

FIG. 1

METHOD 1	IN CASE WHERE PREDETERMINED CONDITION IS SATISFIED, PICTURE TYPE OF ALL PICTURES IS LIMITED TO I-PICTURE
METHOD 1-1	NAL UNIT TYPE OF ALL VCL NAL UNITS AS DECODING TARGET PICTURE IS LIMITED TO "VALUE INDICATING IRAP"
METHOD 1-2	IN CASE OF INTRA PROFILE, PICTURE TYPE OF ALL PICTURES IS LIMITED TO I-PICTURE
METHOD 1-3	IN CASE WHERE CONTROL FLAG IS TRUE, PICTURE TYPE OF ALL PICTURES IS LIMITED TO I-PICTURE

FIG. 2

In bitstreams conforming to the Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, the values of nal_unit_type of VCL NAL units for the current picture shall be in the range of IDR_W_RADL to CRA_NUT, inclusive.

FIG. 3

7.3.1.1 General NAL unit syntax

nal_unit(NumBytesInNALUnit) {	Descriptor
nal_unit_header ()	
NumBytesInRbsp = 0	
for (i = 2; i < NumBytesInNALUnit; i++)	
if (i + 2 < NumBytesInNALUnit && next_bits (24) == 0x0000003) {	
rbsp_byte[NumBytesInRbsp++]	b (8)
rbsp_byte[NumBytesInRbsp++]	b (8)
i += 2	
emulation_prevention_three_byte /* equal to 0x03 */	f (8)
} else	
rbsp_byte[NumBytesInRbsp++]	b (8)
}	

7.3.1.2 NAL unit header syntax

nal_unit_header () {	Descriptor
forbidden_zero_bit	f (1)
nuh_reserved_zero_bit	u (1)
nuh_layer_id	u (6)
nal_unit_type	u (5)
nuh_temporal_id_plus1	u (3)
}	

FIG. 4

A3.5 Format range extensions profiles

The following profiles, collectively referred to as the format range extensions profiles, are specified in this subclause:

- The Main 12, Main 12 4:4:4 and Main 16 4:4:4 profiles
- The Main 12 Intra, Main 12 4:4:4 Intra and Main 16 4:4:4 Intra profiles
- The Main 12 Still Picture, Main 12 4:4:4 Still Picture and Main 16 4:4:4 Still Picture profiles

Bitstreams conforming to the format range extensions profiles shall obey the following constraints:

- Referenced SPSs shall have `ptl_multilayer_enabled_flag` equal to 0.
- In bitstreams conforming to the Main 12 Still Picture, Main 12 4:4:4 Still Picture and Main 16 4:4:4 Still Picture profiles, the bitstream shall contain only one picture.
- In bitstreams conforming to the Main 12, Main 12 4:4:4, Main 16 4:4:4, Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, `general_level_idc` for all values of `i` in active SPSs shall not be equal to 255 (which indicates level 15.5).
- The tier and level constraints specified for the Main 12, Main 12 4:4:4, Main 16 4:4:4, Main 12 Intra, Main 12 4:4:4 Intra or Main 16 4:4:4 Intra profiles in subclause A.4, as applicable, shall be fulfilled.

- In bitstreams conforming to the Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, the values of `nal_unit_type` of VCL NAL units for the current picture shall be in the range of `IDR_W_RADL` to `CRA_NUT`, inclusive.

