

(57) **Abrégé(suite)/Abstract(continued):**
coefficient matrix K, by using an element L [i] [j] of the quantized value matrix L, a quantization parameter QP and a mantissa portion matrix element B(QP)[i] [j] being a function of the quantization parameter QP, as $K [i] [j] = L [i] [j] \times B(QP \bmod P) [i] [j] \times 2^{B0+QP/P}$, where P is an integer.

ABSTRACT

A video decoding device for dequantization is provided. The device is configured to derive a transform coefficient matrix K by dequantizing a quantized value matrix L . The video decoding device is configured to derive an element $K[i][j]$ of the transform coefficient matrix K , by using an element $L[i][j]$ of the quantized value matrix L , a quantization parameter QP and a mantissa portion matrix element $B(QP)[i][j]$ being a function of the quantization parameter QP , as $K[i][j] = L[i][j] \times B(QP \bmod P)[i][j] \times 2^{B_0 + QP/P}$, where P is an integer.

