

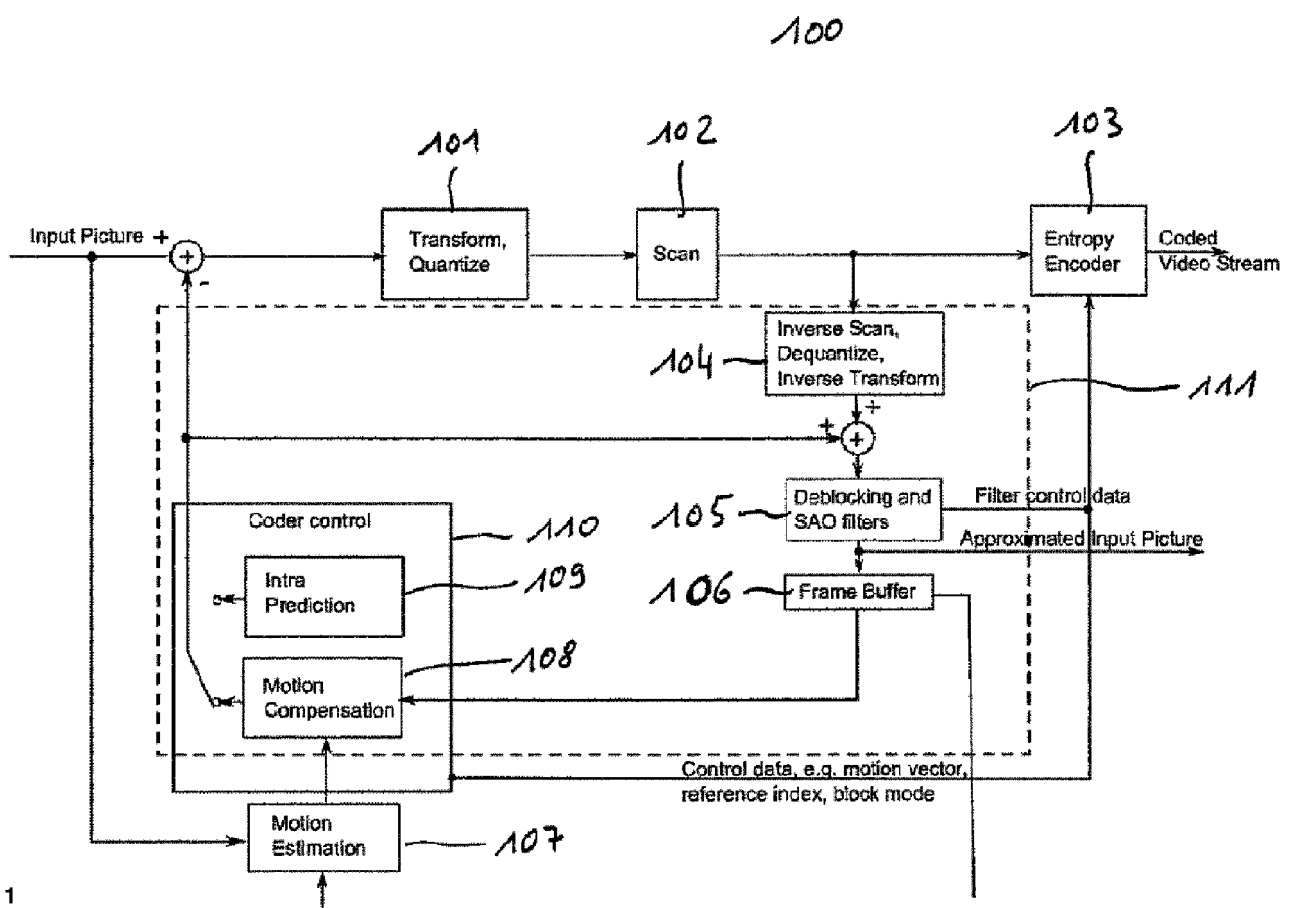


