

FIG. 1

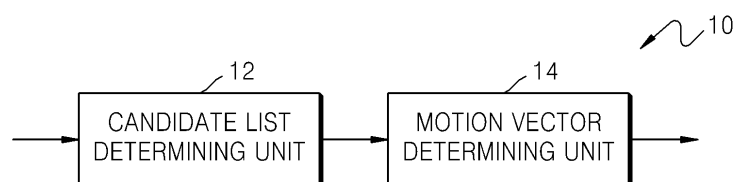


FIG. 2

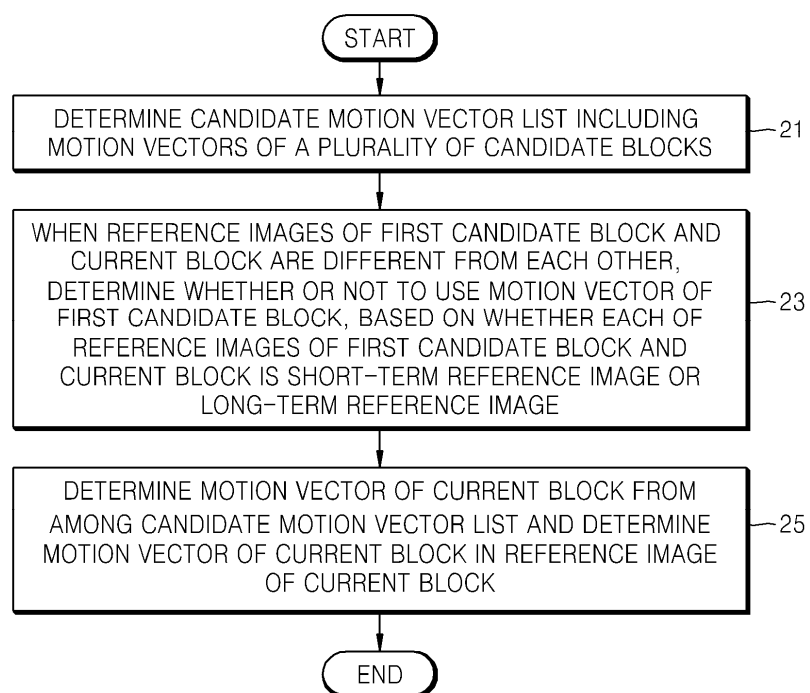


FIG. 3

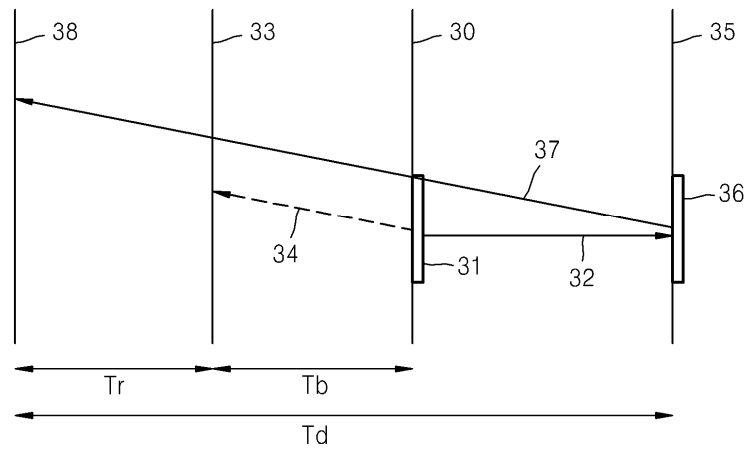


FIG. 4

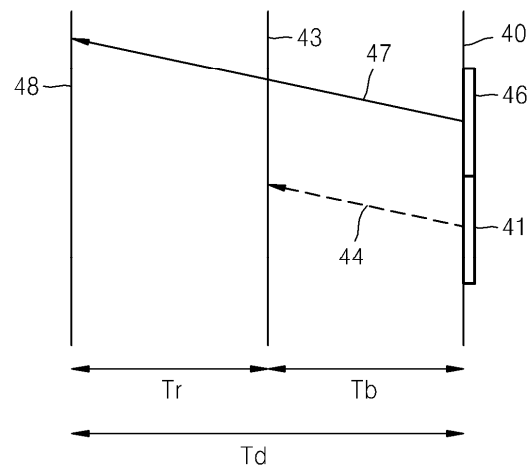


FIG. 5

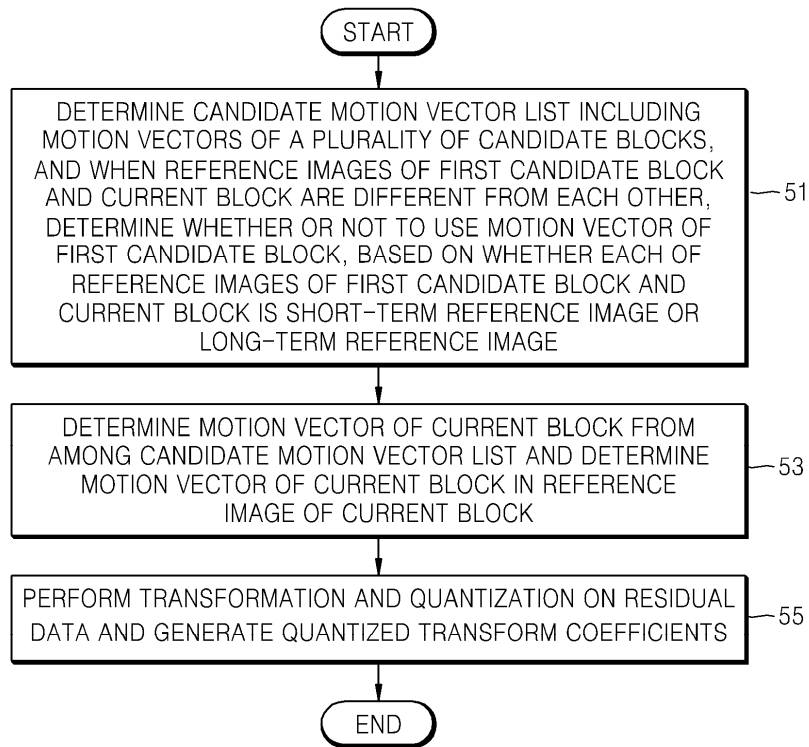


FIG. 6

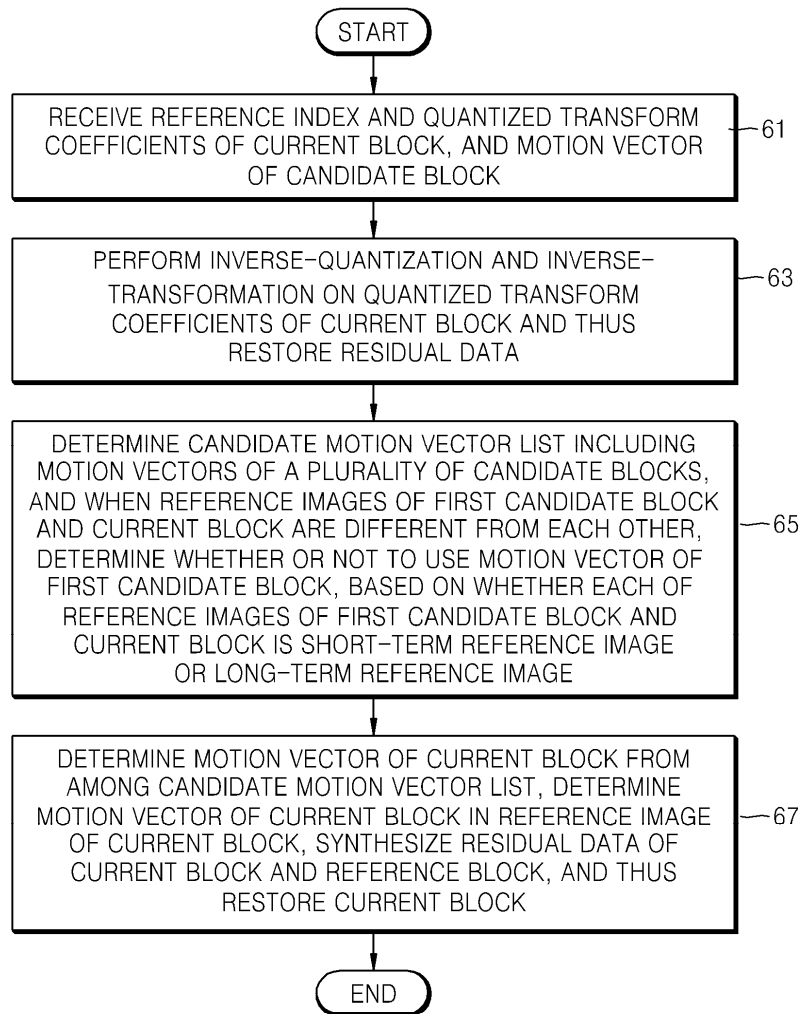


FIG. 7

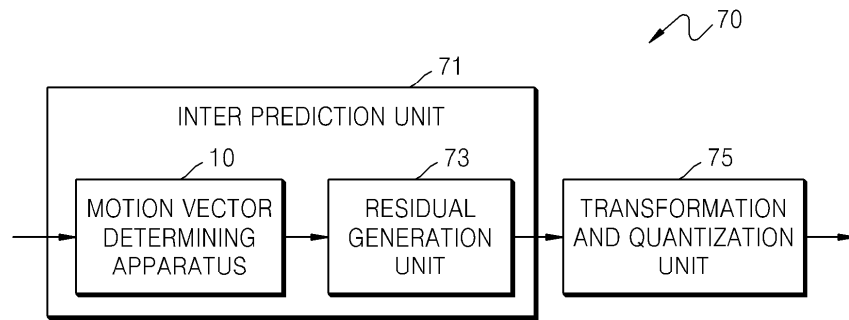


FIG. 8

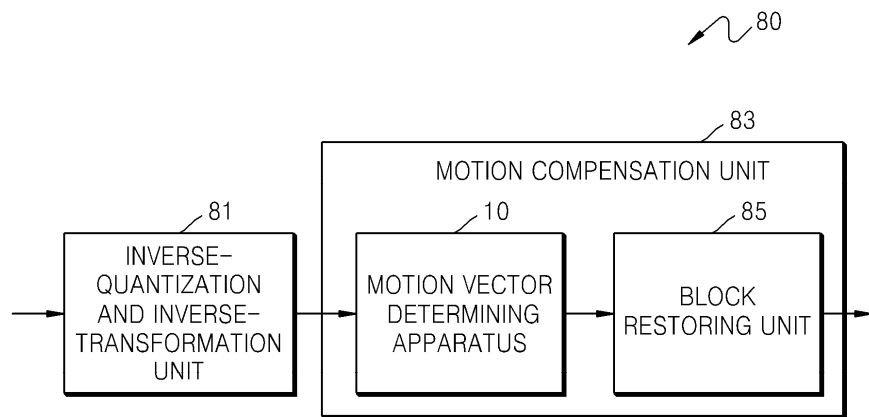


FIG. 9

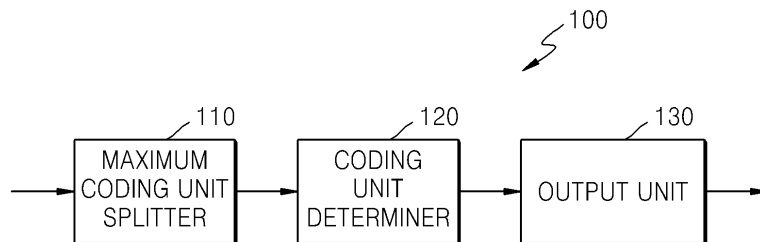