FIG. 5

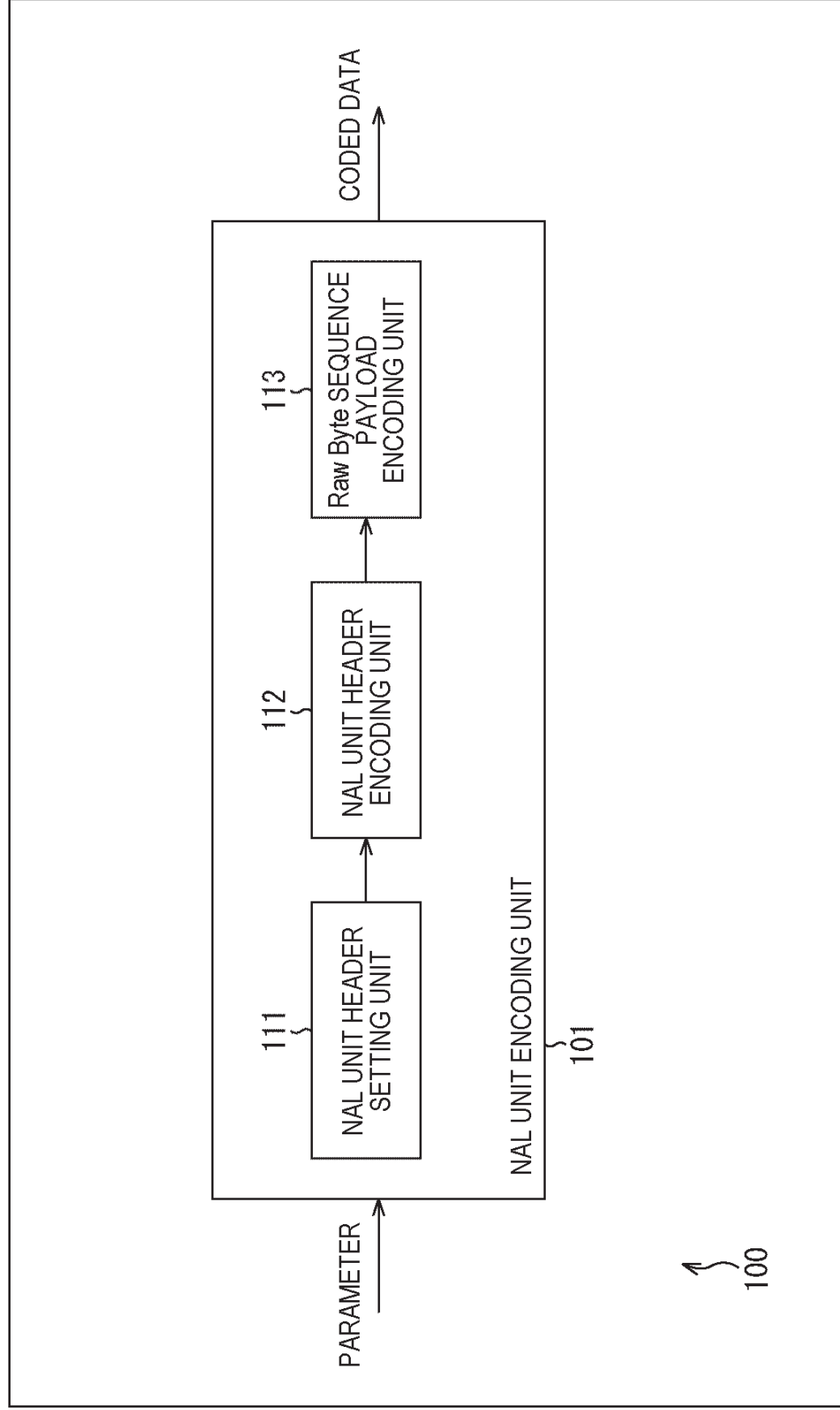


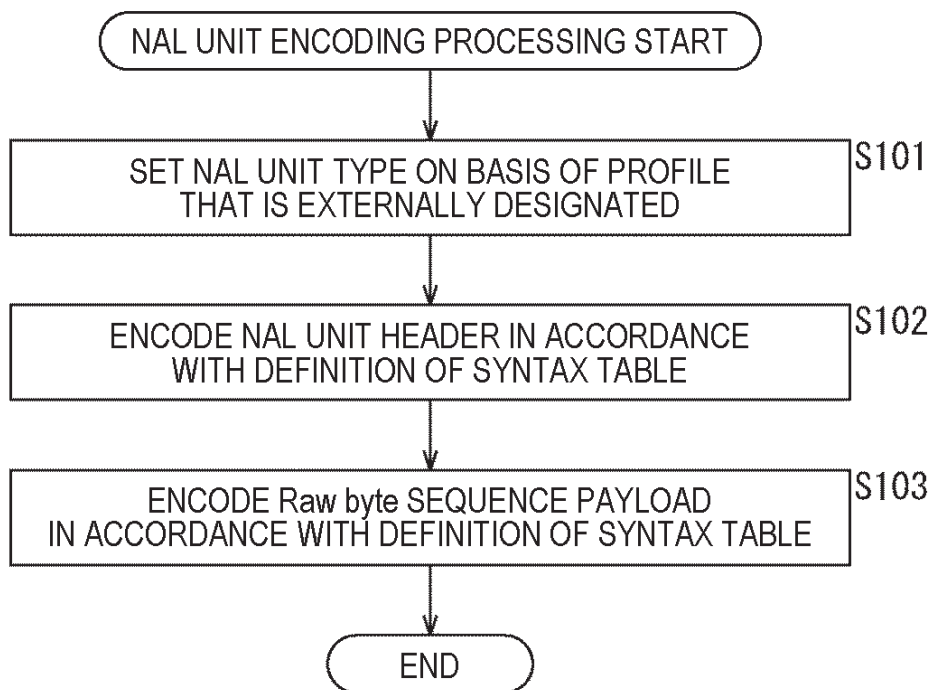
FIG. 6

FIG. 7