Fig. 1

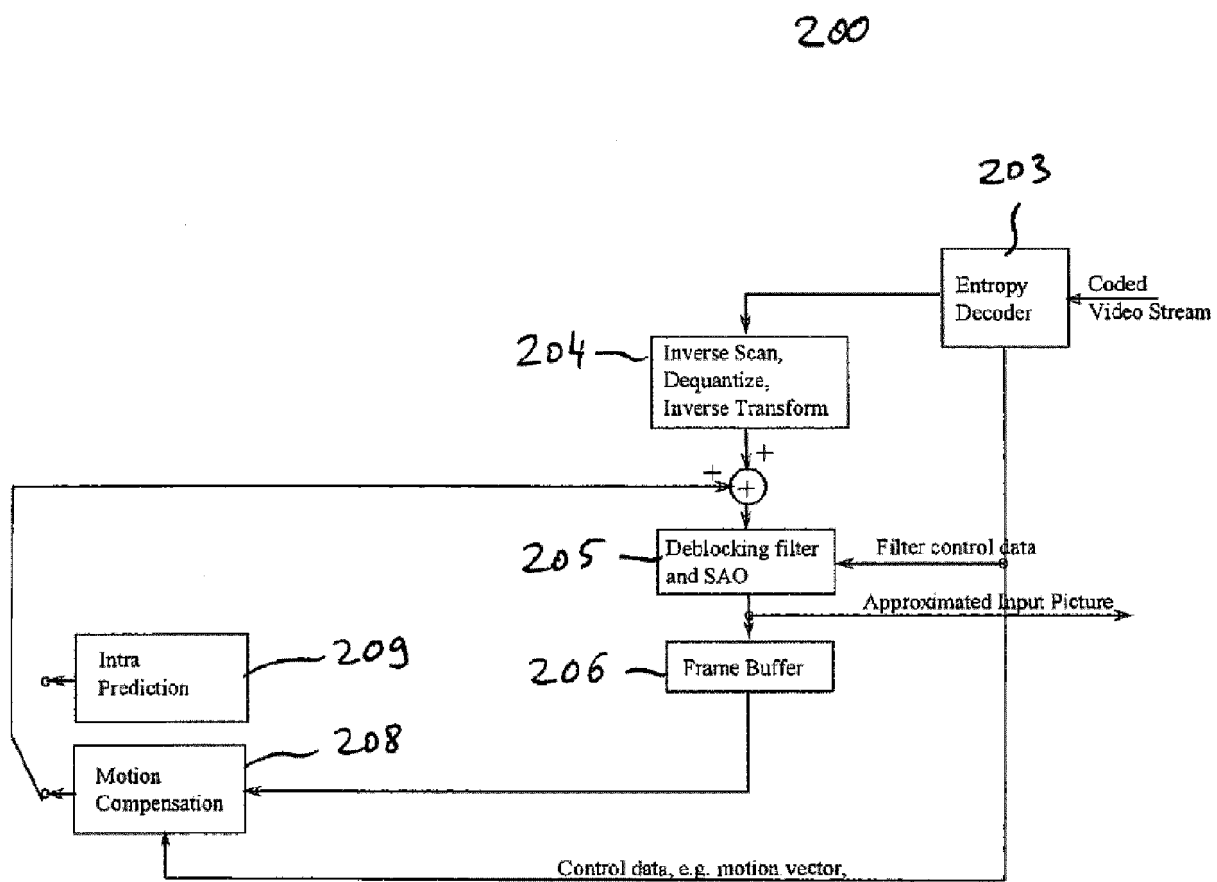