FIG. 10

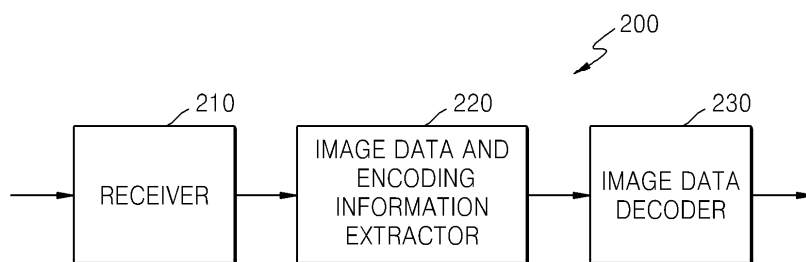


FIG. 11

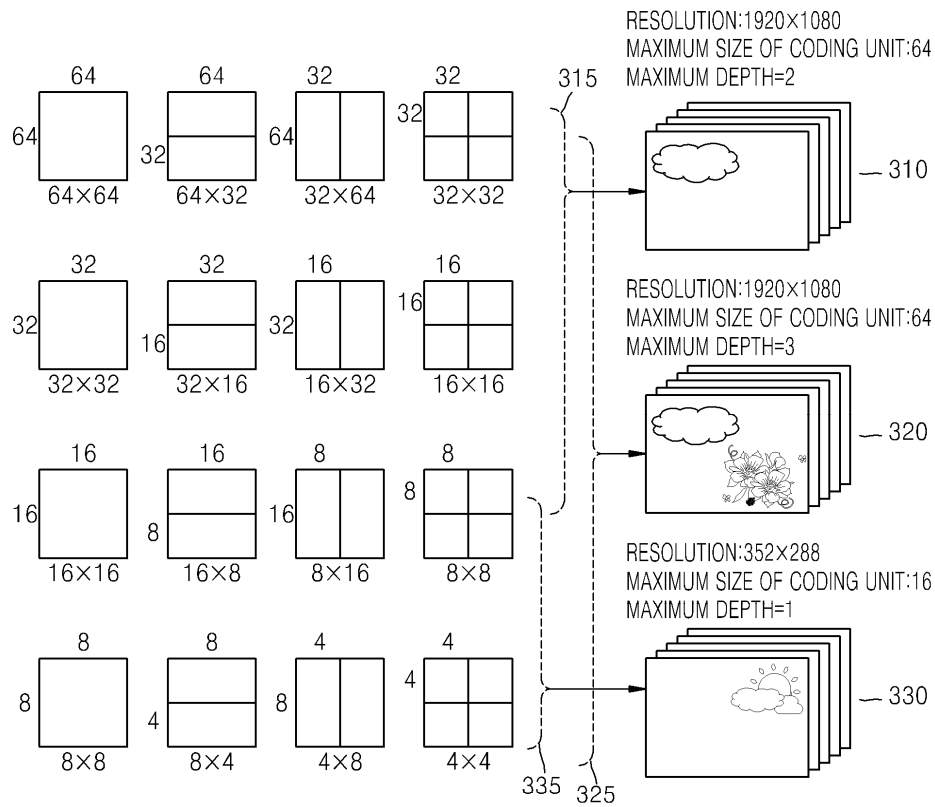


FIG. 12

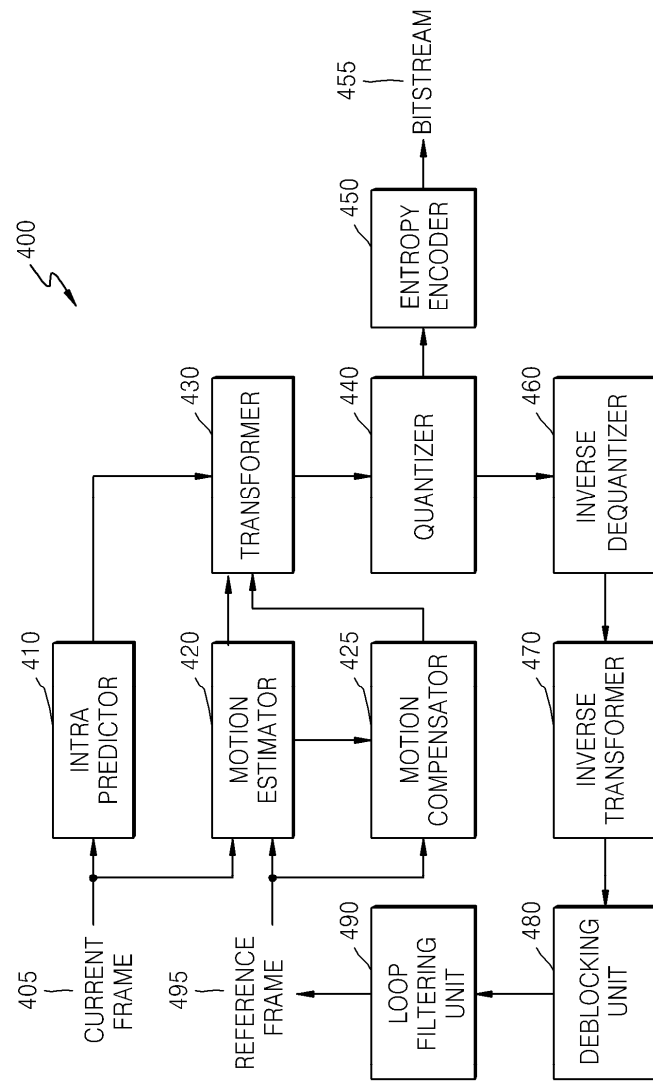


FIG. 13

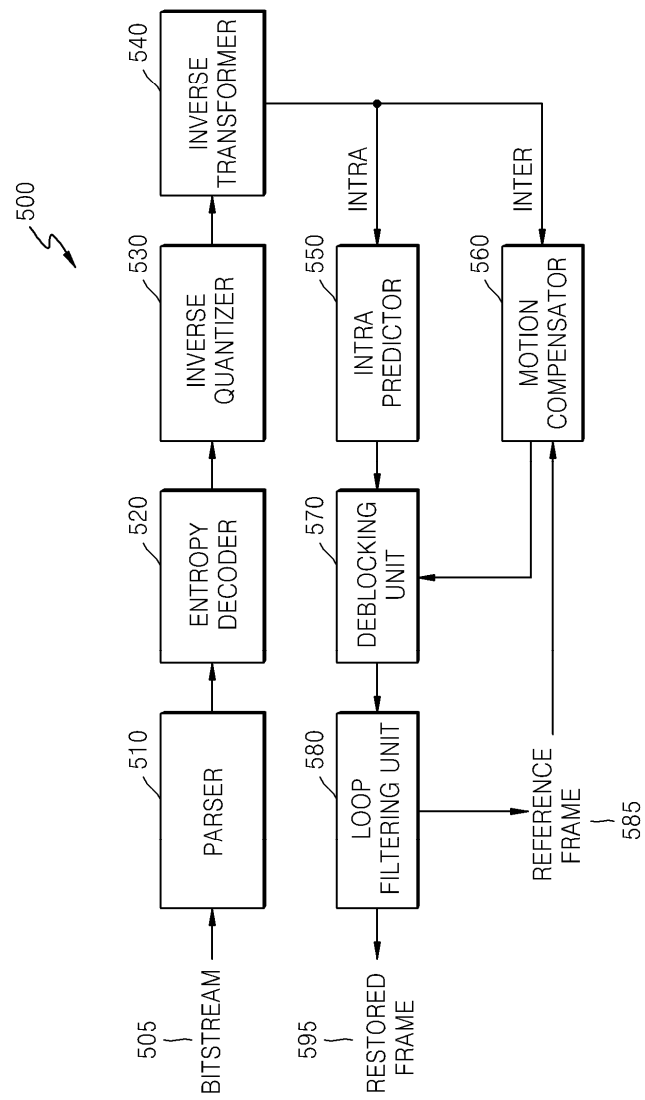


Diagram illustrating a hierarchical coding unit structure (600) for video coding. The structure is defined by the following parameters:

- MAXIMUM CODING UNIT**: The root of the hierarchy, with dimensions 64x64.
- MAXIMUM HEIGHT AND MAXIMUM WIDTH OF CODING UNIT = 64**: The maximum dimensions of any coding unit in the hierarchy.
- MAXIMUM DEPTH=3**: The maximum depth of the hierarchy, measured from the maximum coding unit.
- PREDICTION UNIT/PARTITION**: The unit used for prediction or partitioning, indicated by an arrow pointing right.
- DEEPER CODING UNITS**: The units at lower depths in the hierarchy, including 32x32, 16x16, 8x8, and 4x4 units.
- MINIMUM CODING UNIT**: The smallest coding unit shown, with dimensions 8x8.

The diagram shows a tree structure where the maximum coding unit (64x64) is partitioned into four 32x32 units. Each 32x32 unit is further partitioned into four 16x16 units. Each 16x16 unit is partitioned into four 8x8 units. Each 8x8 unit is partitioned into four 4x4 units. The units are labeled with their dimensions and the number of units they contain (e.g., 32x32, 16x16, 8x8, 4x4).

