

CLAIM

1. A decoding method of a video, the method comprising:
obtaining a split transformation flag for a current depth,
from a bitstream;
when the split transformation flag indicates non-split for
the current depth, determining a transformation depth is
equal to the current depth;
determining a context increasement parameter for deter-
mining a context index based on whether the transfor-
mation depth is equal to a predetermined value without
using a size of a transformation unit;
obtaining a context model for arithmetic decoding a
transformation unit significant coefficient flag using the
context index obtained by adding the context increas-
ement parameter and a context offset;
arithmetic decoding the transformation unit significant
coefficient flag based on the context model; and
determining whether at least one non-zero transformation
coefficient exists in the transformation unit of the
transformation depth, based on the transformation unit
significant coefficient flag,
wherein the transformation depth indicates a number of
times a height and a width of a coding unit are split to
obtain the transformation unit,
wherein the predetermined value is zero,
wherein, when the split transformation flag indicates a
split for a current depth, the transformation unit of the
current depth is split into four transformation units of a
next depth, and a split transformation flag for the next
depth is obtained from the bitstream, and
wherein the context model includes an information to
determine a most probable symbol (MPS).