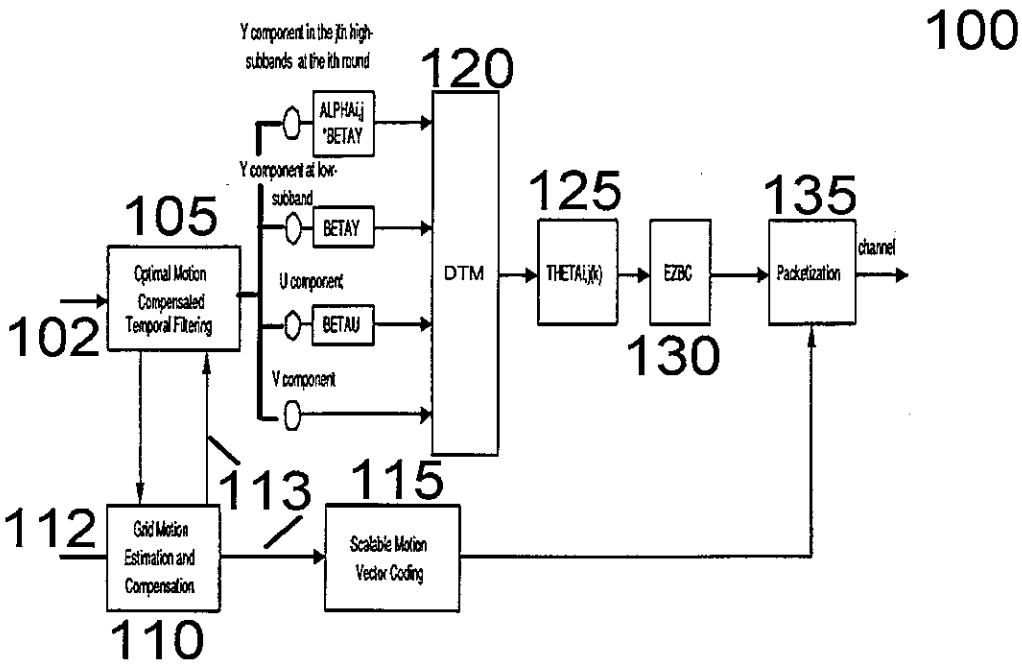

100
Y component in the jth high-subbands at the ith round
120
ALPHAi,j *BETAY
Y component at low-subband
BETAY
105
Optimal Motion Compensated Temporal Filtering
U component
BETAU
DTM
125
THETAi,j(k)
EZBC
135
Packetization
channel
130
102
V component
113
115
112
Grid Motion Estimation and Compensation
Scalable Motion Vector Coding
110

Fig. 1

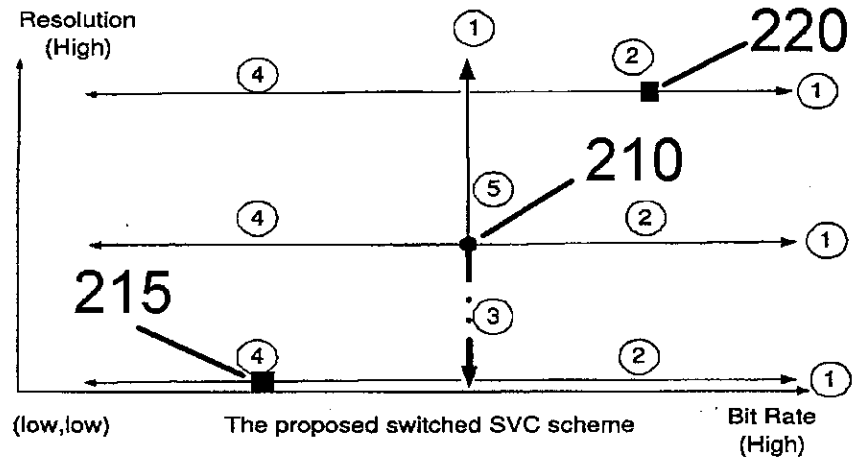

Resolution (High)
220
210
215
(low,low)
The proposed switched SVC scheme
Bit Rate (High)