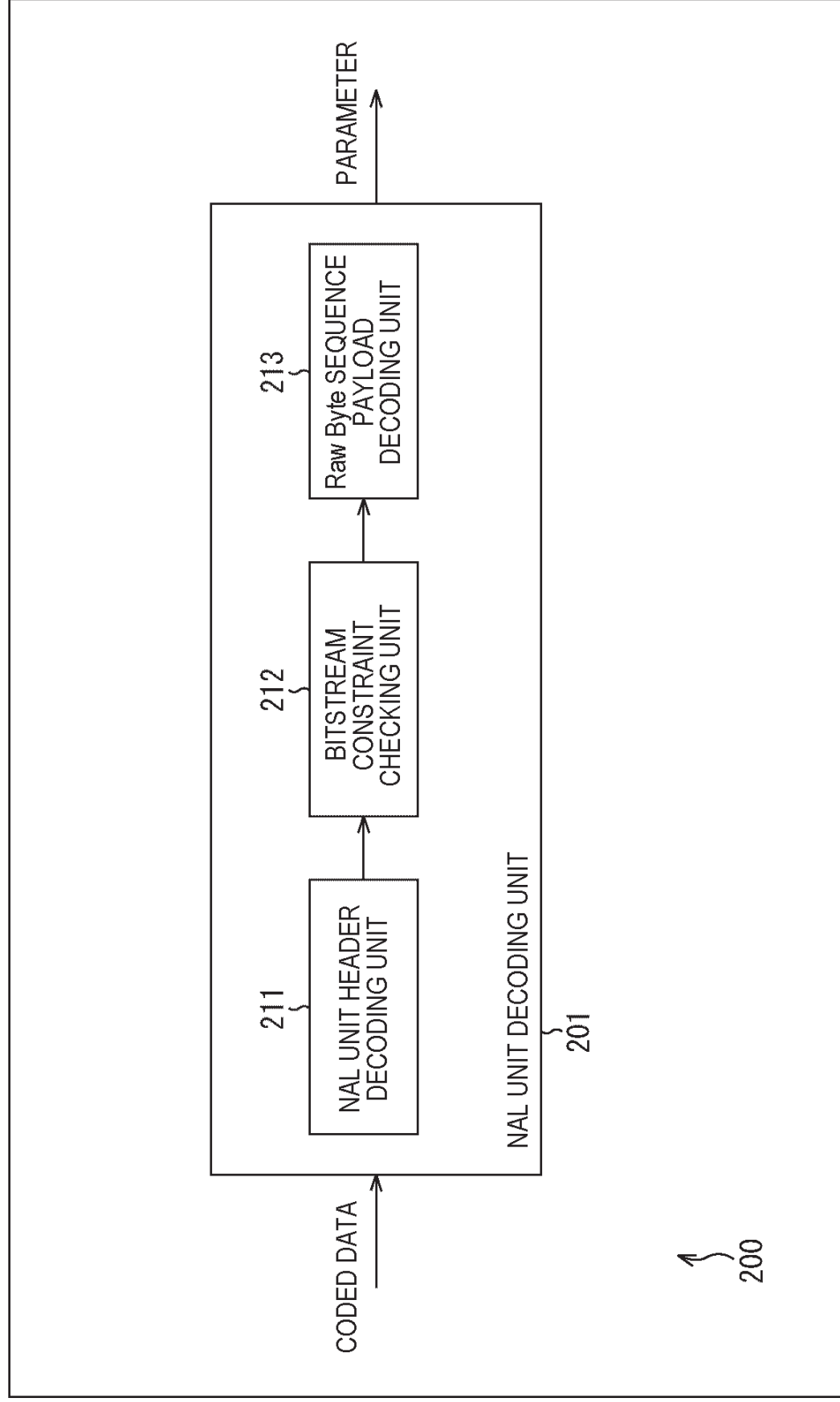


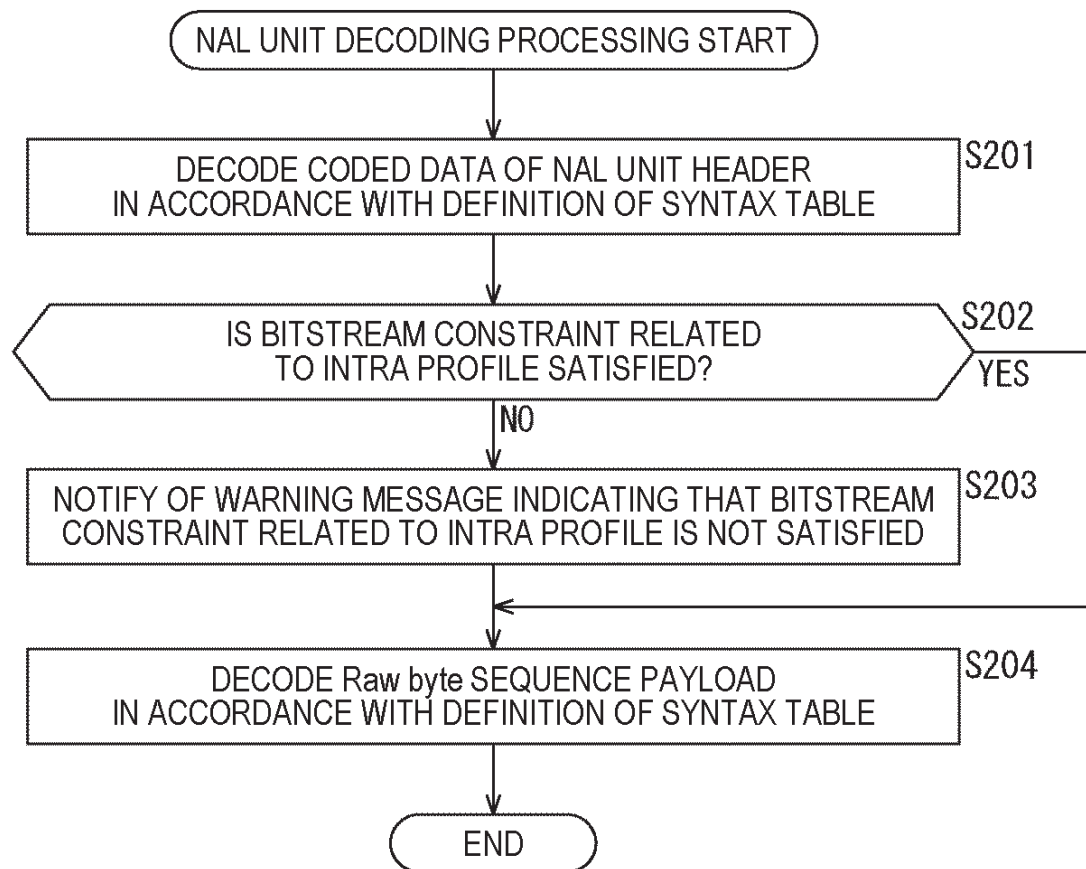
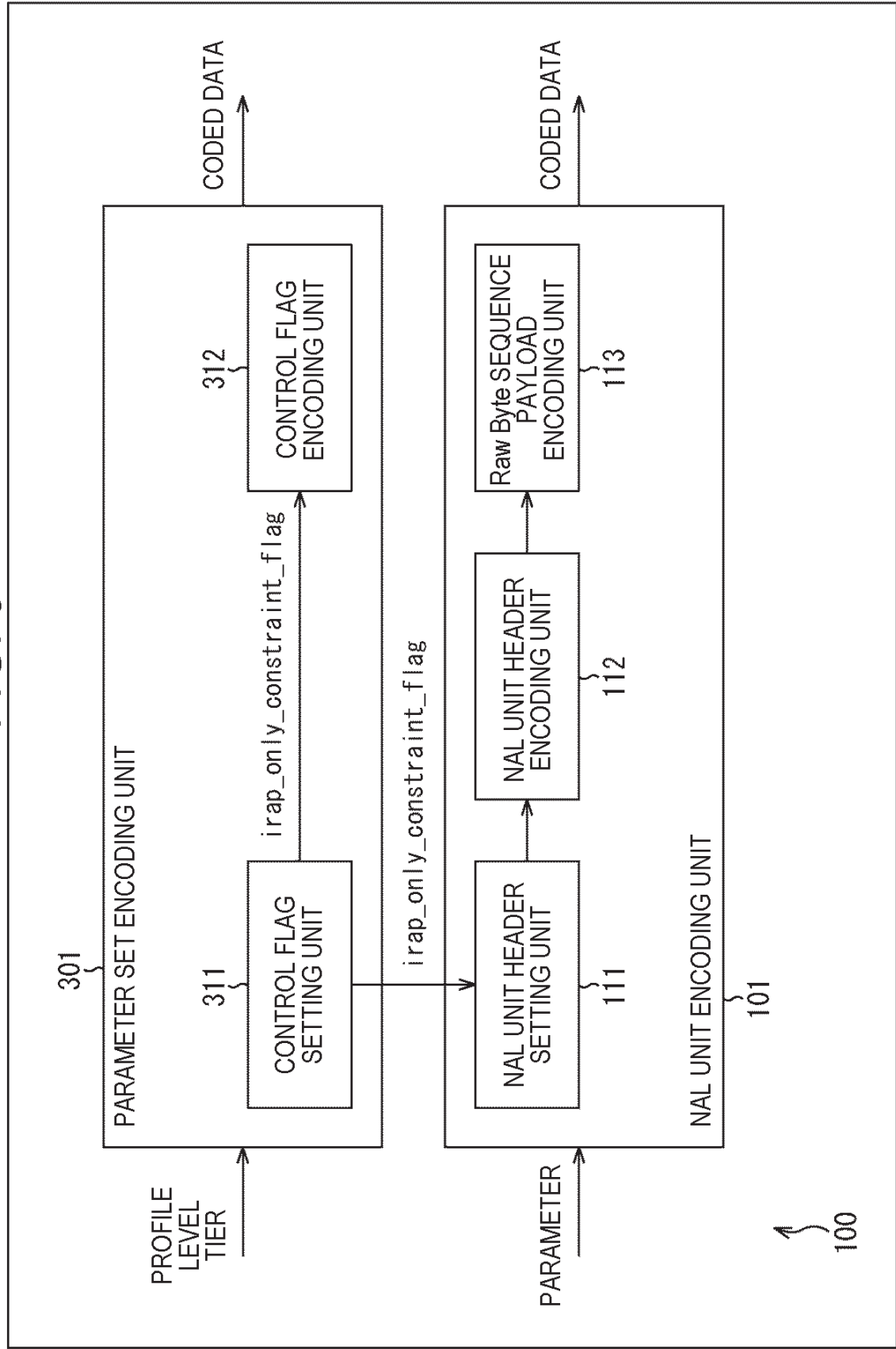
FIG. 8

