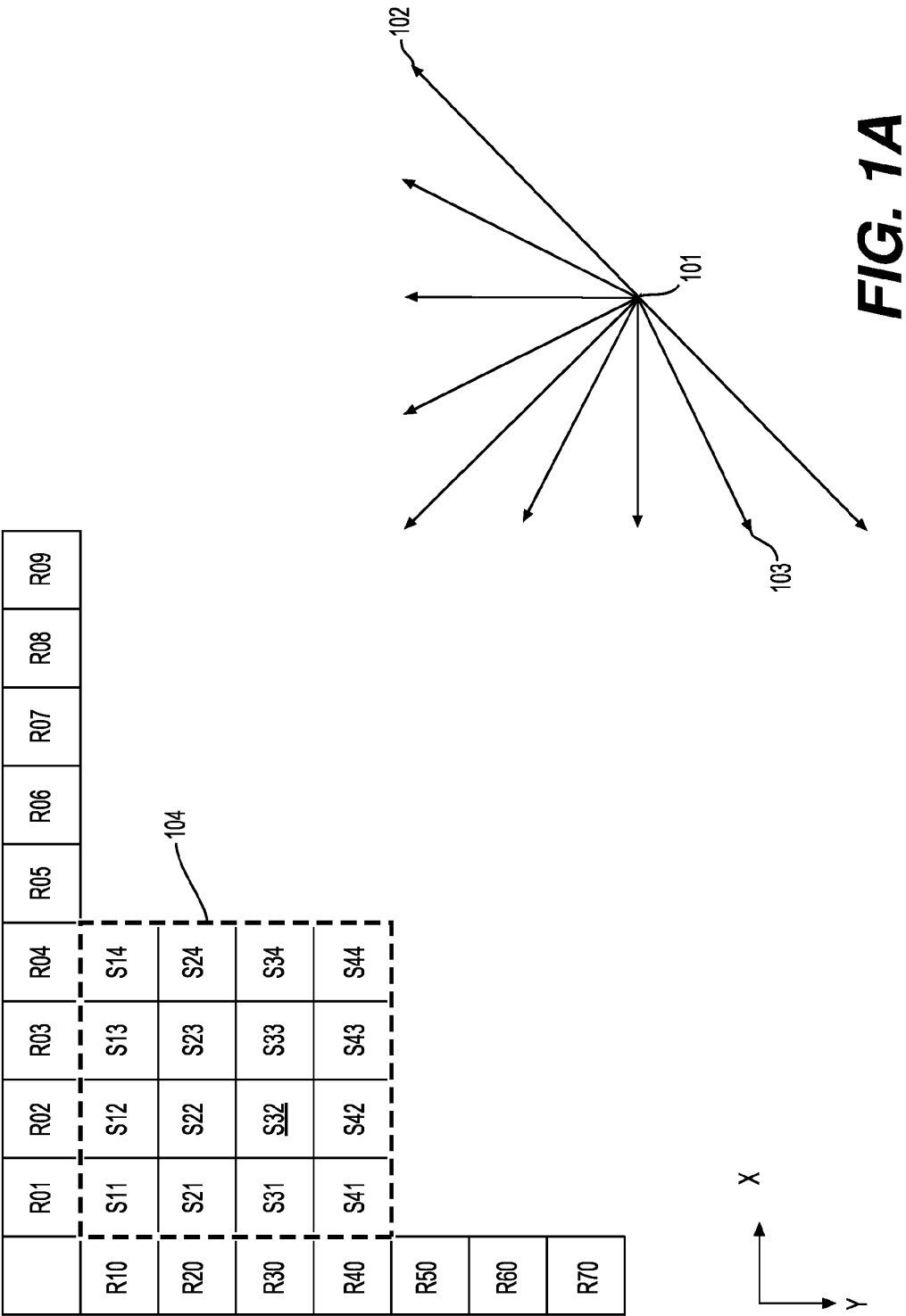




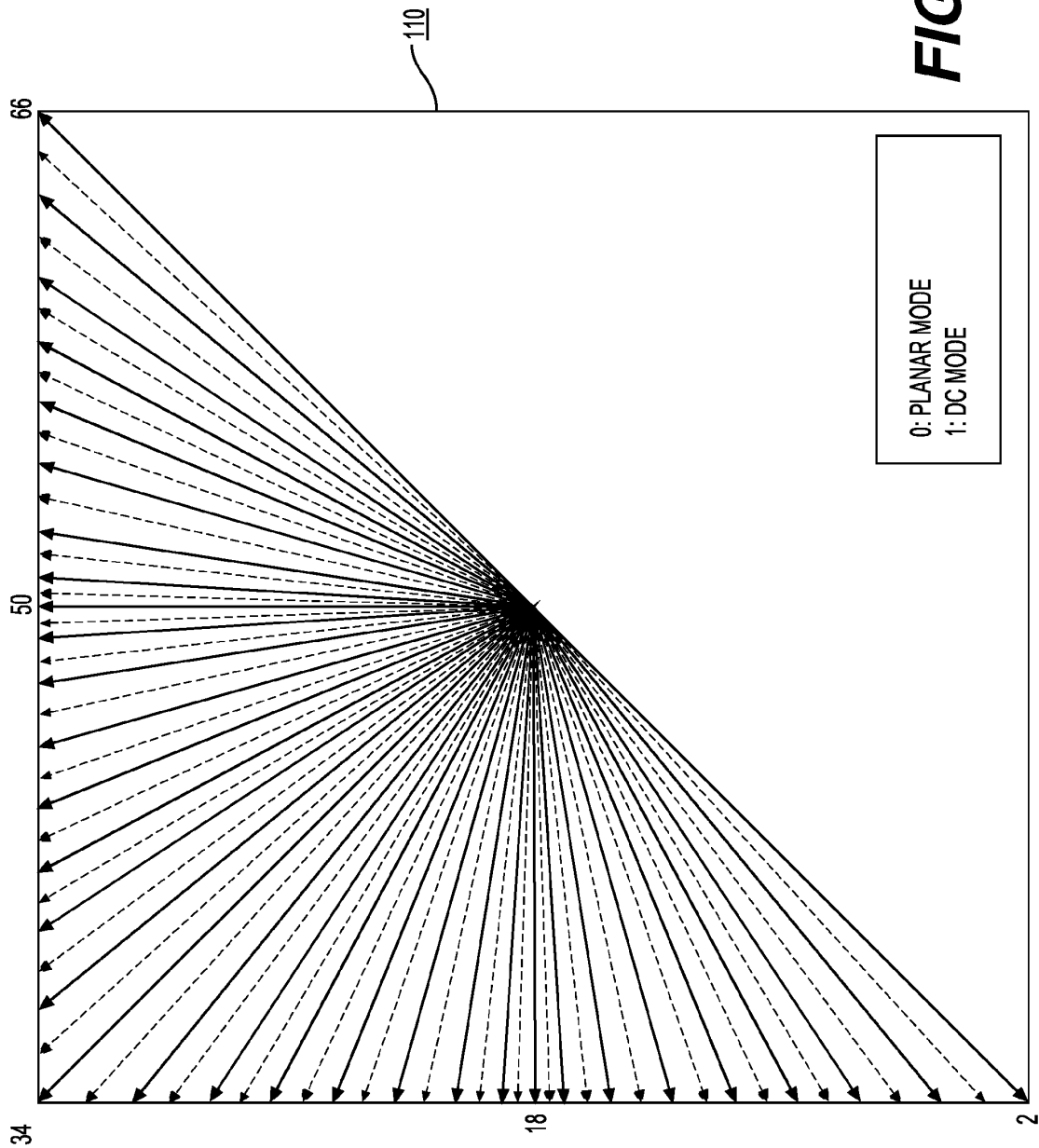


FIG. 1B

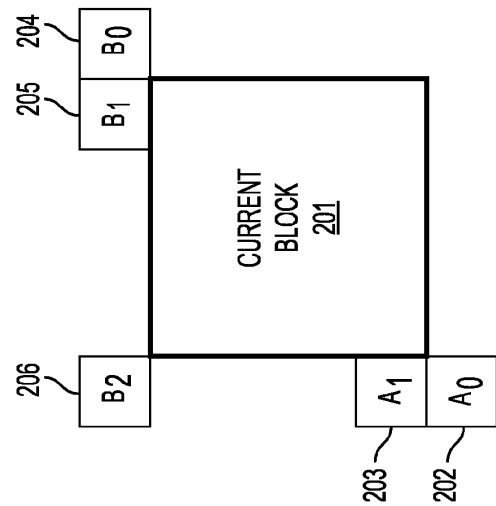


FIG. 2
(Related Art)