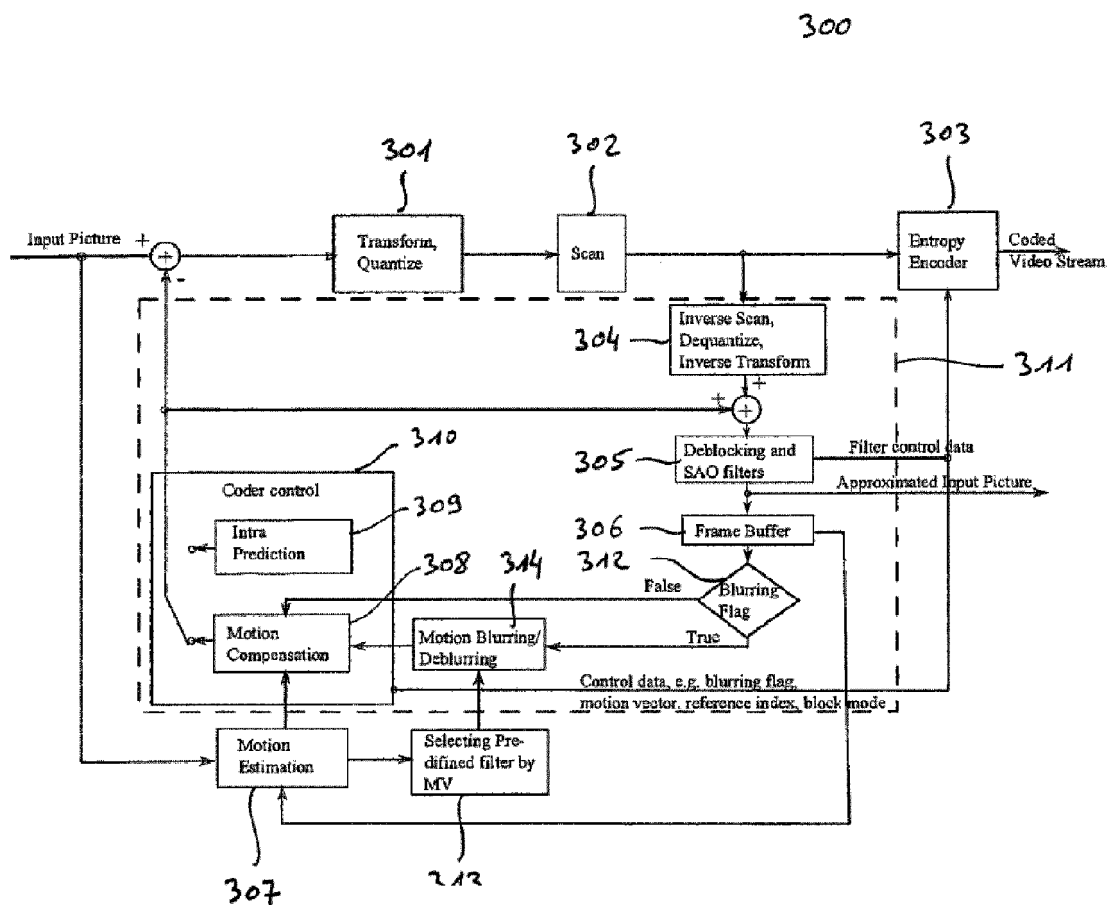