FIG. 15

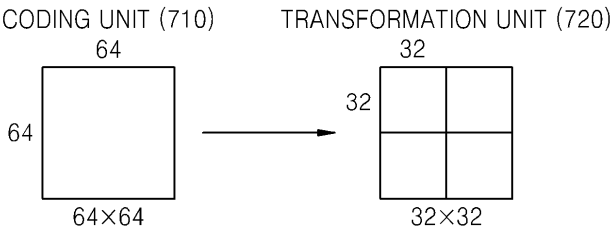


FIG. 16

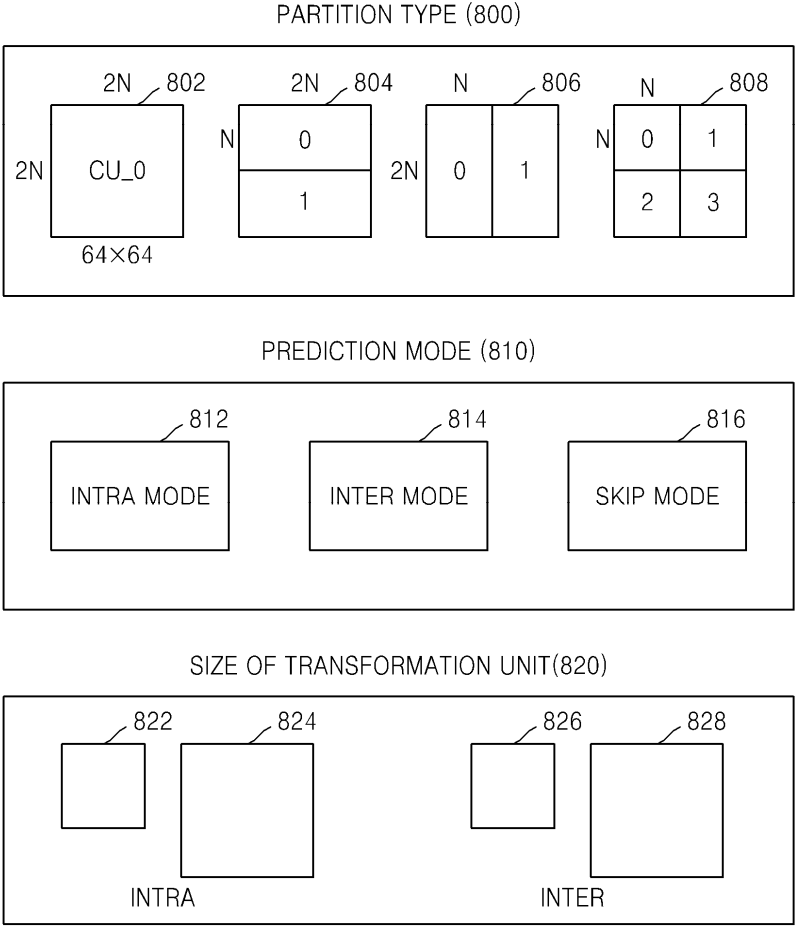


FIG. 17

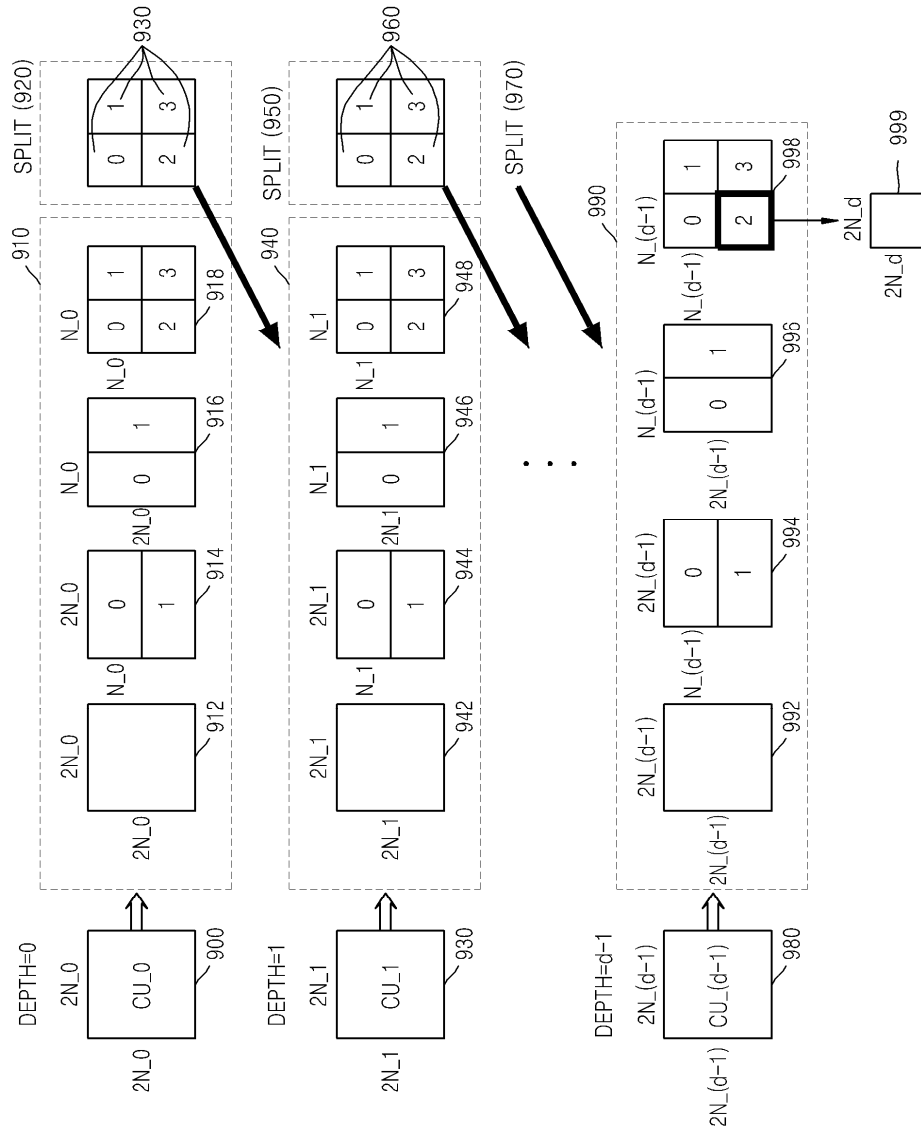