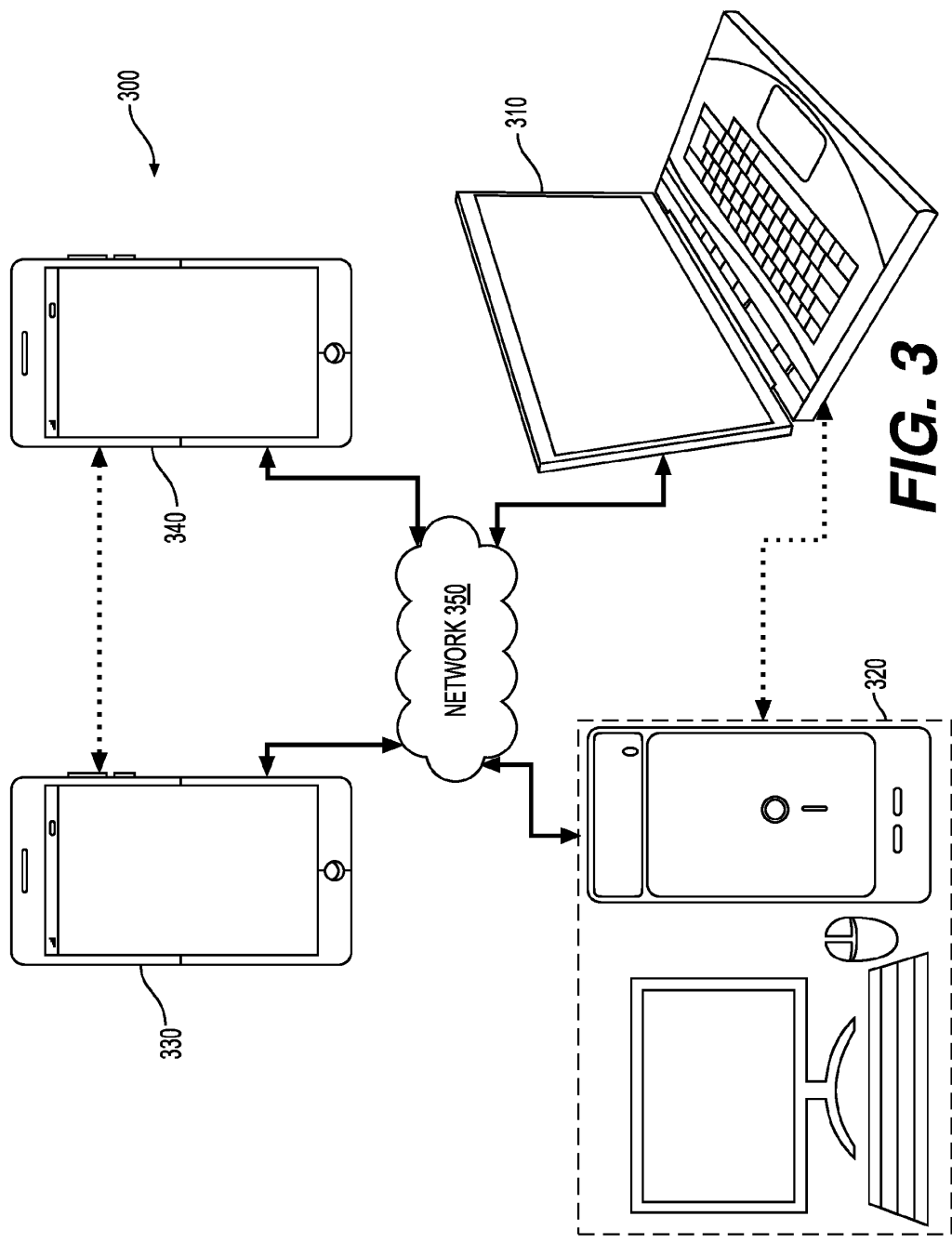


FIG. 3

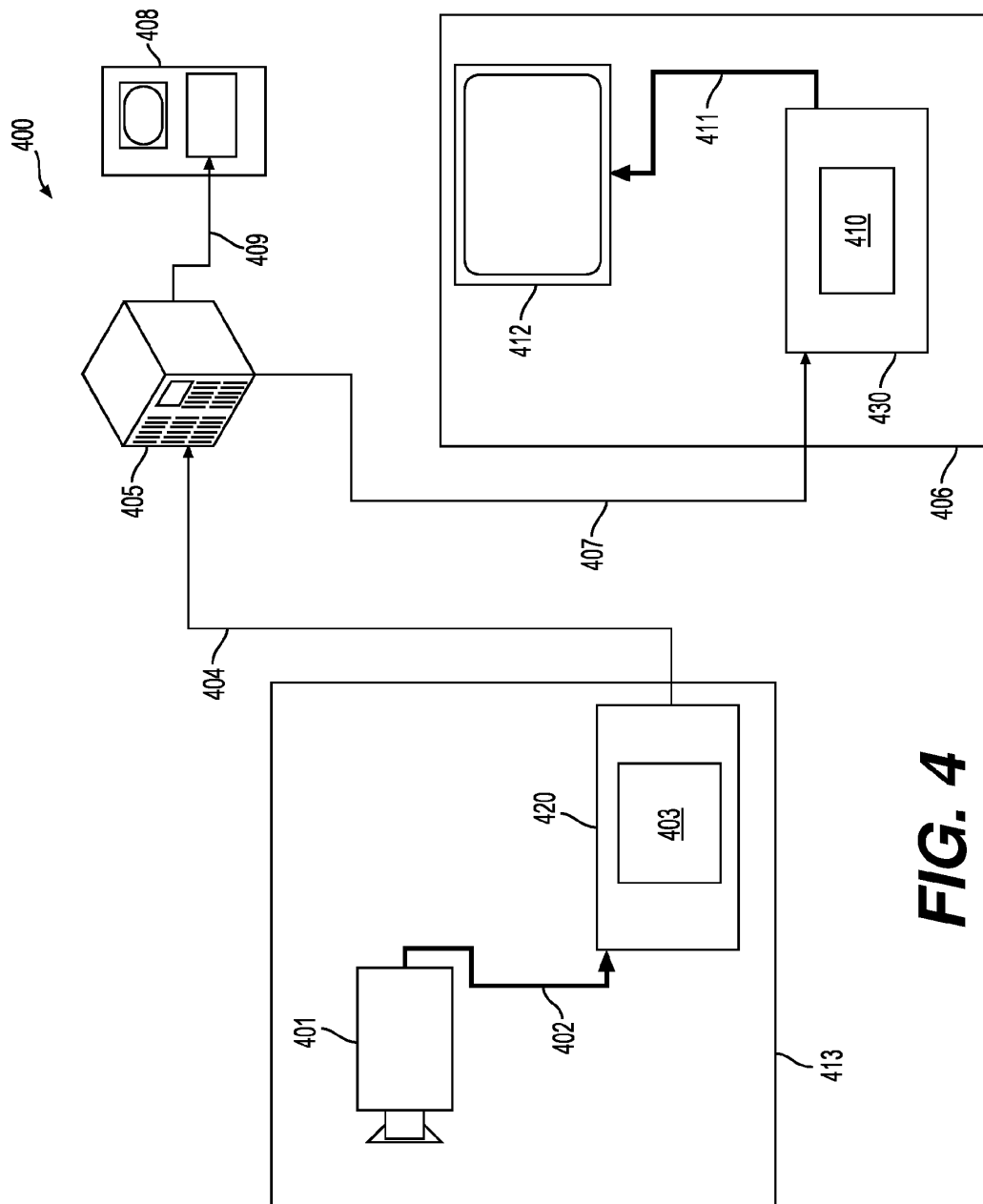