Fig. 2



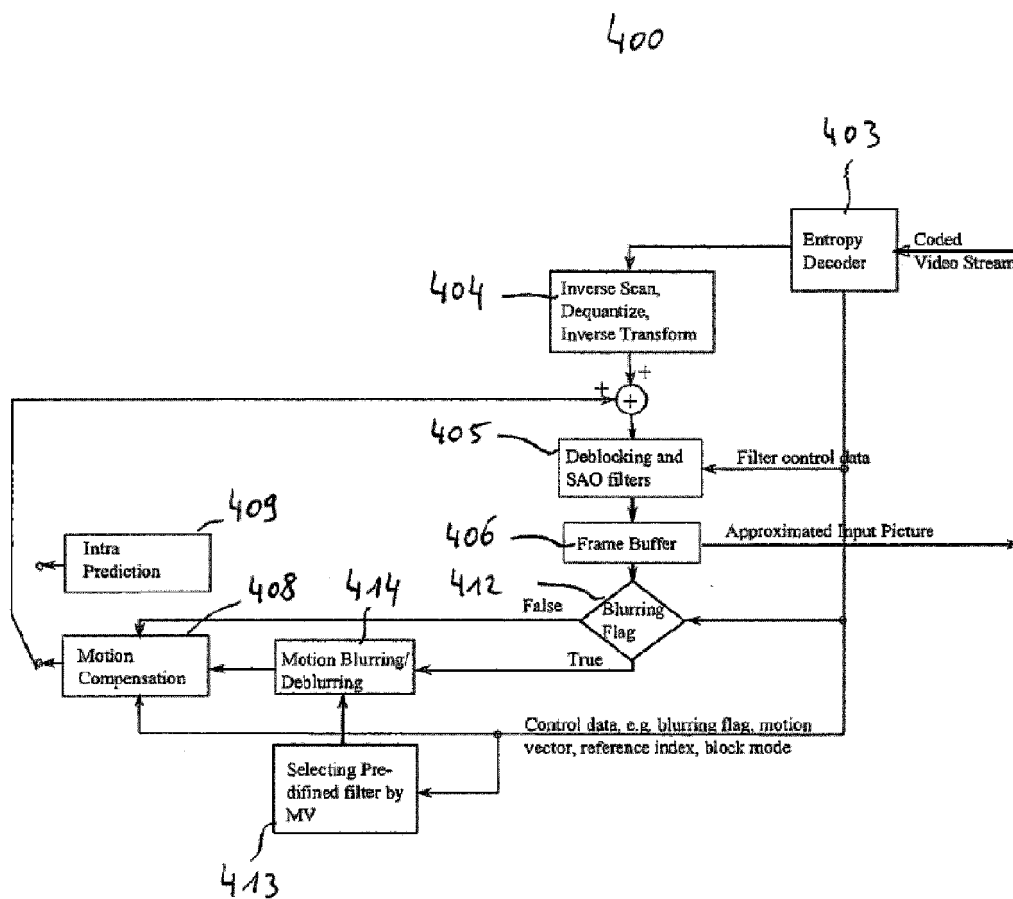


Fig. 4

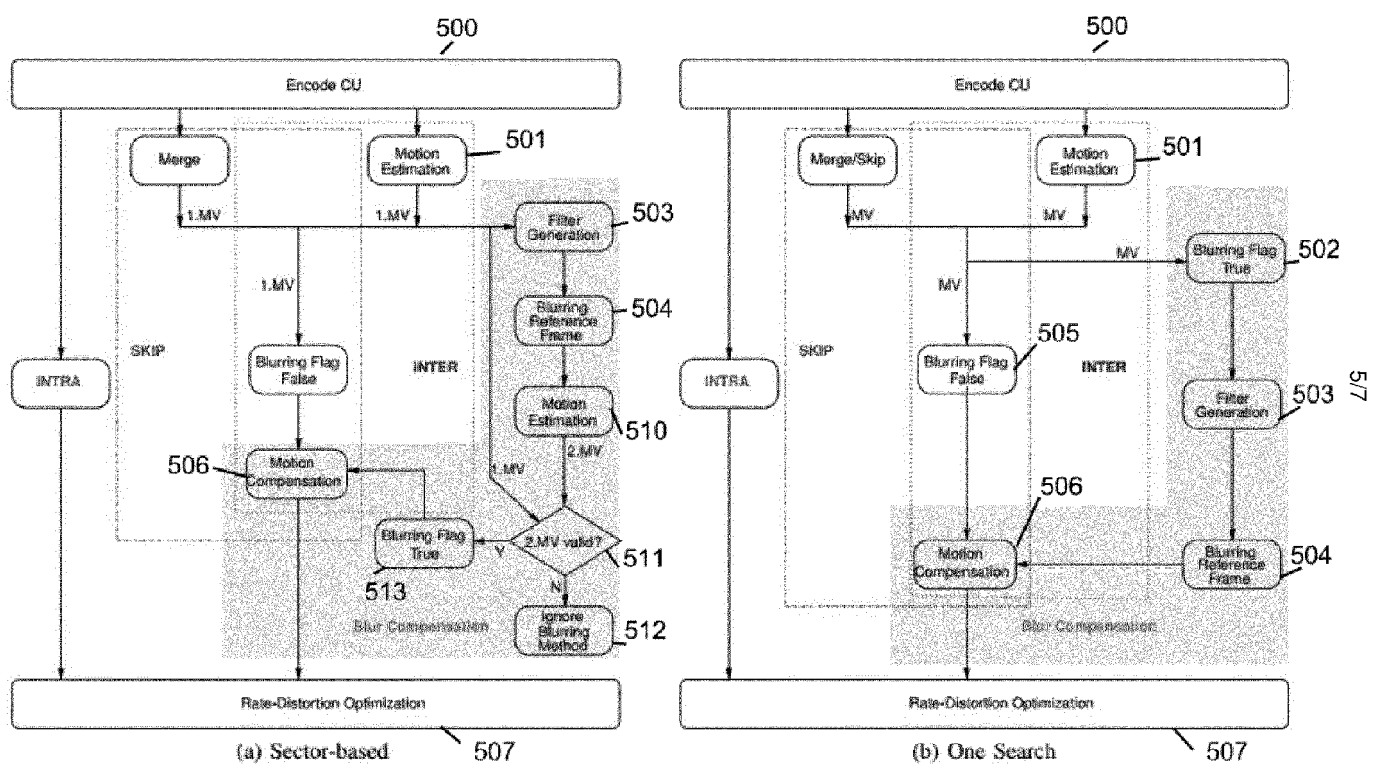