FIG. 18

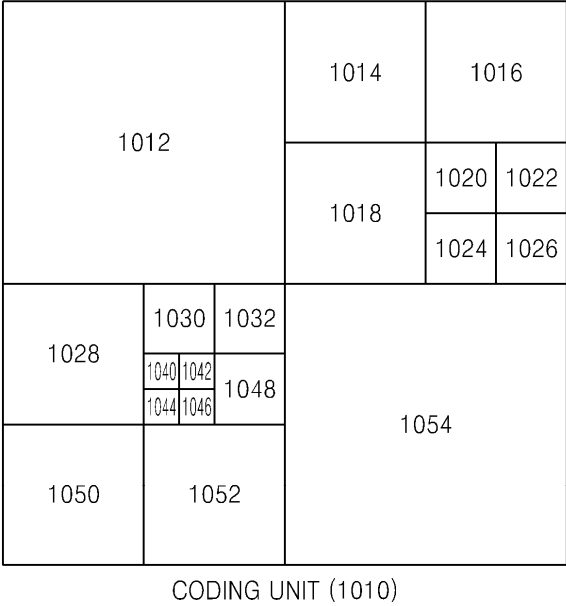


FIG. 19

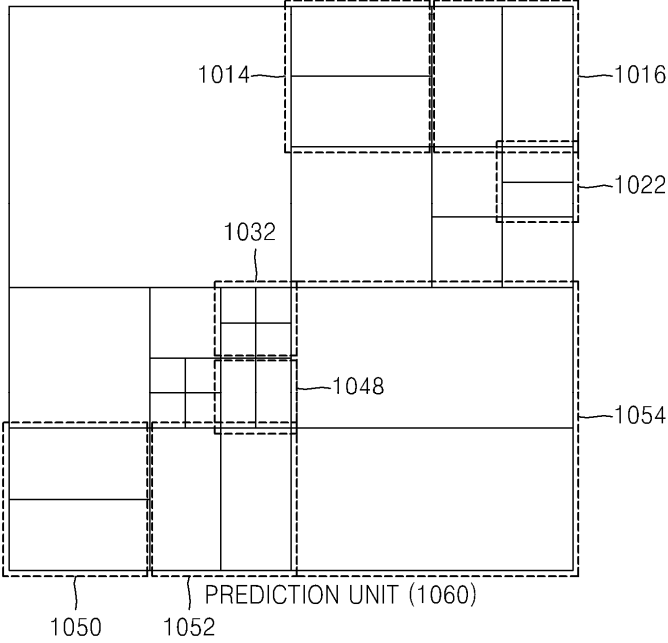
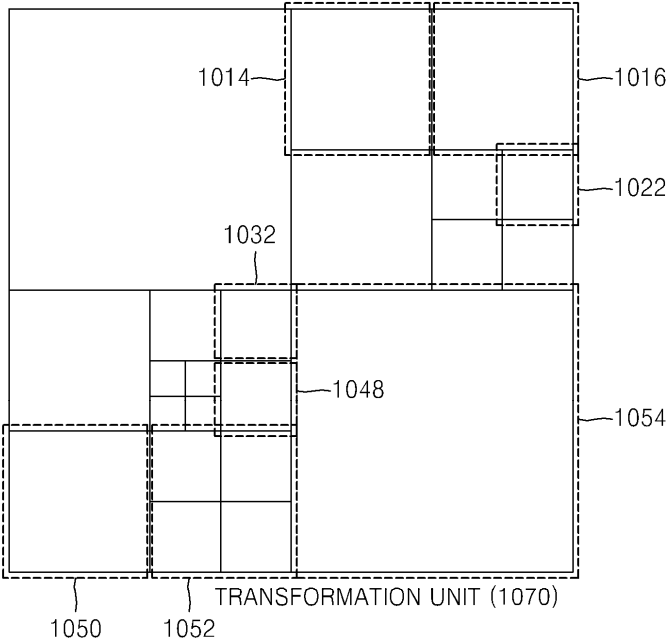