FIG. 4

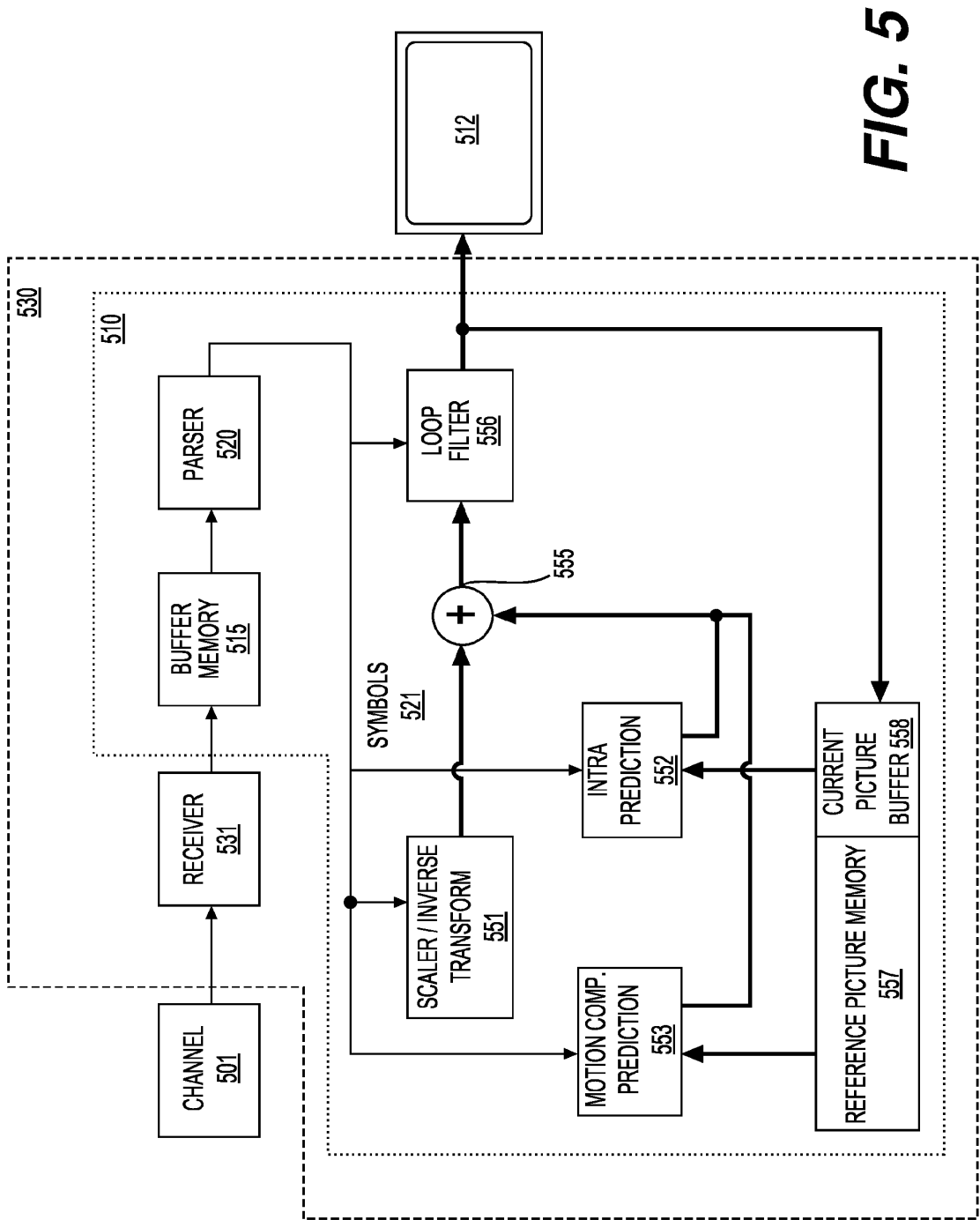
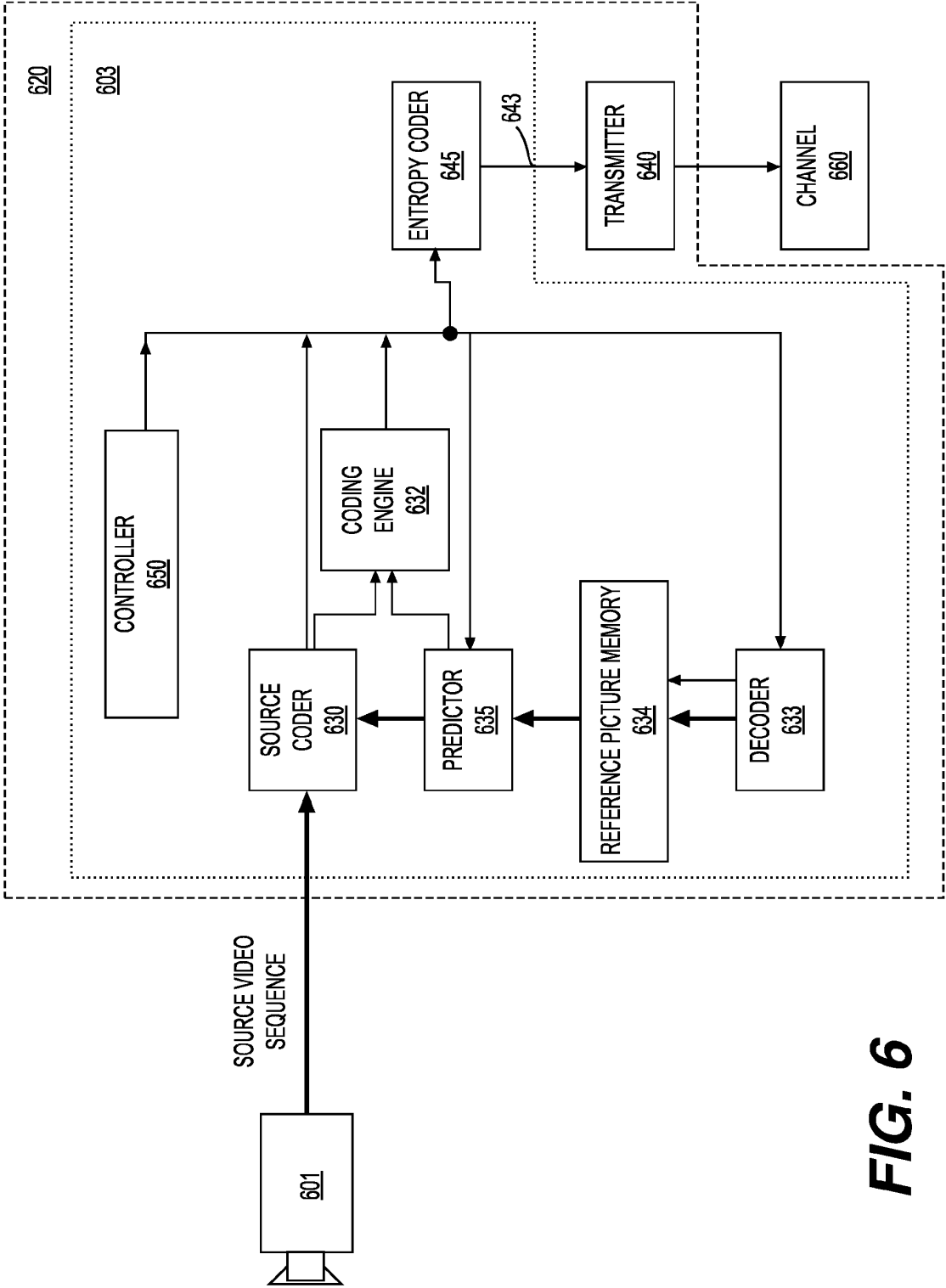