Fig. 5

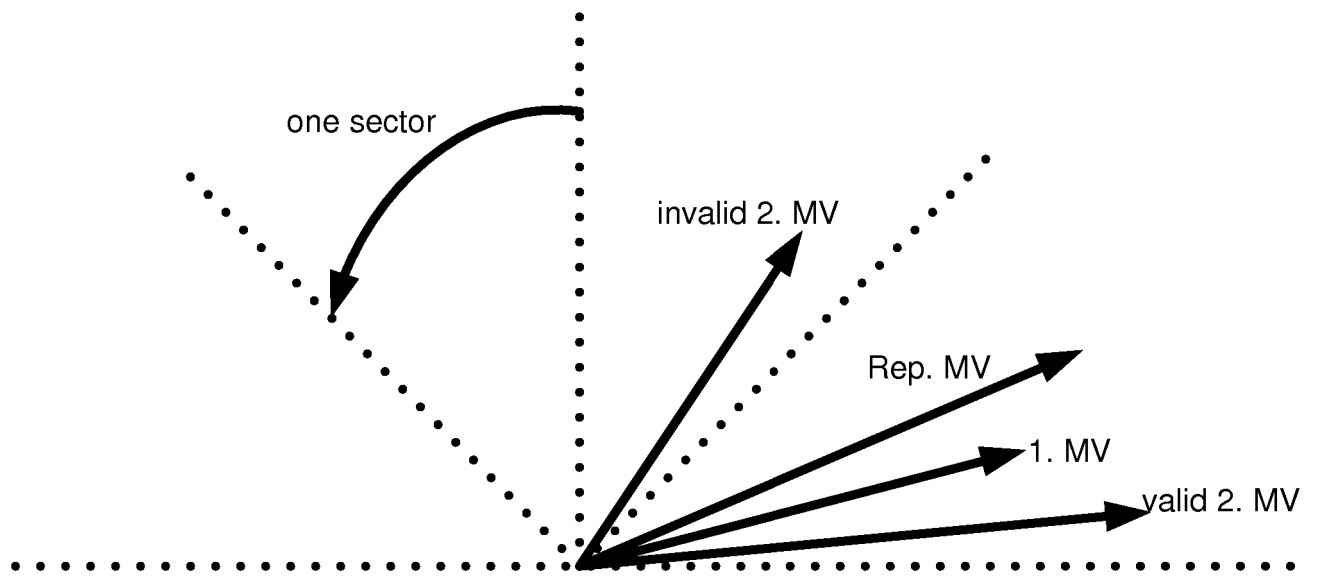
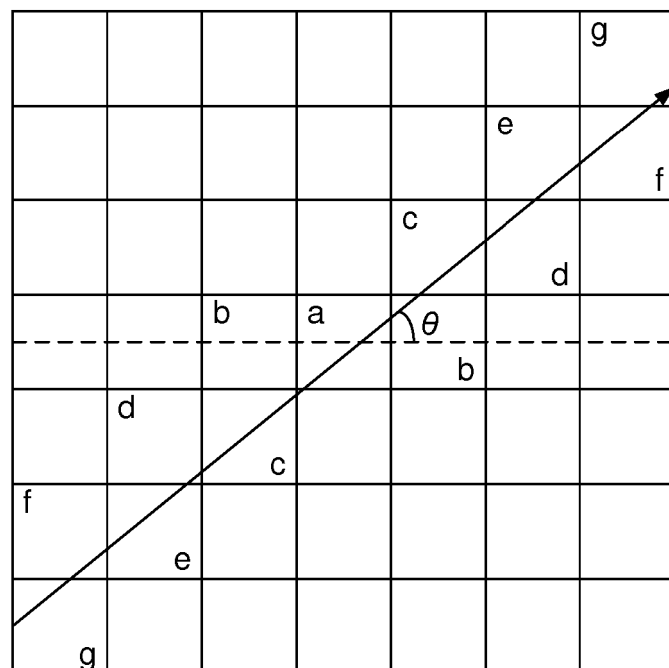