Fig. 2

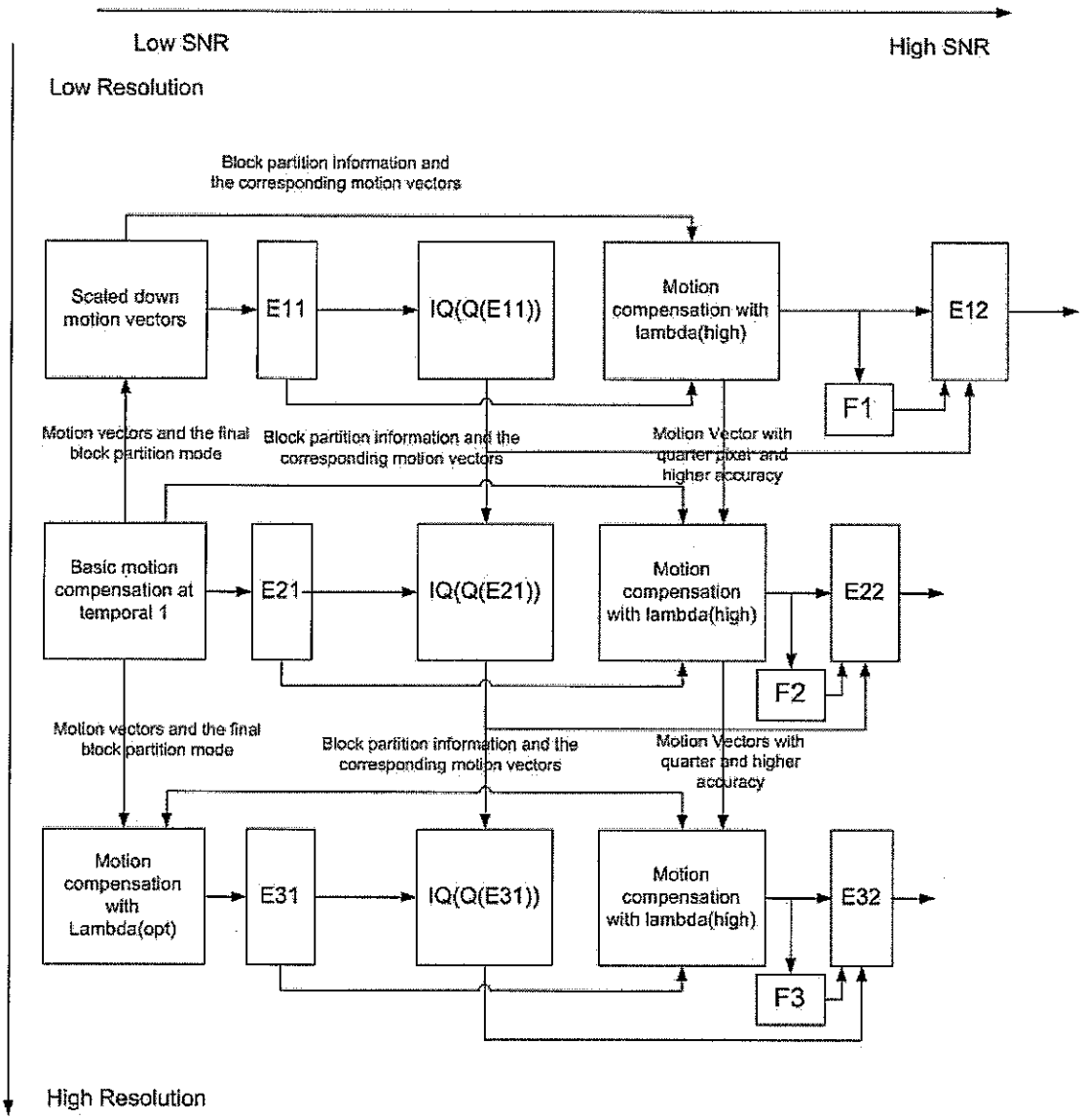

Low SNR
High SNR
Low Resolution
Block partition information and the corresponding motion vectors
Scaled down motion vectors
E11
IQ(Q(E11))
Motion compensation with lambda(high)
E12
F1
Motion vectors and the final block partition mode
Block partition information and the corresponding motion vectors
Motion Vector with quarter pixel and higher accuracy
Basic motion compensation at temporal 1
E21
IQ(Q(E21))
Motion compensation with lambda(high)
E22
F2
Motion vectors and the final block partition mode
Block partition information and the corresponding motion vectors
Motion Vectors with quarter and higher accuracy
Motion compensation with Lambda(opt)
E31
IQ(Q(E31))
Motion compensation with lambda(high)
E32
F3
High Resolution