FIG. 9



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FIG. 10

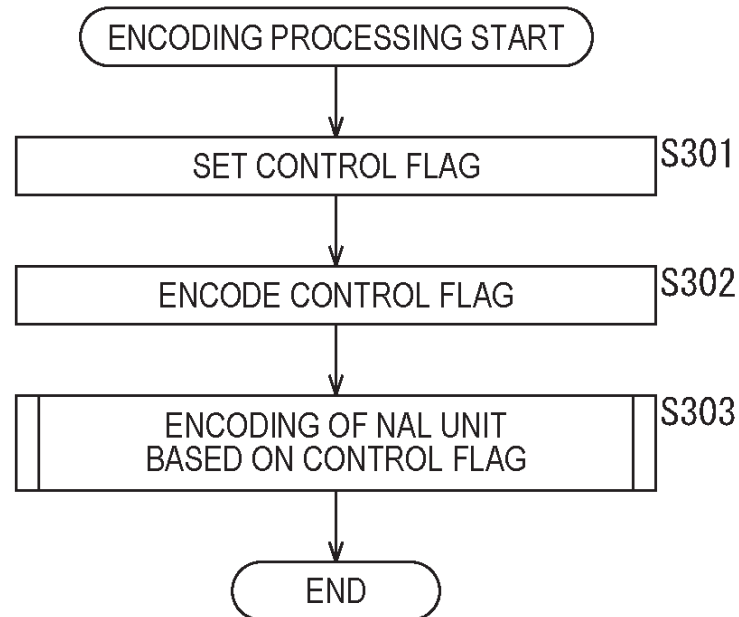


FIG. 11

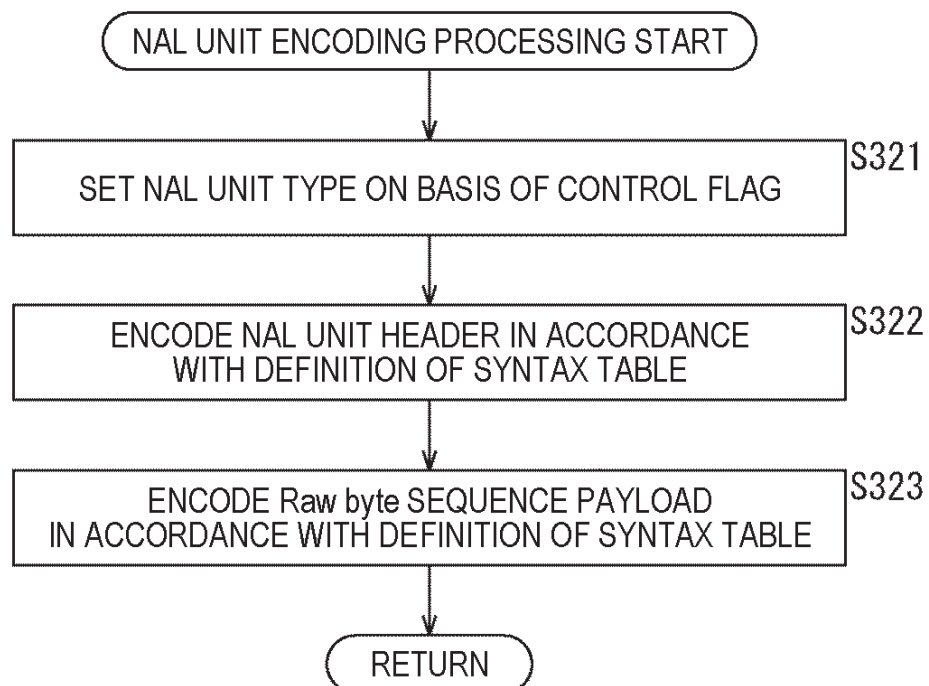


FIG. 12

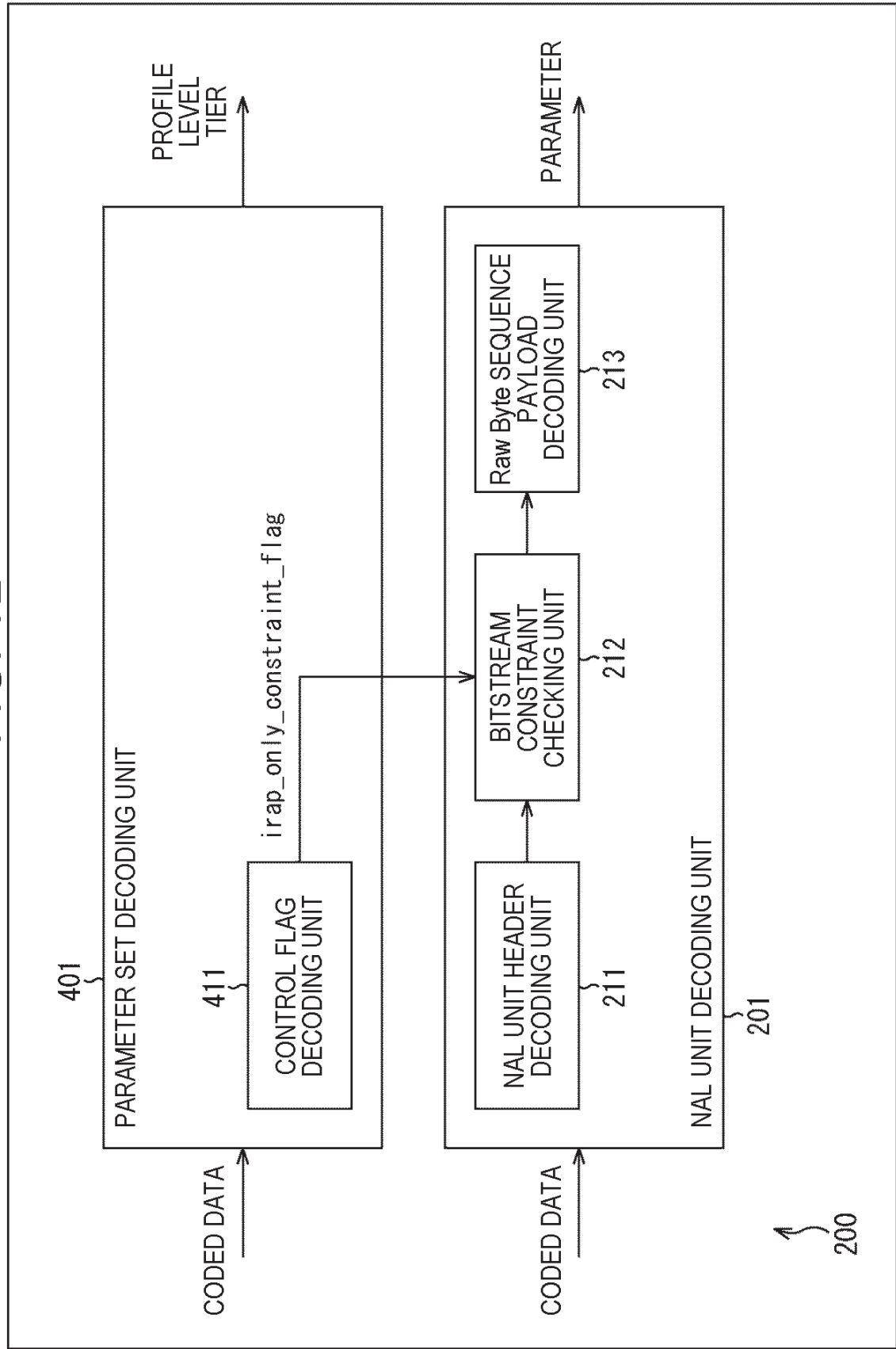


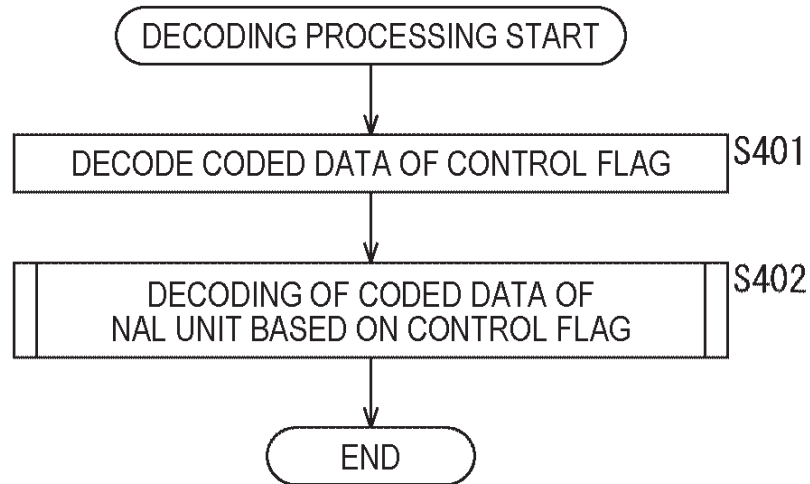
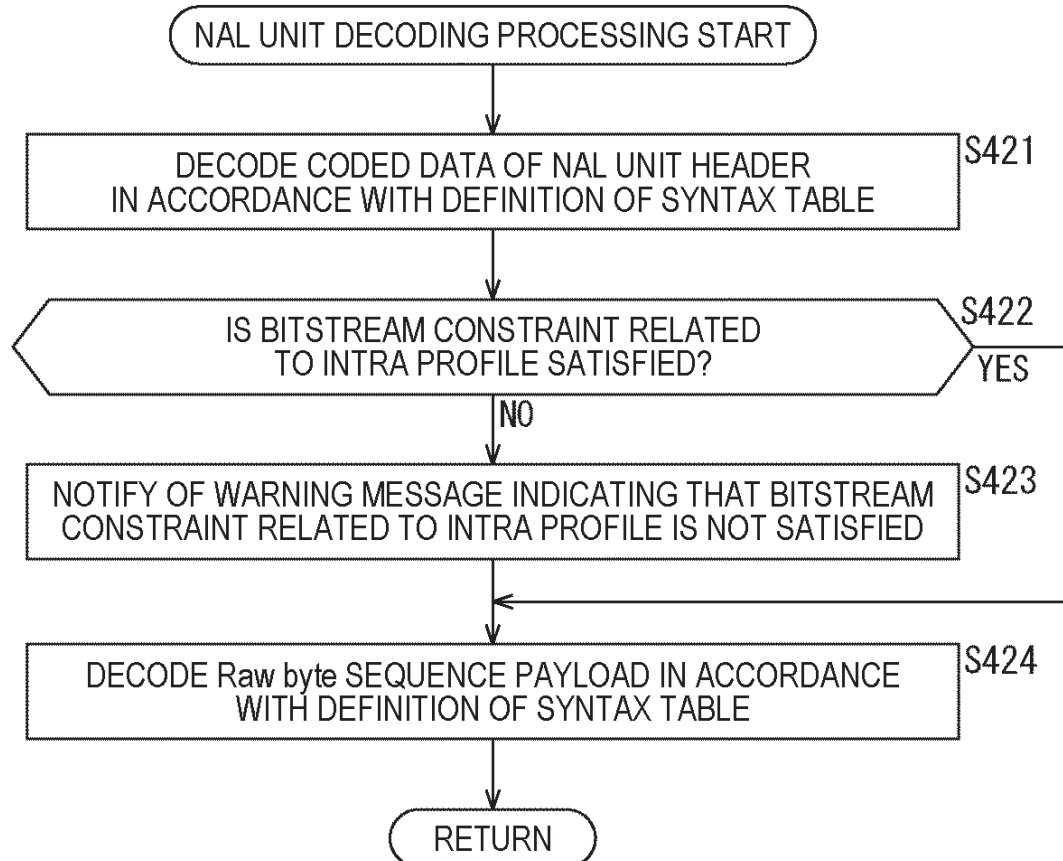
FIG. 13**FIG. 14**

FIG. 15

METHOD 2	IN CASE OF INTRA PROFILE, INTRA-only CONSTRAINT FLAG IS LIMITED TO TRUE	
METHOD 2-1	IN CASE WHERE PROFILE IS ANY OF Main 12 Intra profile, Main 12 4:4:4 Intra profile, OR Main 16 4:4:4 Intra profile, INTRA-only CONSTRAINT FLAG IS LIMITED TO TRUE	
METHOD 2-1-1	IN CASE WHERE PROFILE IDENTIFIER IS 10, 42 OR 44, INTRA-only CONSTRAINT FLAG IS LIMITED TO TRUE	
METHOD 2-2	ALSO IN CASE OF STILL PICTURE PROFILE, INTRA-only CONSTRAINT FLAG IS LIMITED TO TRUE	

FIG. 16

In bitstreams conforming to the Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, `gci_intra_only_constraint_flag` for all values of `i` in active SPSs shall be equal to 1.

FIG. 17

7.3.3.2 General constraints information syntax

	Descriptor
general_constraints_info() {	
...	
gci_intra_only_constraint_flag	u(1)
...	
gci_no_virtual_boundaries_constraint_flag	u(1)
gci_num_additional_bits	u(8)
if(gci_num_additional_bits > 0) {	
general_lower_bit_rate_constraint_flag	u(1)
numAdditionalBitsUsed = 1	
} else	
numAdditionalBitsUsed = 0	
for(i=0; i < gci_num_additional_bits - numAdditionalBitsUsed; i++)	
gci_reserved_zero_bit[i]	u(1)
}	
while(!byte_aligned())	
gci_alignment_zero_bit	f(1)
}	

[Semantic on gci_intra_only_constraint_flag]
gci_intra_only_constraint_flag equal to 1 specifies that sh_slice_type for all slices in OlstnScope shall be equal to 2. gci_intra_only_constraint_flag equal to 0 does not impose such a constraint.