Fig. 6



Coefficients

- a = $\frac{8}{56}$
- b = $\frac{1}{56}$
- c = $\frac{7}{56}$
- d = $\frac{3}{56}$
- e = $\frac{5}{56}$
- f = $\frac{5}{56}$
- g = $\frac{3}{56}$

Fig. 7

θ	$[0, \arcsin \frac{1}{3}]$	$[\arcsin \frac{1}{3}, \arccos \frac{1}{3}]$	$[\arccos \frac{1}{3}, \pi - \arccos \frac{1}{3}]$	$[\pi - \arccos \frac{1}{3}, \pi - \arcsin \frac{1}{3}]$	$[\pi - \arcsin \frac{1}{3}, \pi]$
a	0			$\frac{1}{2} - \frac{1}{6} \frac{1}{\min(\sin \theta, -\cos \theta)}$	0
b	0	$\max(0, \frac{1}{6} (\frac{1}{\cos \theta} - \frac{1}{\sin \theta}))$	$\frac{1}{2} - \frac{1}{6} \frac{1}{\sin \theta}$	$\max(0, -\frac{1}{6} (\frac{1}{\cos \theta} + \frac{1}{\sin \theta}))$	0
c	0	$\frac{1}{2} - \frac{1}{6} \frac{1}{\min(\sin \theta, \cos \theta)}$	0		
d	$\frac{1}{2} - \frac{1}{6} \frac{1}{\cos \theta}$	$\max(0, \frac{1}{6} (\frac{1}{\sin \theta} - \frac{1}{\cos \theta}))$	0	$\max(0, \frac{1}{6} (\frac{1}{\sin \theta} + \frac{1}{\cos \theta}))$	$\frac{1}{2} + \frac{1}{6} \frac{1}{\cos \theta}$
e	$\frac{1}{3} \frac{1}{\max(\cos \theta , \sin \theta)}$				

Fig. 8

3×3 Filter	$\theta = 15^\circ$	$\theta = 60^\circ$
$\begin{bmatrix} a & b & c \\ d & e & d \\ c & b & a \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 \\ 0.327 & 0.345 & 0.327 \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0.141 & 0.167 \\ 0 & 0.381 & 0 \\ 0.167 & 0.141 & 0 \end{bmatrix}$

Fig. 9