FIG. 5



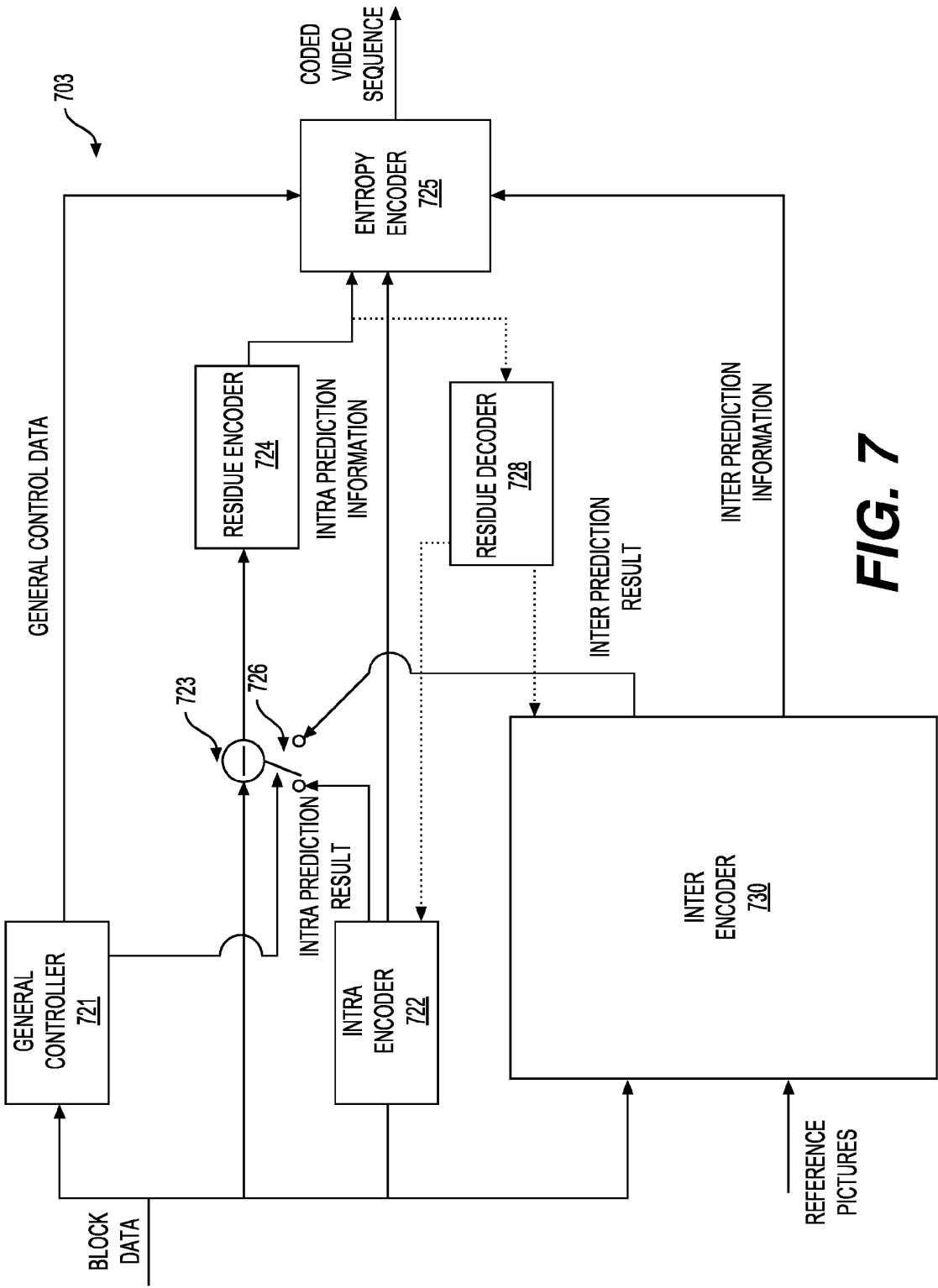


FIG. 7

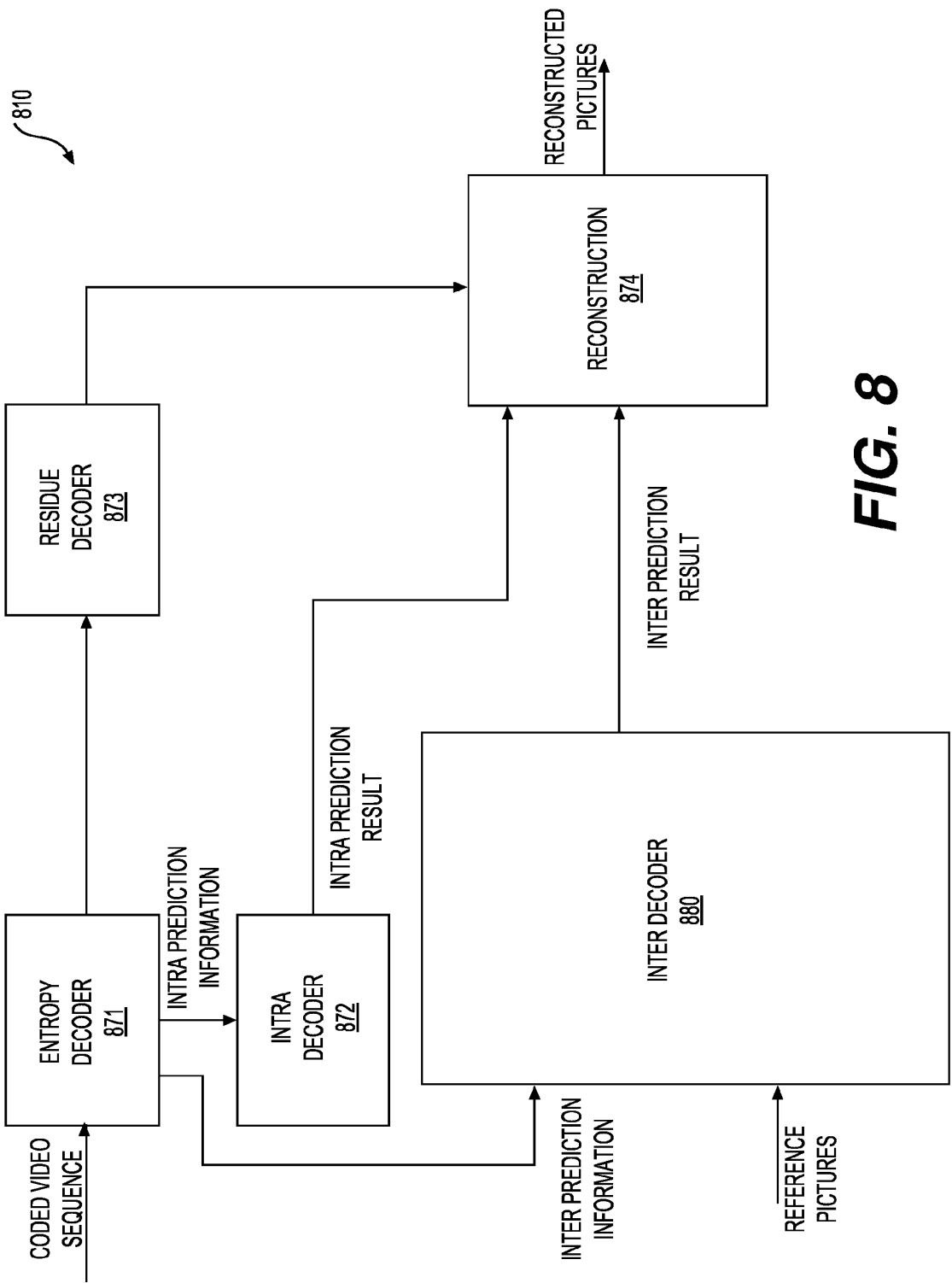


FIG. 8

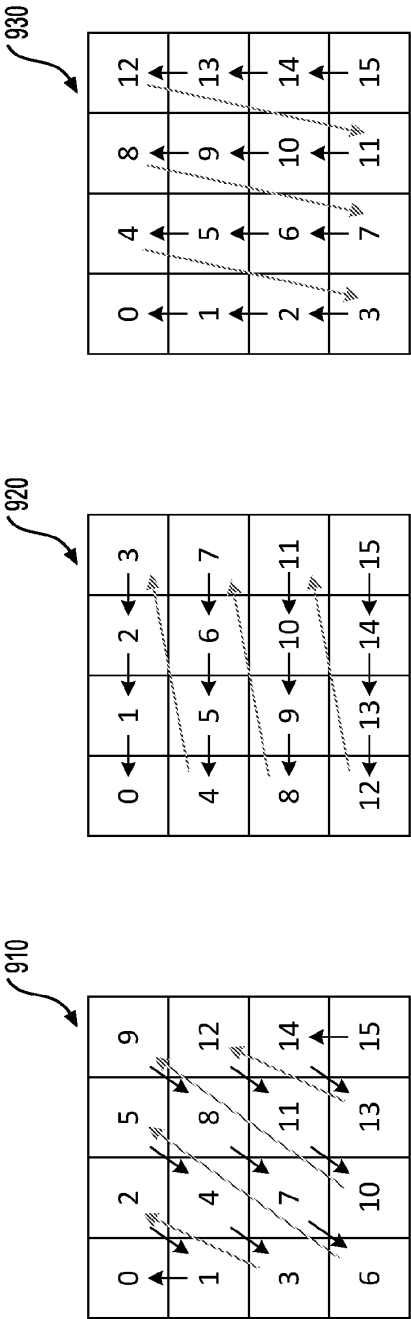


FIG. 9

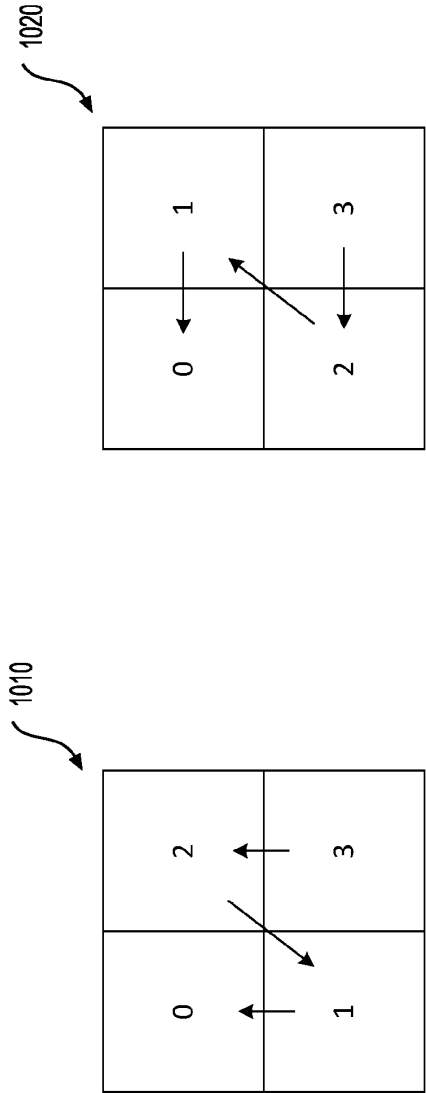


FIG. 10

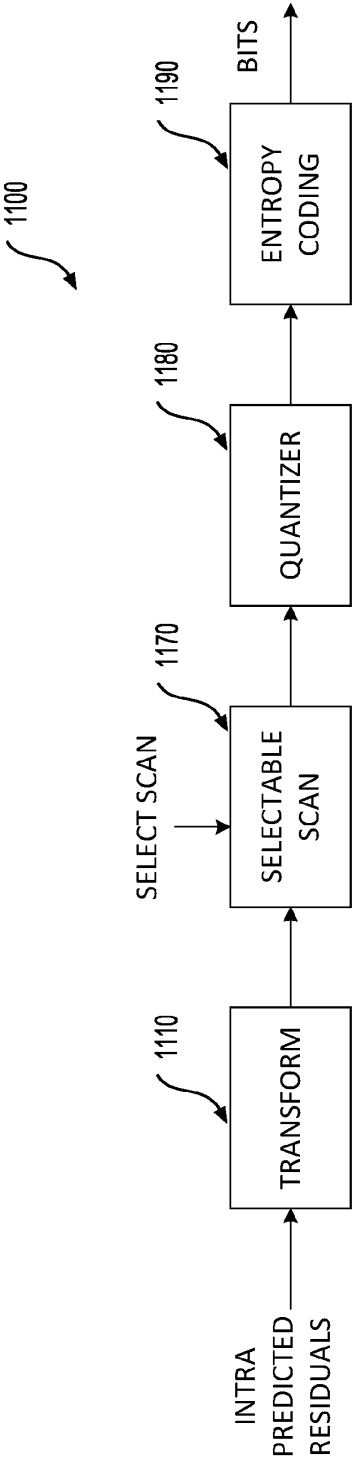


FIG. 11

Transform basis functions of DCT-2, DST-7 and DCT-8 for N-point input	
Transform Type	Basis function $T_i(j)$, $i, j=0, 1, \dots, N-1$
DCT-2	$T_i(j) = \omega_0 \cdot \sqrt{\frac{2}{N}} \cdot \cos\left(\frac{\pi \cdot i \cdot (2j + 1)}{2N}\right)$ $\text{where } \omega_0 = \begin{cases} \sqrt{\frac{2}{N}} & i = 0 \\ 1 & i \neq 0 \end{cases}$
DCT-8	$T_i(j) = \sqrt{\frac{4}{2N + 1}} \cdot \cos\left(\frac{\pi \cdot (2i + 1) \cdot (2j + 1)}{4N + 2}\right)$
DST-7	$T_i(j) = \sqrt{\frac{4}{2N + 1}} \cdot \sin\left(\frac{\pi \cdot (2i + 1) \cdot (j + 1)}{2N + 1}\right)$

FIG. 12

1300

mts_idx	Transform Kernel Function	
	Horizontal	Vertical
0	DCT-2	DCT-2
1	DST-7	DST-7
2	DCT-8	DST-7
3	DST-7	DCT-8
4	DCT-8	DCT-8