FIG. 18

A3.5 Format range extensions profiles

The following profiles, collectively referred to as the format range extensions profiles, are specified in this subclause:

- The Main 12, Main 12 4:4:4 and Main 16 4:4:4 profiles
- The Main 12 Intra, Main 12 4:4:4 Intra and Main 16 4:4:4 Intra profiles
- The Main 12 Still Picture, Main 12 4:4:4 Still Picture and Main 16 4:4:4 Still Picture profiles

Bitstreams conforming to the format range extensions profiles shall obey the following constraints:

- Referenced SPSs shall have `ptl_multilayer_enabled_flag` equal to 0.
- In bitstreams conforming to the Main 12 Still Picture, Main 12 4:4:4 Still Picture and Main 16 4:4:4 Still Picture profiles, the bitstream shall contain only one picture.
- In bitstreams conforming to the Main 12, Main 12 4:4:4, Main 16 4:4:4, Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, `general_level_idc` for all values of `i` in active SPSs shall not be equal to 255 (which indicates level 15.5).
- The tier and level constraints specified for the Main 12, Main 12 4:4:4, Main 16 4:4:4, Main 12 Intra, Main 12 4:4:4 Intra or Main 16 4:4:4 Intra profiles in subclause A.4, as applicable, shall be fulfilled.

- In bitstreams conforming to the Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, `gci_intra_only_constraint_flag` for all values of `i` in active SPSs shall be equal to 1.

Or

- In bitstreams conforming to the Main 12 Intra, Main 12 4:4:4 Intra, or Main 16 4:4:4 Intra profiles, `sh_slice_type` for all slices in `OlInScope` shall be equal to 2.

FIG. 19

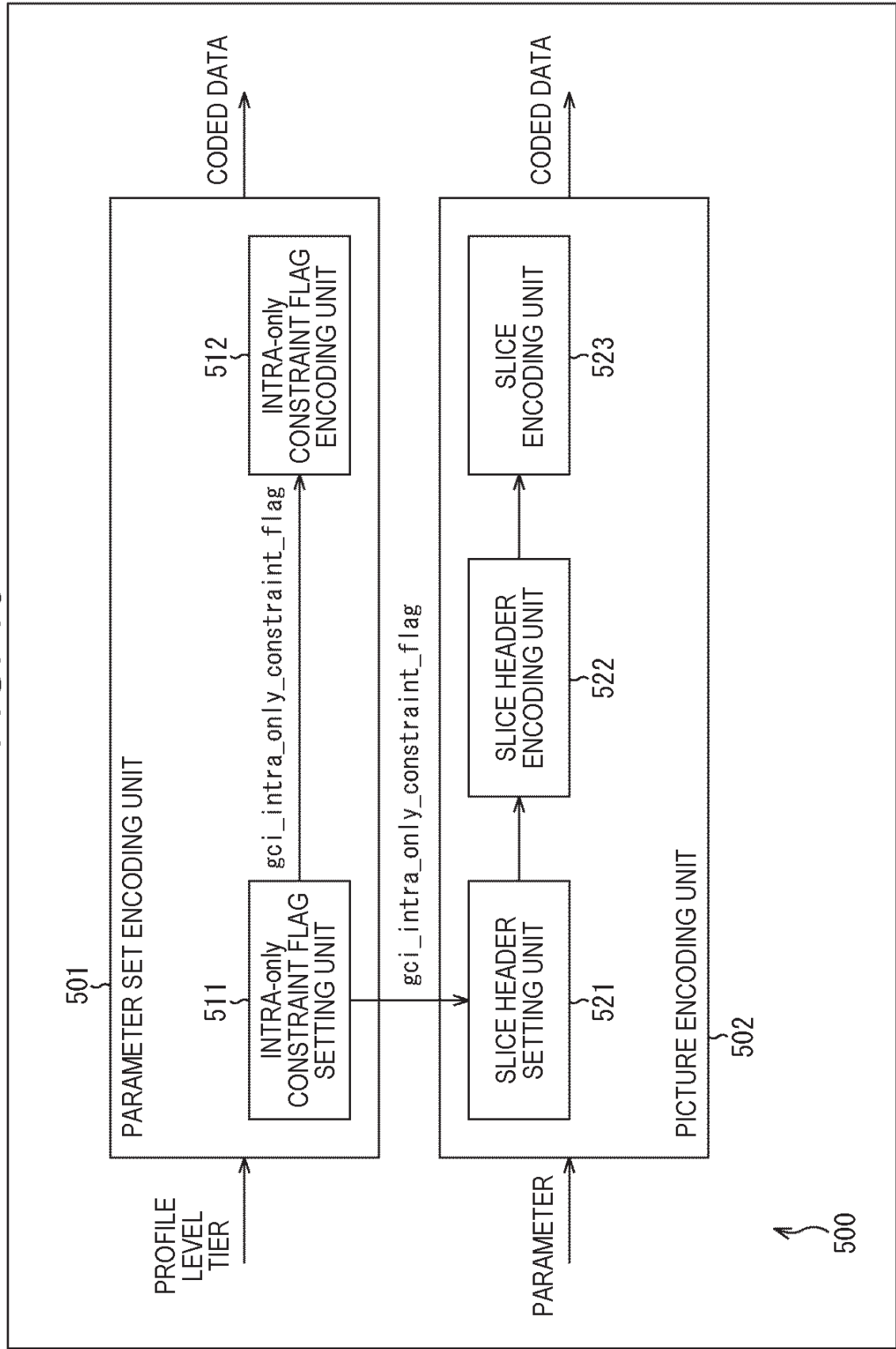


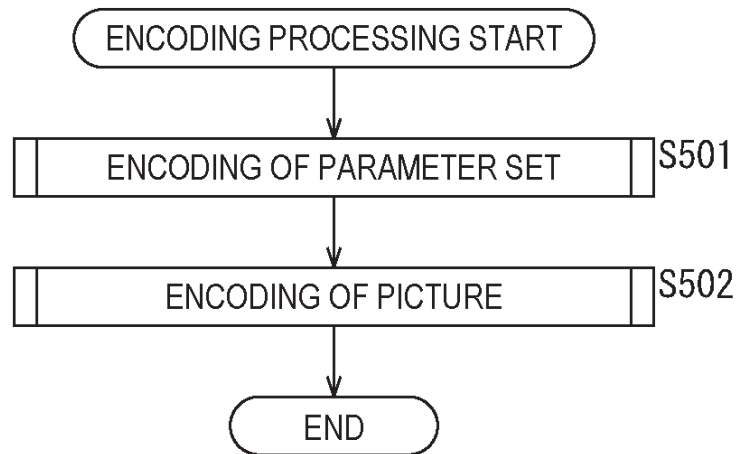
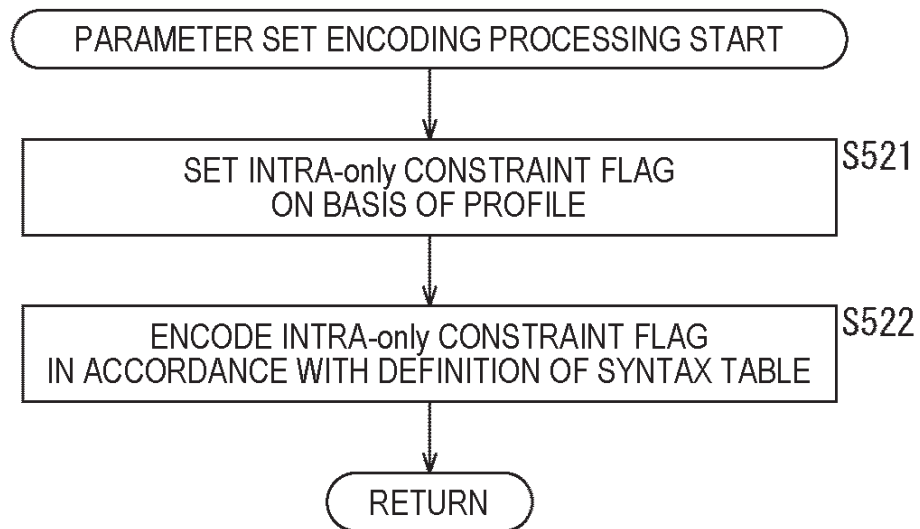
FIG. 20**FIG. 21**