FIG. 20



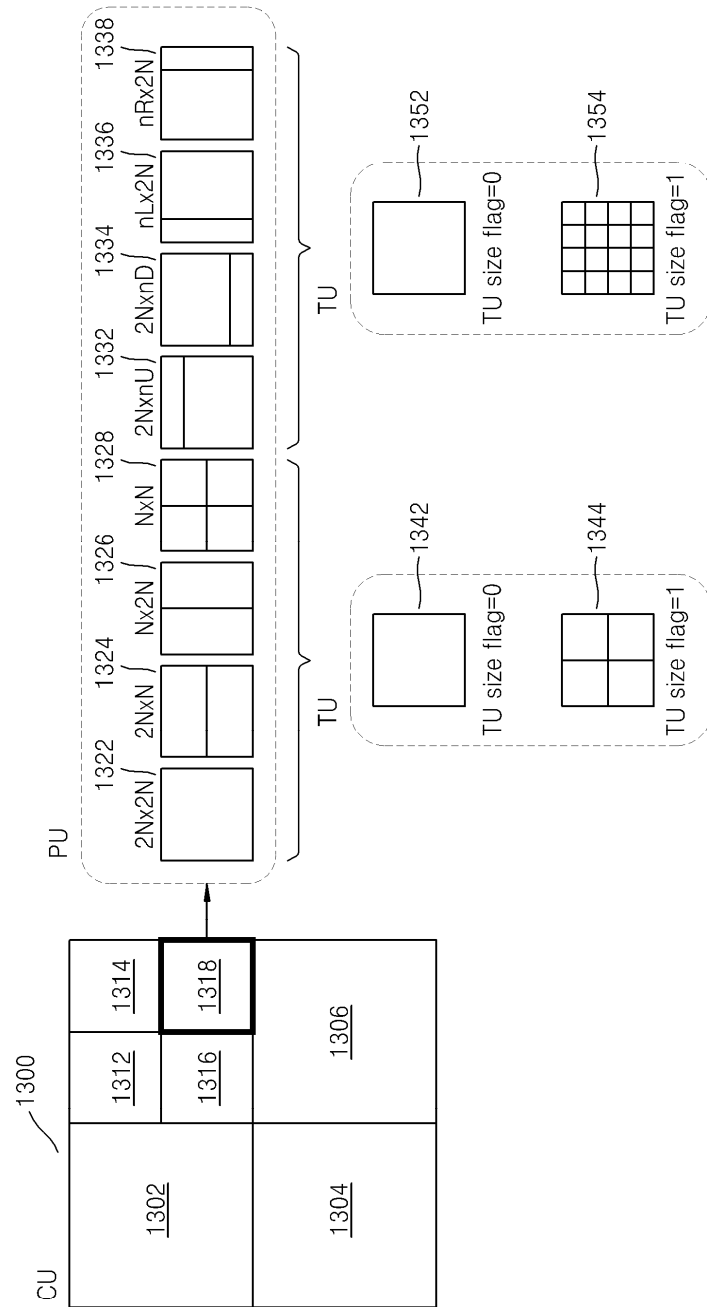


FIG. 21

FIG. 22

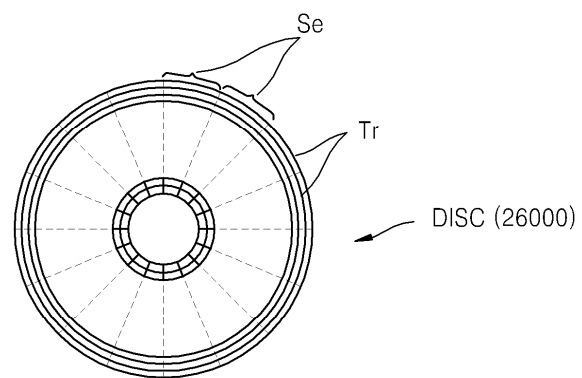
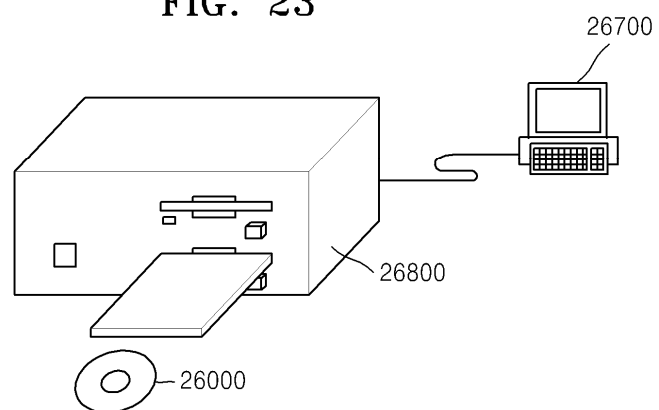


