ABSTRACT OF THE DISCLOSURE (FIG. 3)

"EXTENDED KEY GENERATOR, ENCRYPTION/DECRYPTION UNIT, EXTENDED KEY GENERATION METHOD, AND STORAGE MEDIUM"

There are disclosed an extended key generator, encryption/decryption unit, and storage medium, in which as each of key transform functions, a transform process is done by an S box (substitution table) on the basis of a first key obtained from the inputted key, and an adder computes a corresponding one of extended keys on the basis of a value obtained by shifting the transformed result of the S box to the left, and a second key obtained from the inputted key.