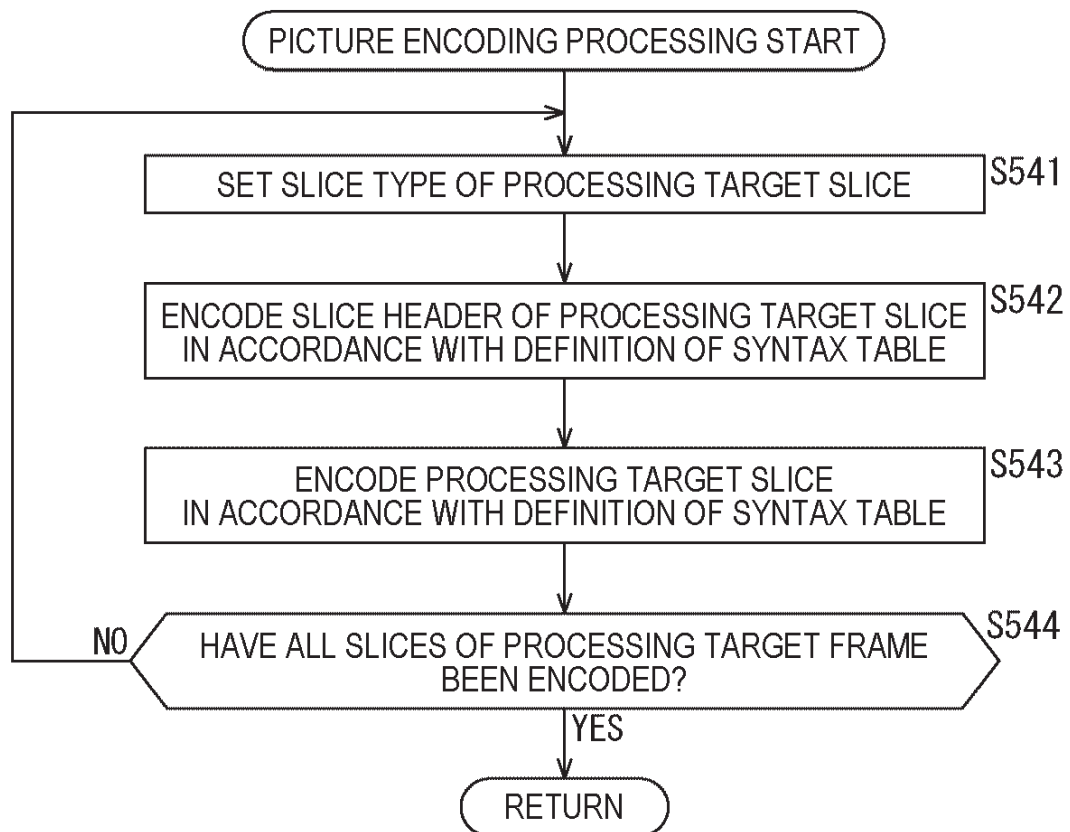
FIG. 22

FIG. 23

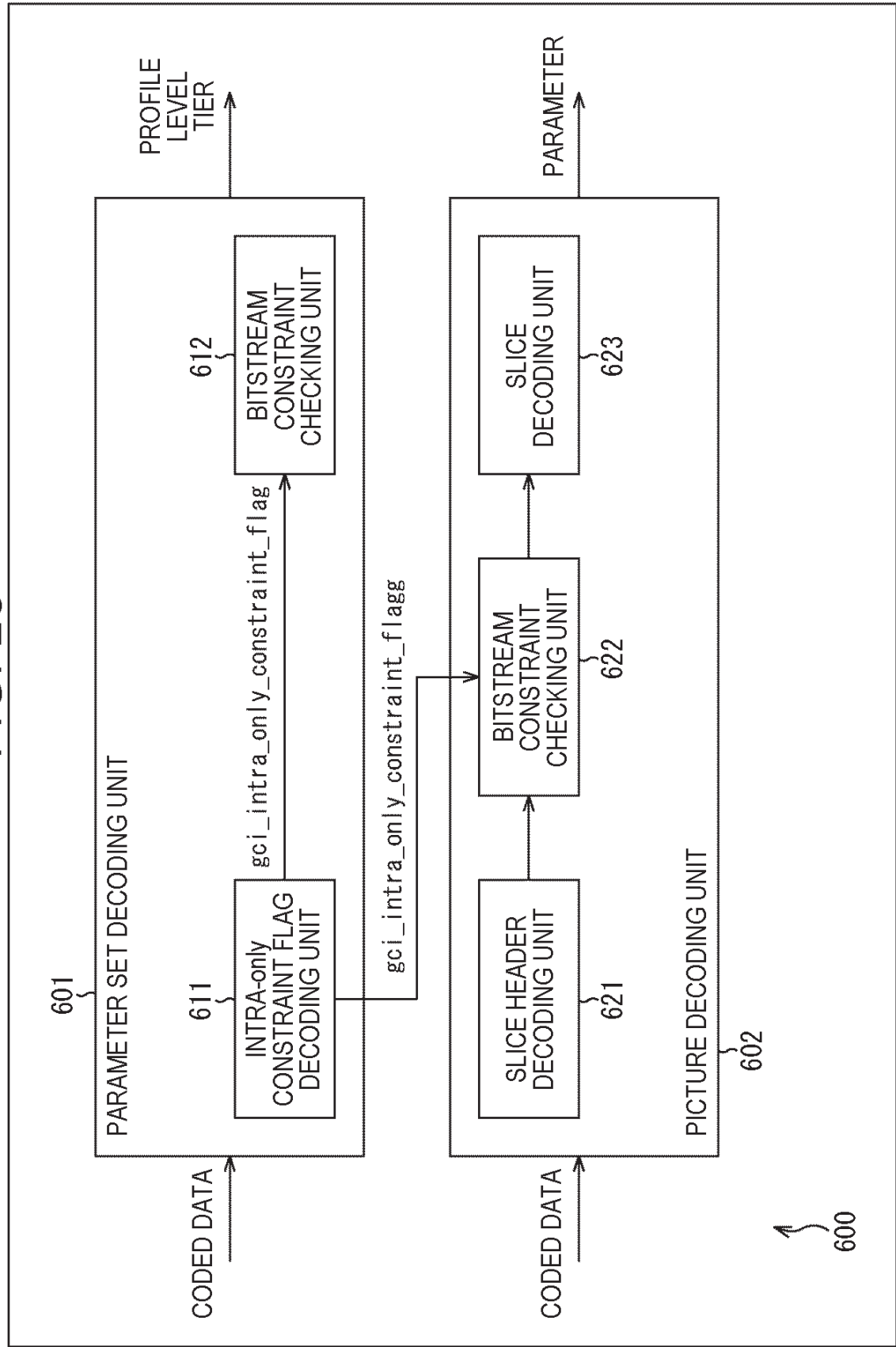


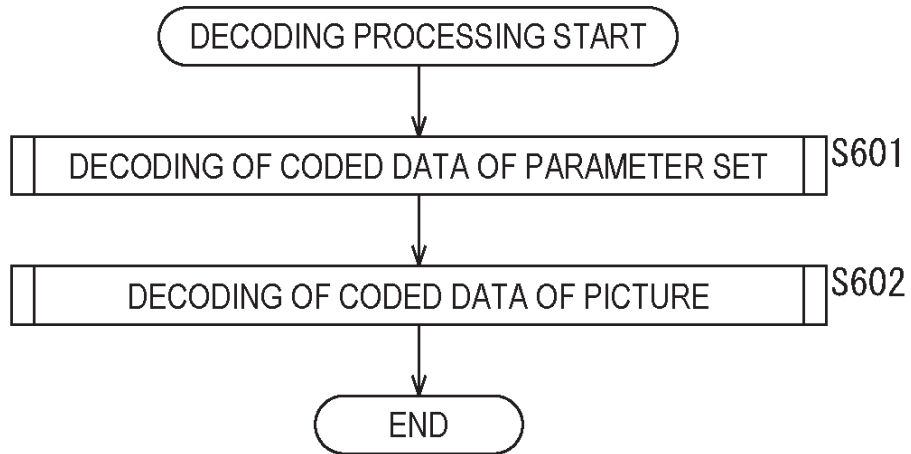
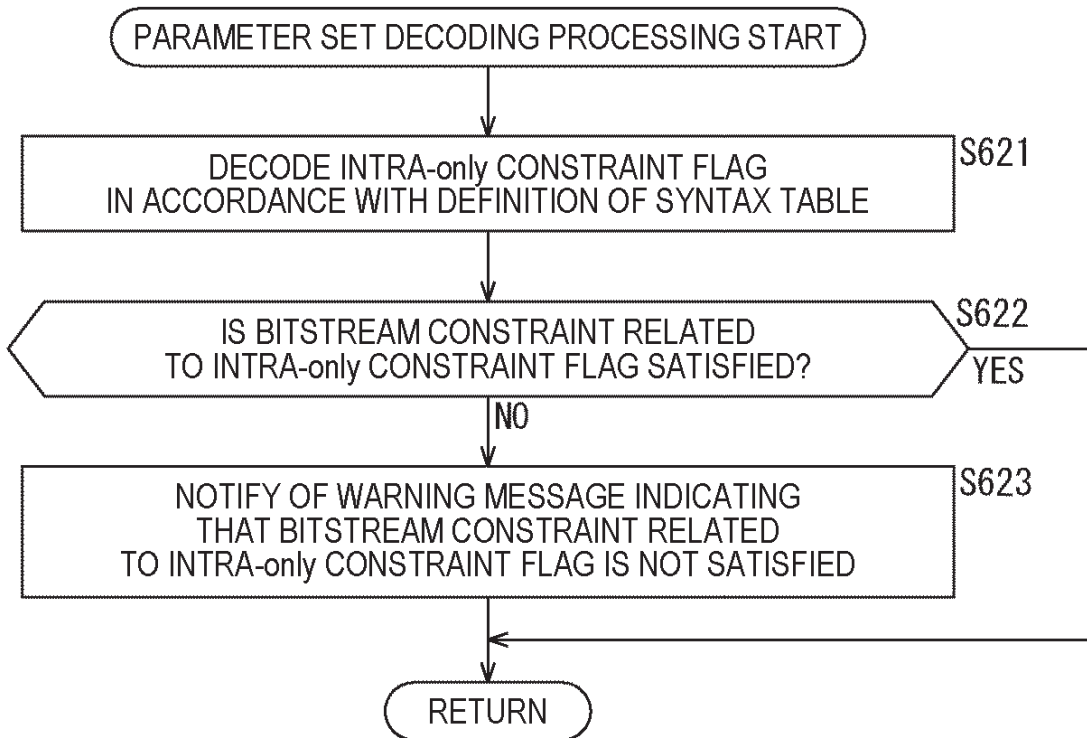
FIG. 24**FIG. 25**