FIG. 13

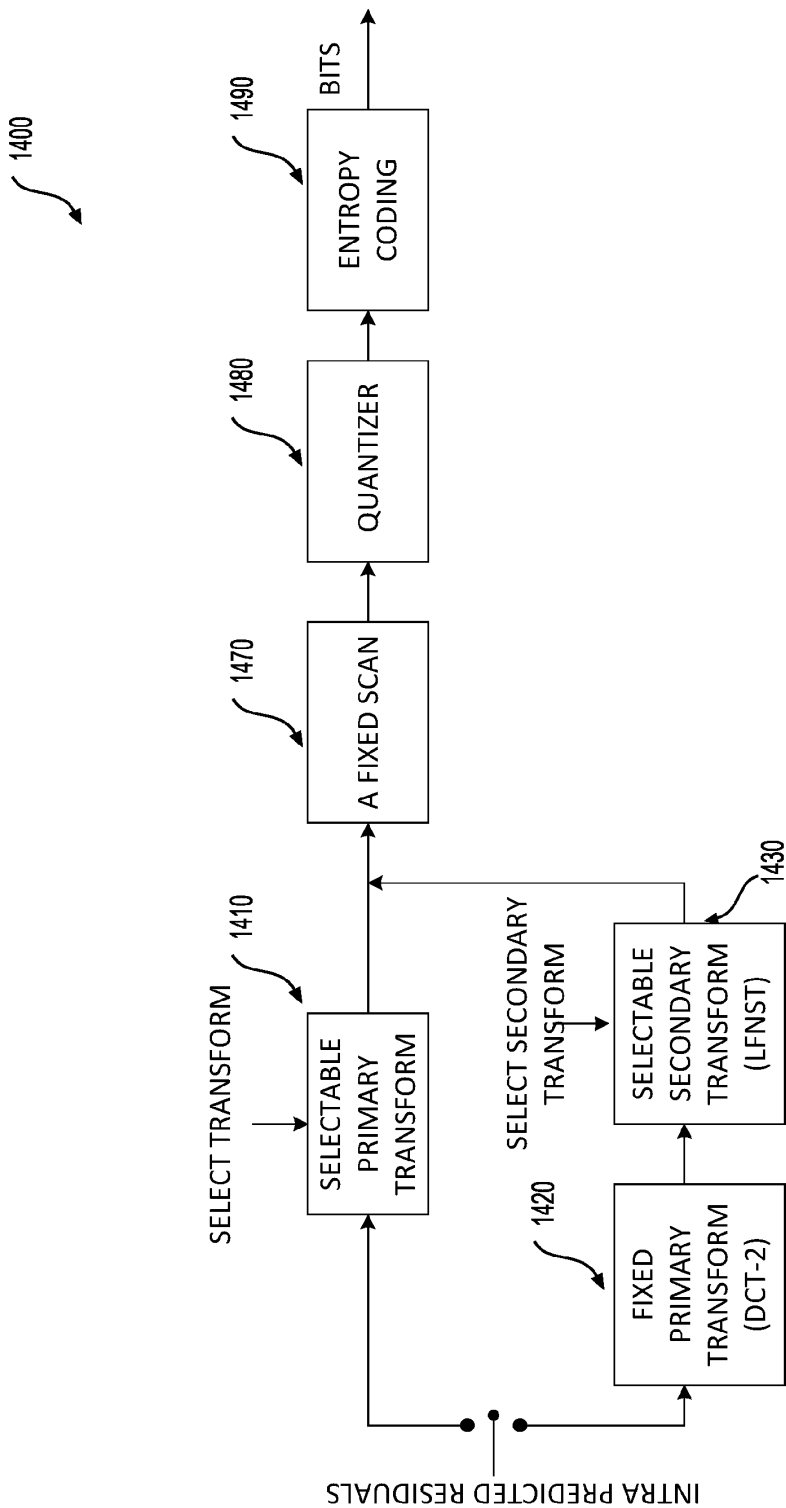


FIG. 14

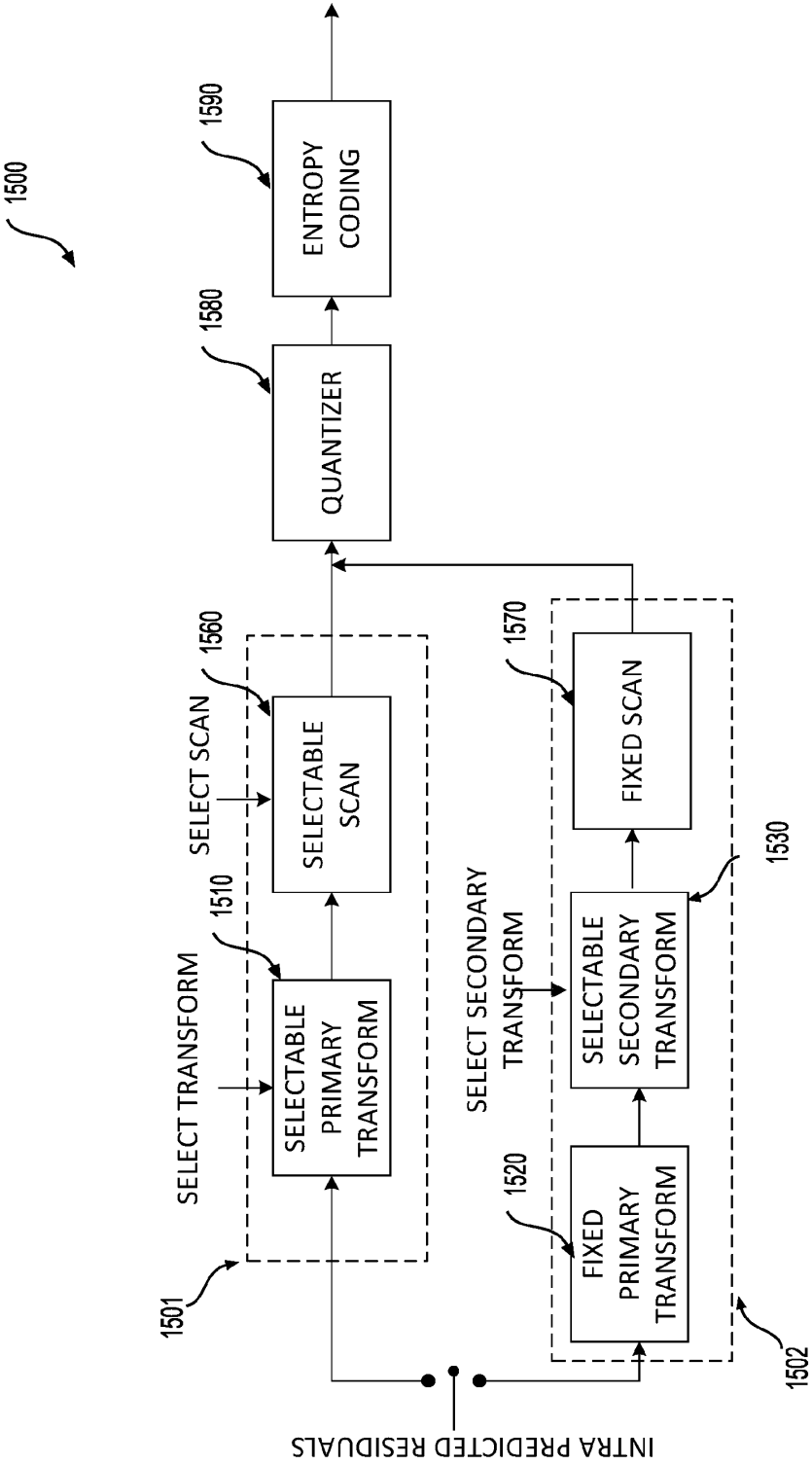


FIG. 15

1600

mts_idx	Transform Kernel		Scan Pattern
	Horizontal	Vertical	
0	DCT-2	DCT-2	Reverse Diagonal
1	DST-7	DST-7	Reverse Diagonal
2	DST-7	DST-7	Reverse Horizontal
3	DST-7	DST-7	Reverse Vertical

