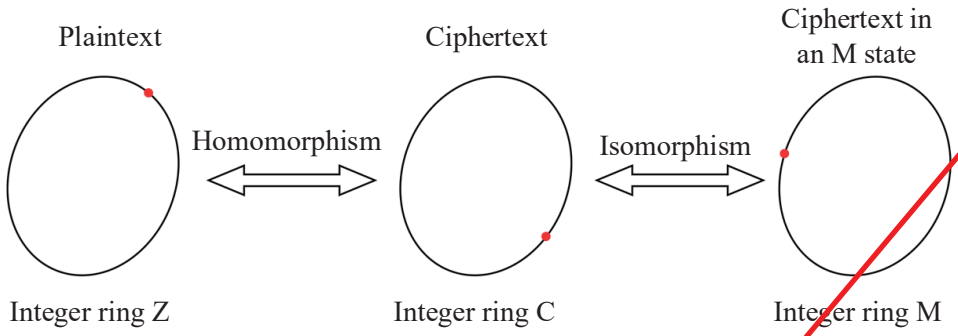

Plaintext
Ciphertext
Ciphertext in an M state
Homomorphism
Isomorphism
Integer ring Z
Integer ring C
Integer ring M

FIG. 5

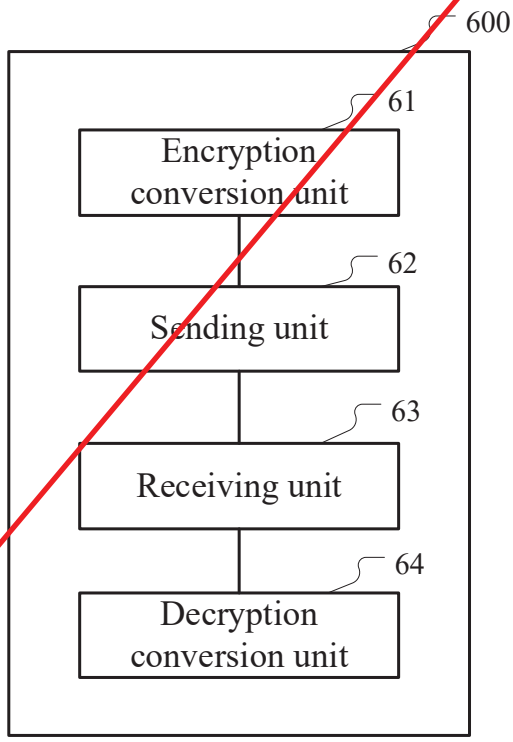

600
61
Encryption conversion unit
62
Sending unit
63
Receiving unit
64
Decryption conversion unit

FIG. 6

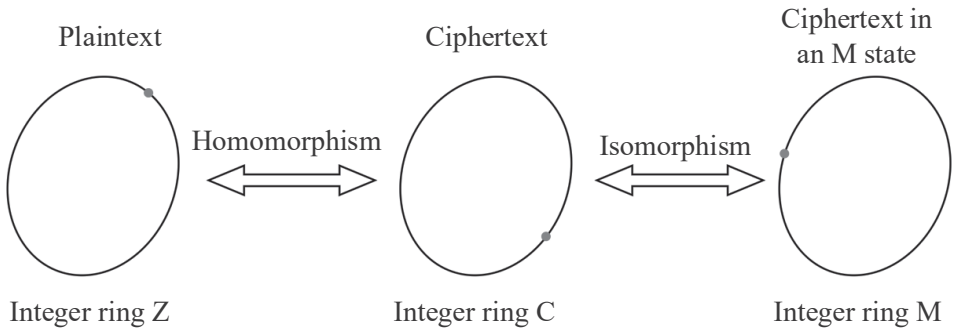

Plaintext
Ciphertext
Ciphertext in an M state
Homomorphism
Isomorphism
Integer ring Z
Integer ring C
Integer ring M

FIG. 5

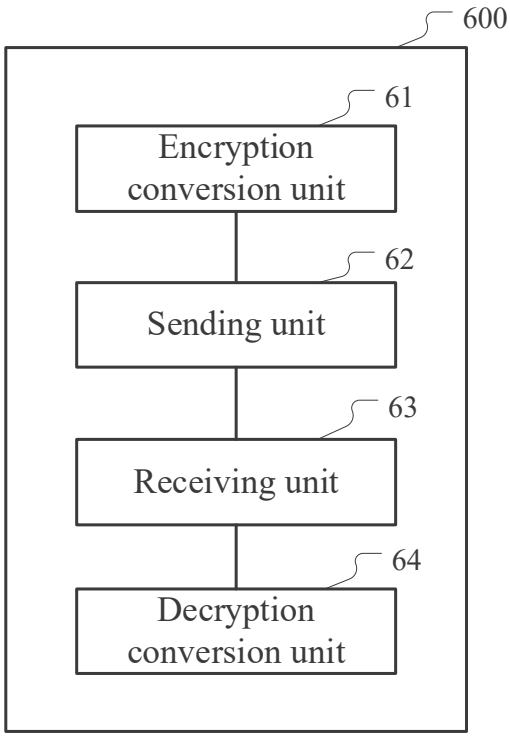

600
61
Encryption conversion unit
62
Sending unit
63
Receiving unit
64
Decryption conversion unit

FIG. 6