FIG. 26

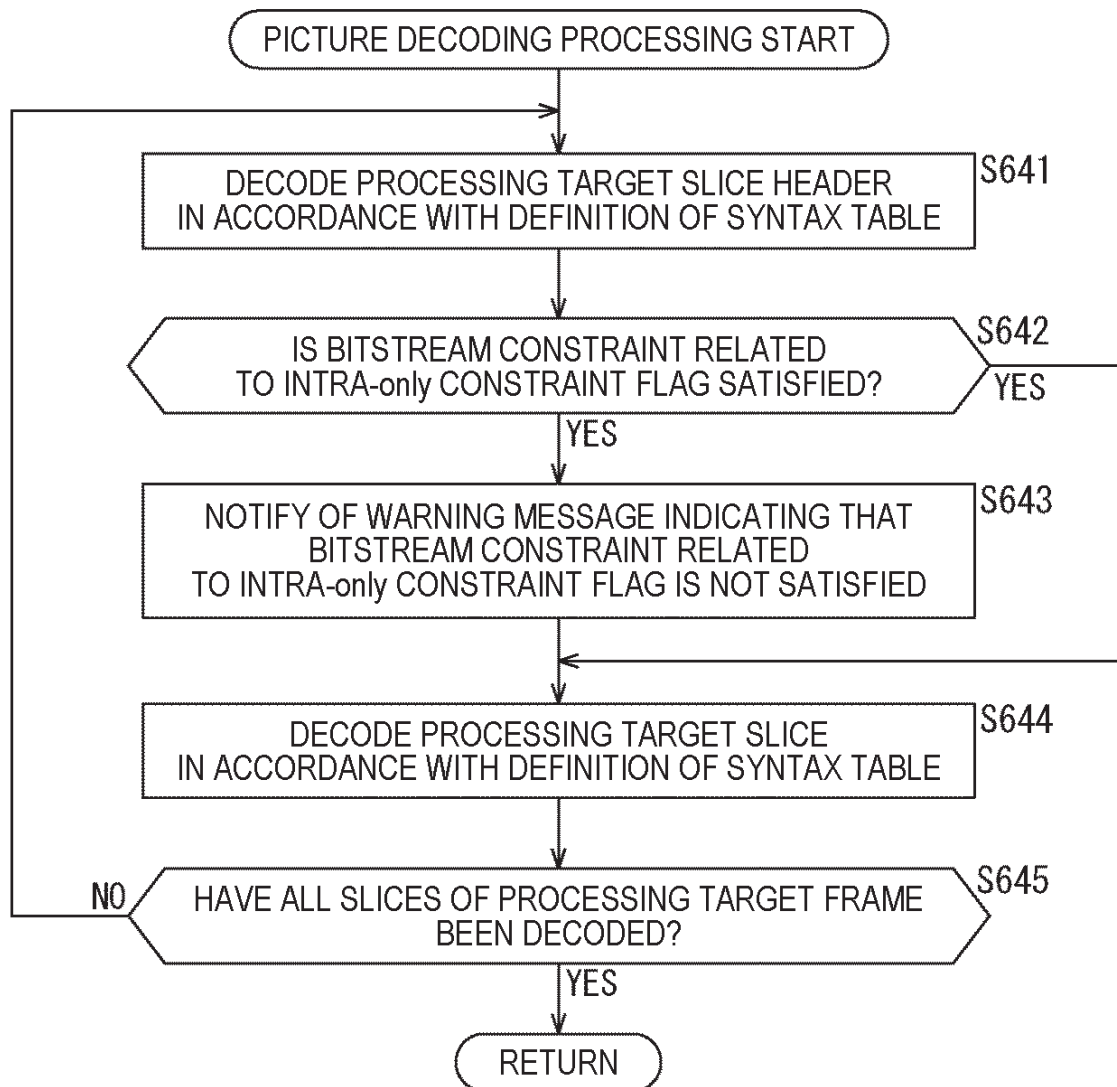


FIG. 27

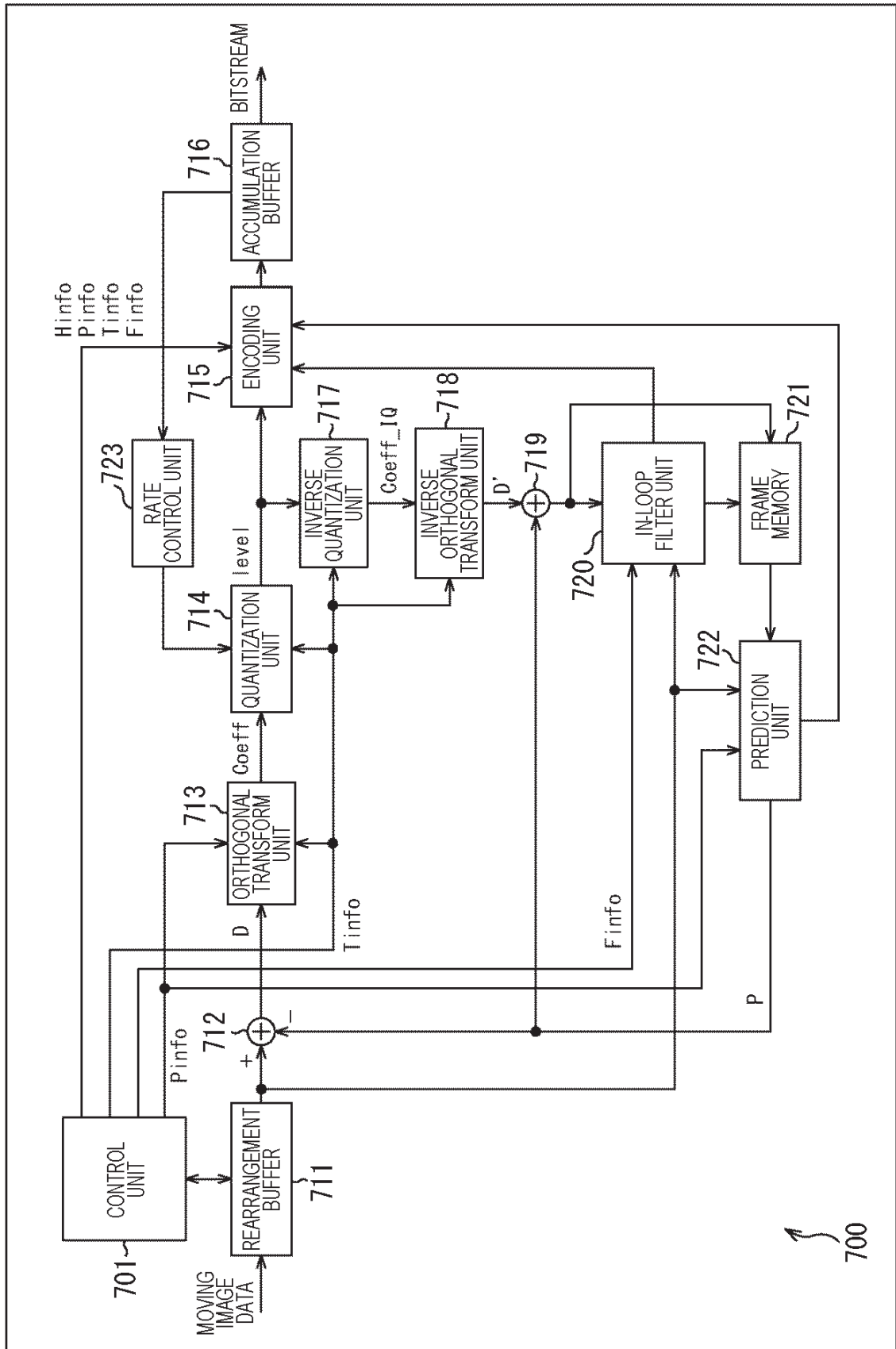