FIG. 16

1700

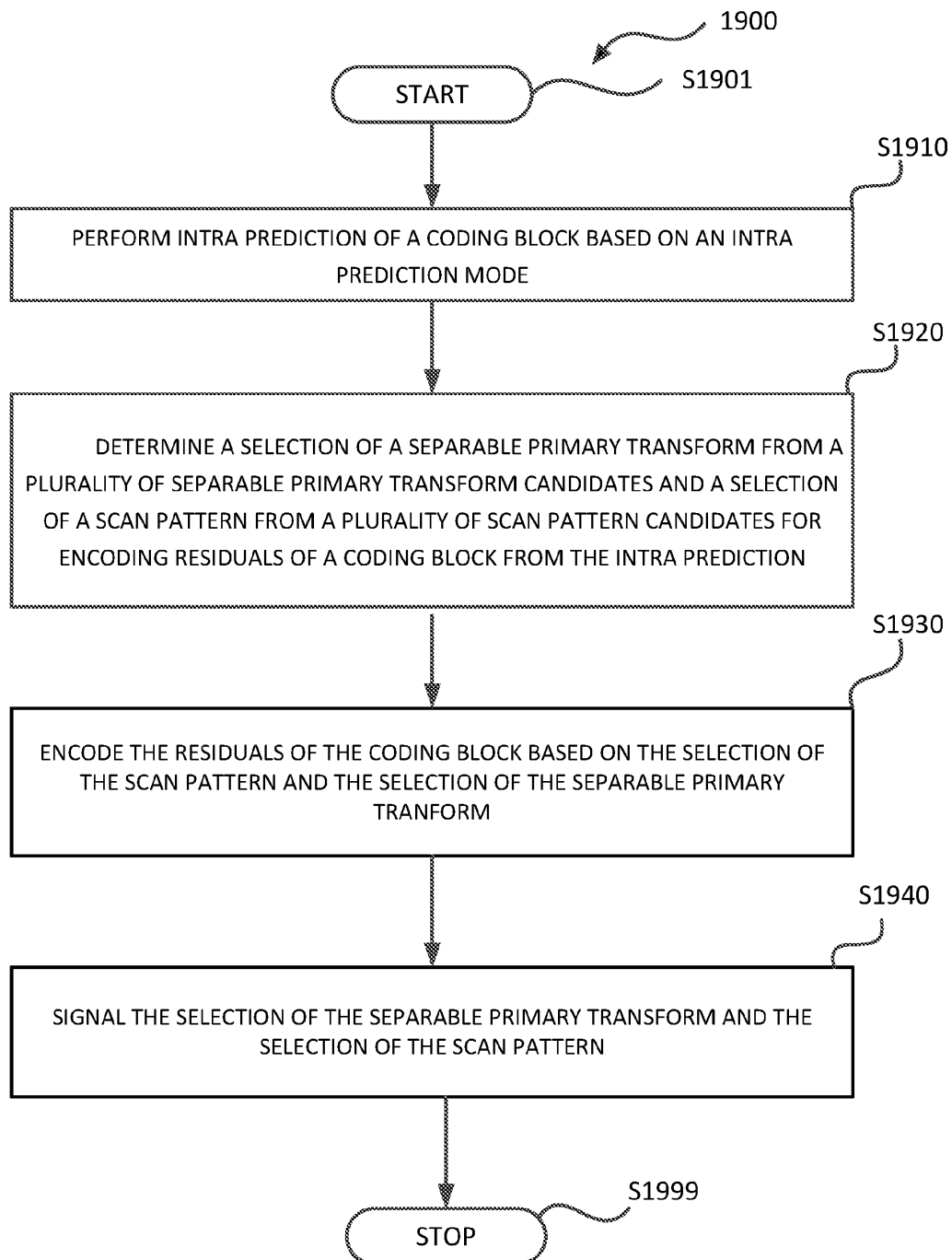
mts_idx	Transform Kernel		Scan Pattern
	Horizontal	Vertical	
0	DCT-2	DCT-2	Reverse Diagonal
1	DST-7	DST-7	Reverse Diagonal
2	DCT-2	DCT-2	Reverse Vertical
3	DST-7	DST-7	Reverse Vertical
4	DCT-2	DCT-2	Reverse Horizontal
5	DST-7	DST-7	Reverse Horizontal