FIG. 23



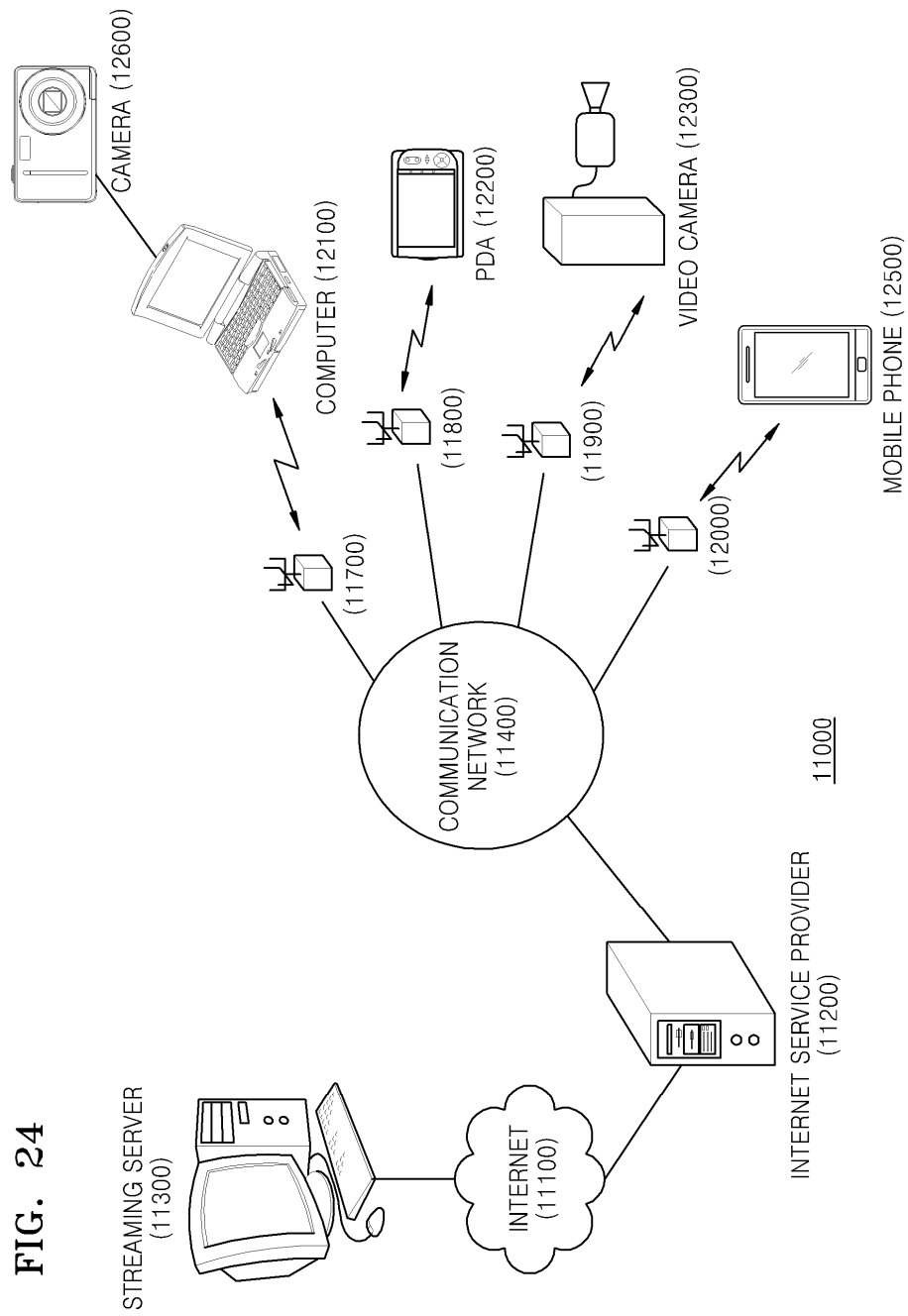


FIG. 24

FIG. 25

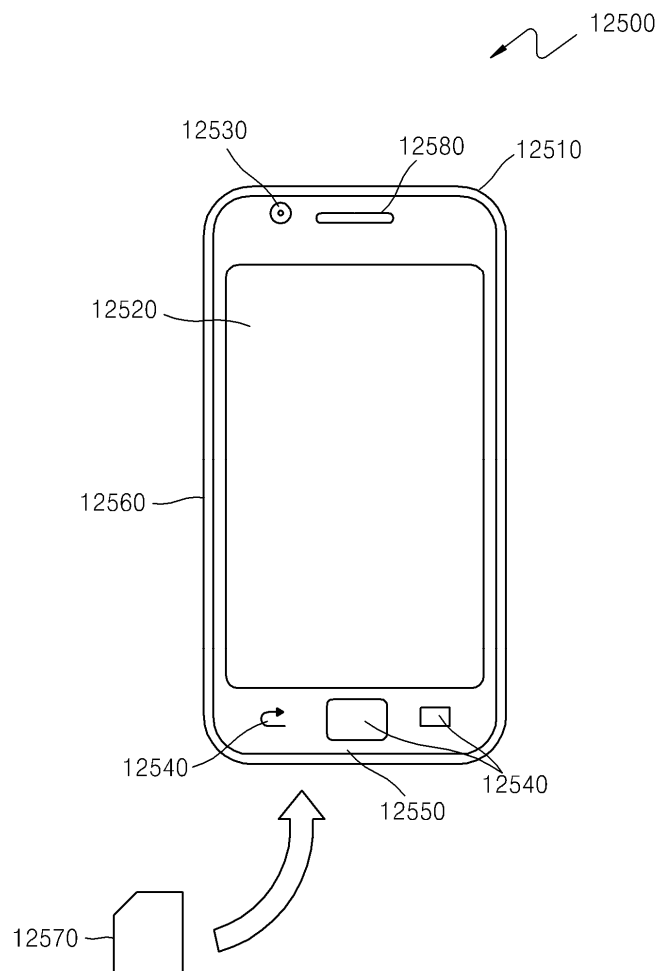


FIG. 26

The diagram illustrates a portable electronic device 12500. A central horizontal arrow represents a synchronization bus 12730. Various functional blocks are connected to this bus:

- Left side of the bus:**
 - 12520 DISPLAY SCREEN** is connected to **12620 LCD CONTROLLER**, which in turn connects to the bus.
 - 12690 IMAGE DECODER** connects to the bus.
 - 12680 MUX/DEMUX** connects to the bus.
 - 12670 RECORDING/READING UNIT** connects to the bus.
 - 12660 MODULATION/DEMODULATION UNIT** connects to the bus.
 - 12650 SOUND PROCESSOR** connects to the bus.
- Right side of the bus:**
 - The bus connects to **12700 POWER SUPPLY CIRCUIT**, which is also connected to a vertical line of three dots indicating additional power components.
 - 12710 CENTRAL CONTROLLER** connects to the bus.
 - 12640 OPERATION INPUT CONTROLLER** connects to the bus.
 - 12720 IMAGE ENCODER** connects to the bus.
 - 12630 CAMERA INTERFACE** connects to the bus.
- External components:**
 - 12510** (Antenna) is connected to the **12660 MODULATION/DEMODULATION UNIT**.
 - 12570 STORAGE MEDIUM** is connected to the **12670 RECORDING/READING UNIT**.
 - 12610 COMMUNICATION CIRCUIT** is connected to the **12660 MODULATION/DEMODULATION UNIT**.
 - 12550 MICROPHONE** is connected to the **12650 SOUND PROCESSOR**.
 - 12580 SPEAKER** is connected to the **12650 SOUND PROCESSOR**.
 - 12540 OPERATION PANEL** is connected to the **12640 OPERATION INPUT CONTROLLER**.
 - 12530 CAMERA** is connected to the **12630 CAMERA INTERFACE**.

FIG. 27