FIG. 28

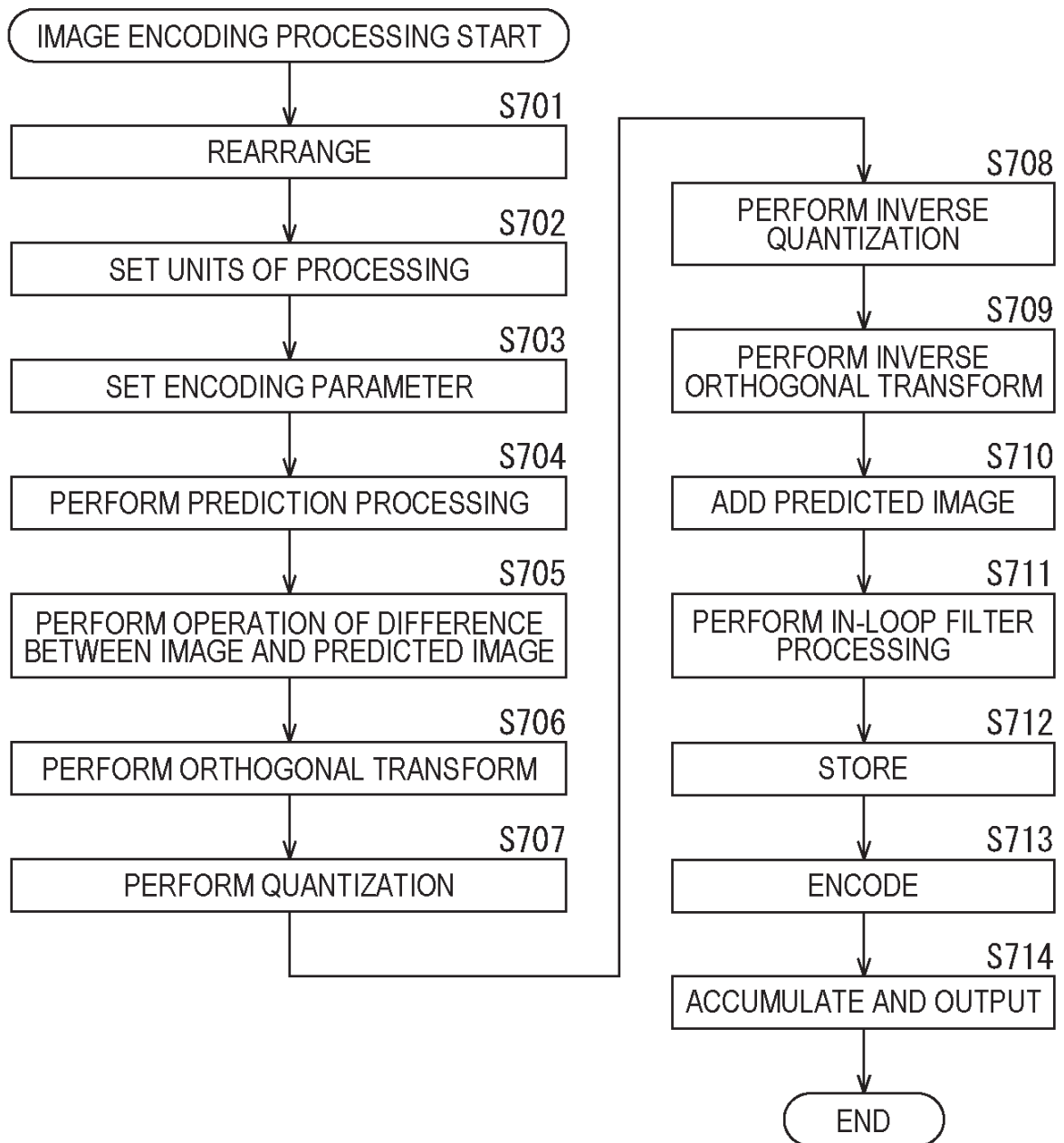


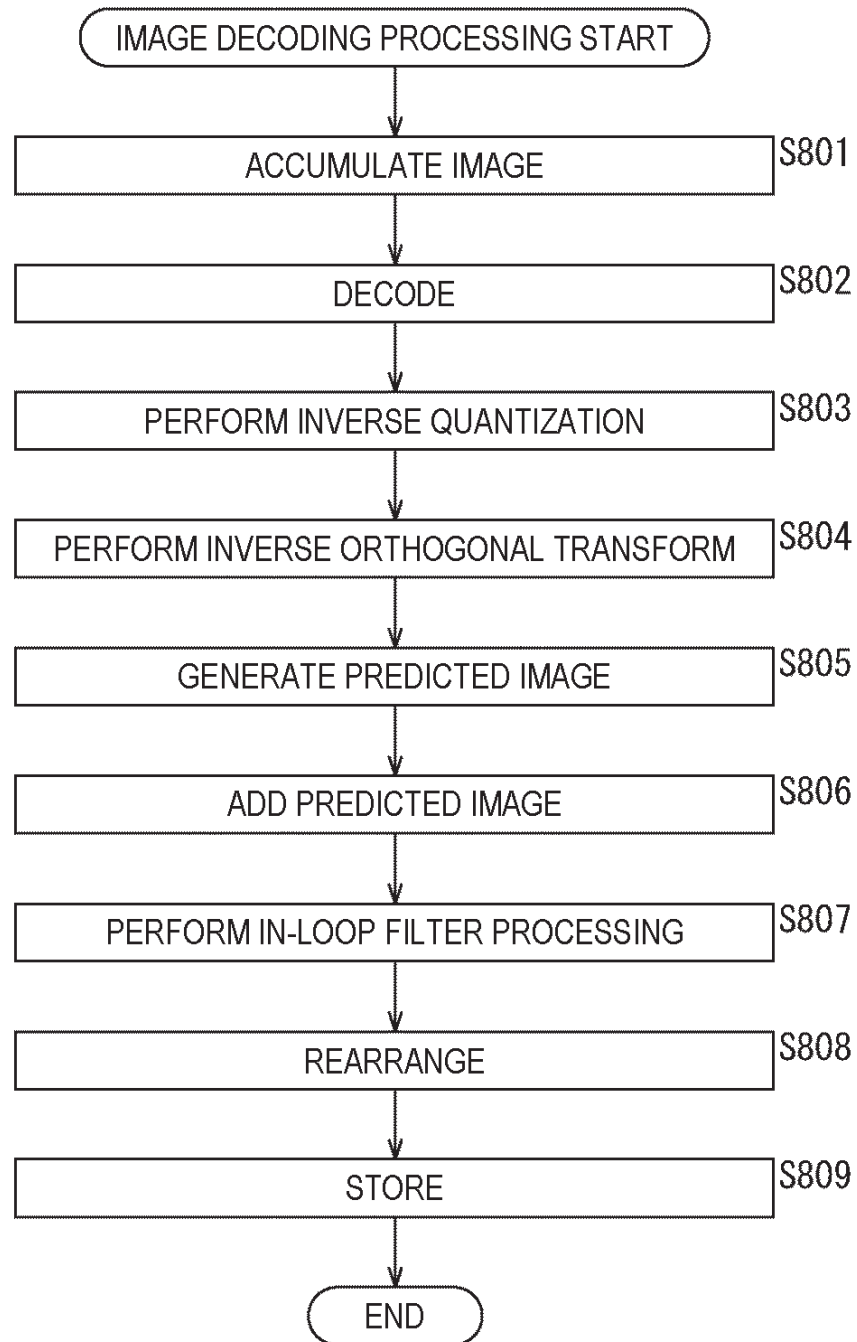
FIG. 30

FIG. 31