Fig. 3

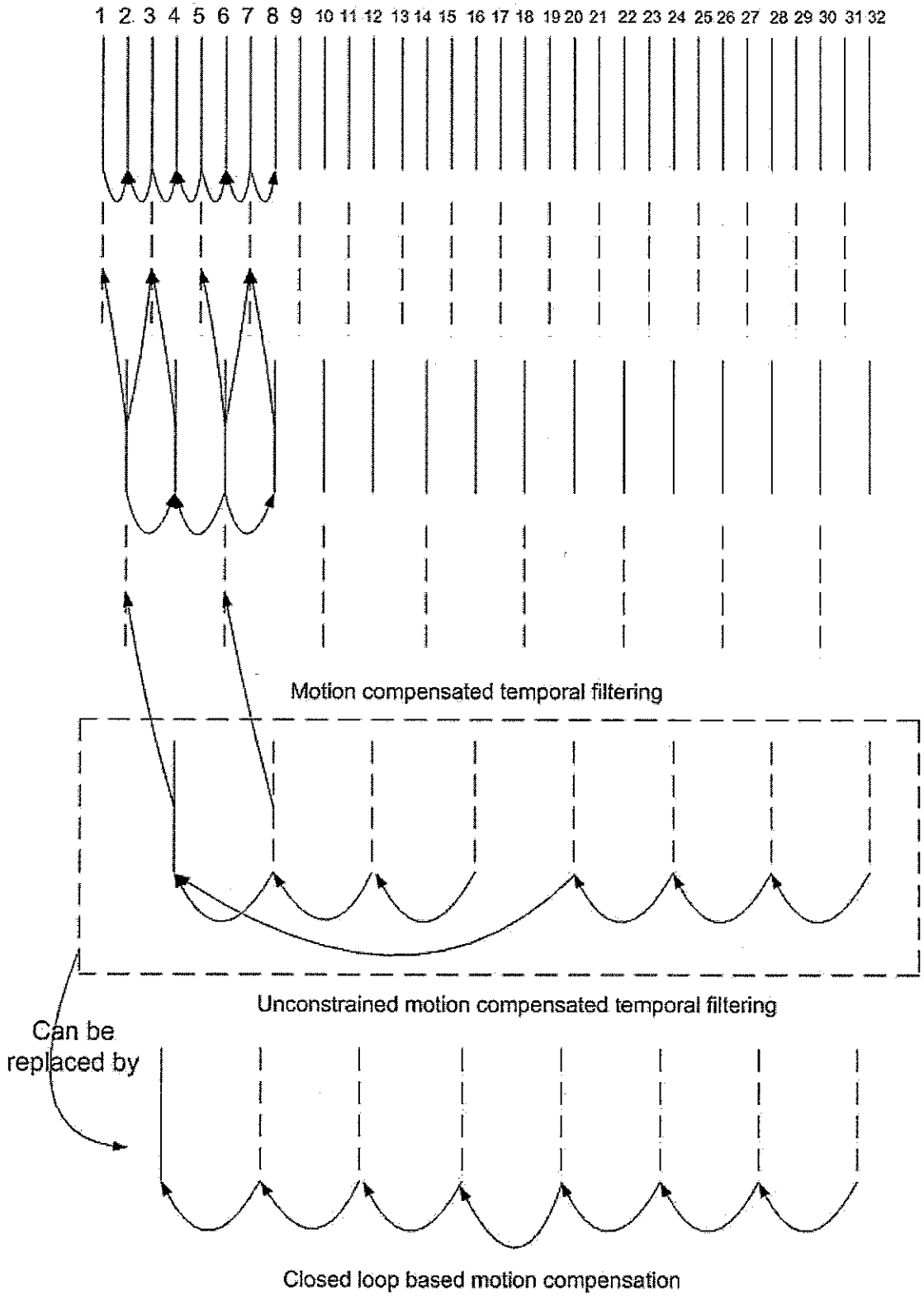

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Motion compensated temporal filtering
Unconstrained motion compensated temporal filtering
Can be replaced by
Closed loop based motion compensation

Fig. 4