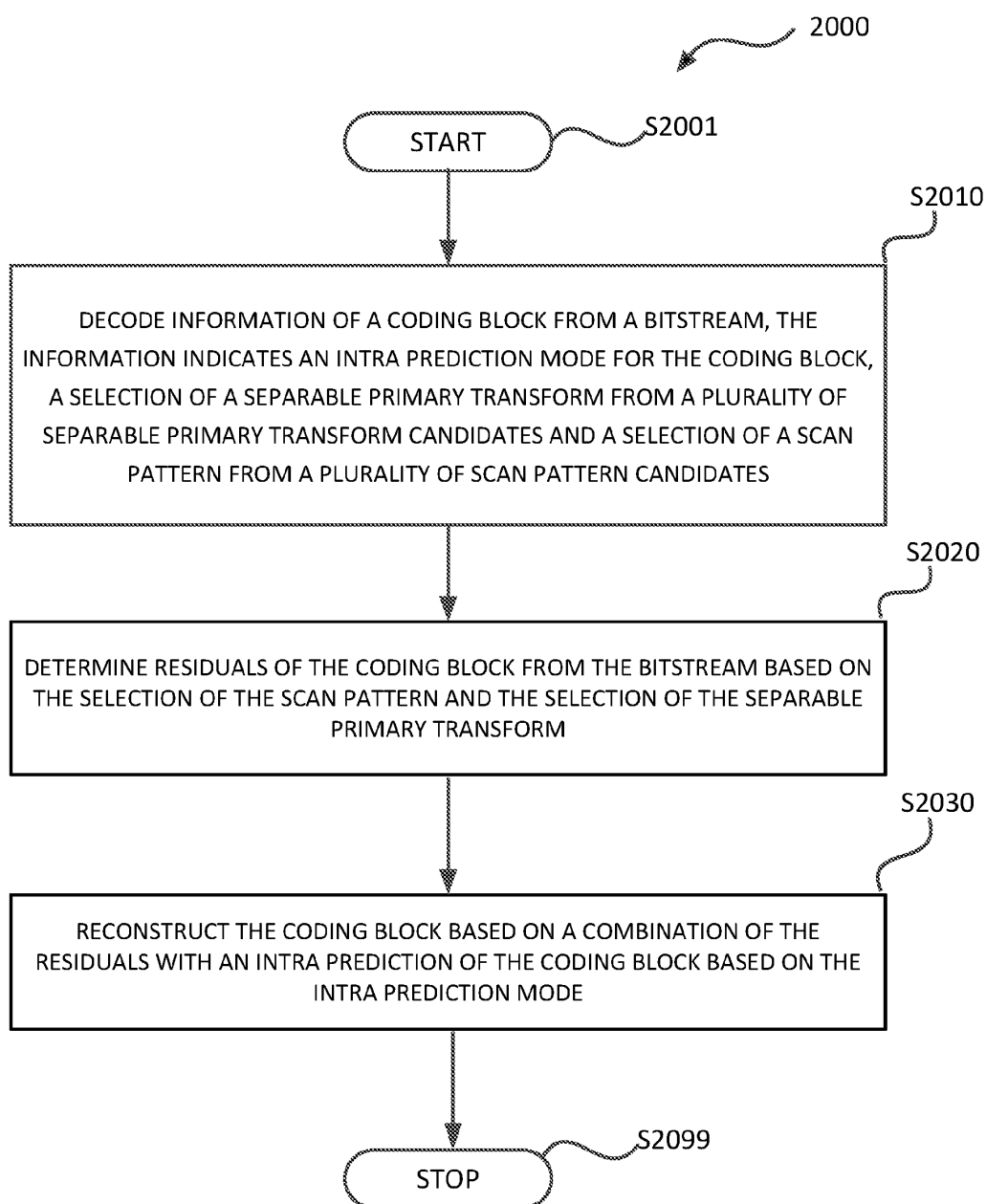
FIG. 17

1800

mts_idx	Transform Kernel		Scan Pattern
	Horizontal	Vertical	
0	DCT2	DCT2	Intra mode dependent
1	DST7	DST7	Intra mode dependent

FIG. 18

**FIG. 19**

**FIG. 20**

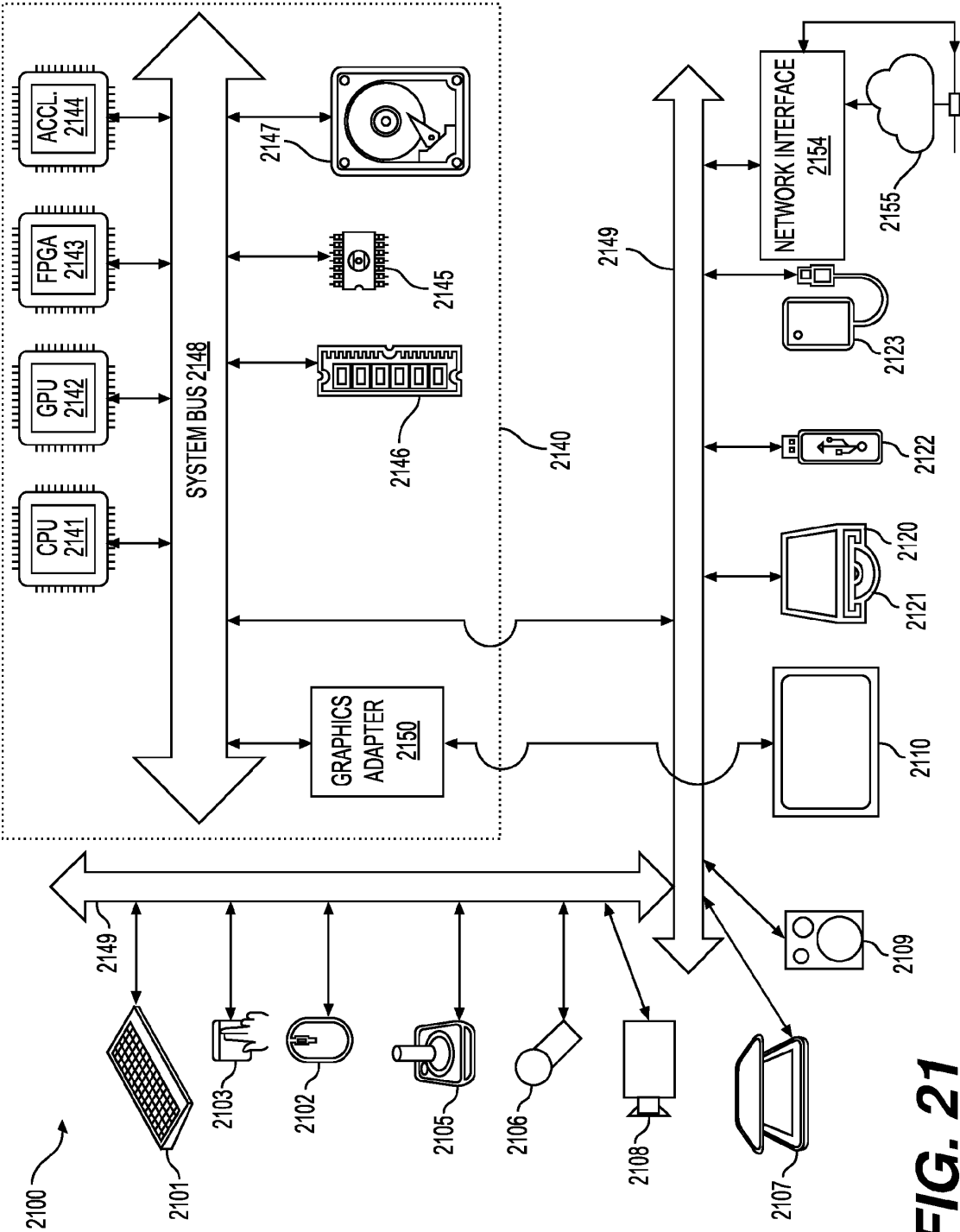


FIG. 21