163163

G00002

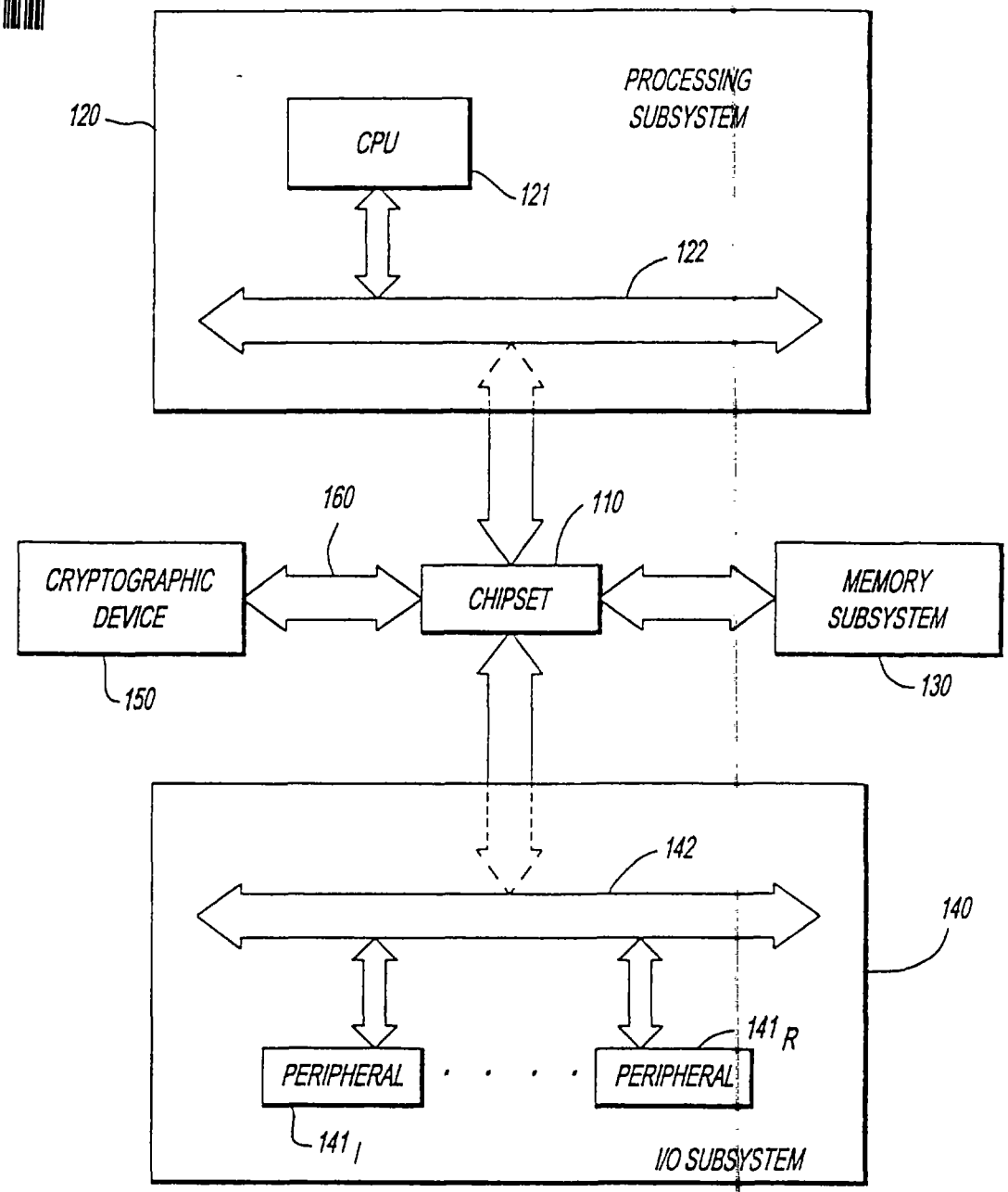


FIG. 1

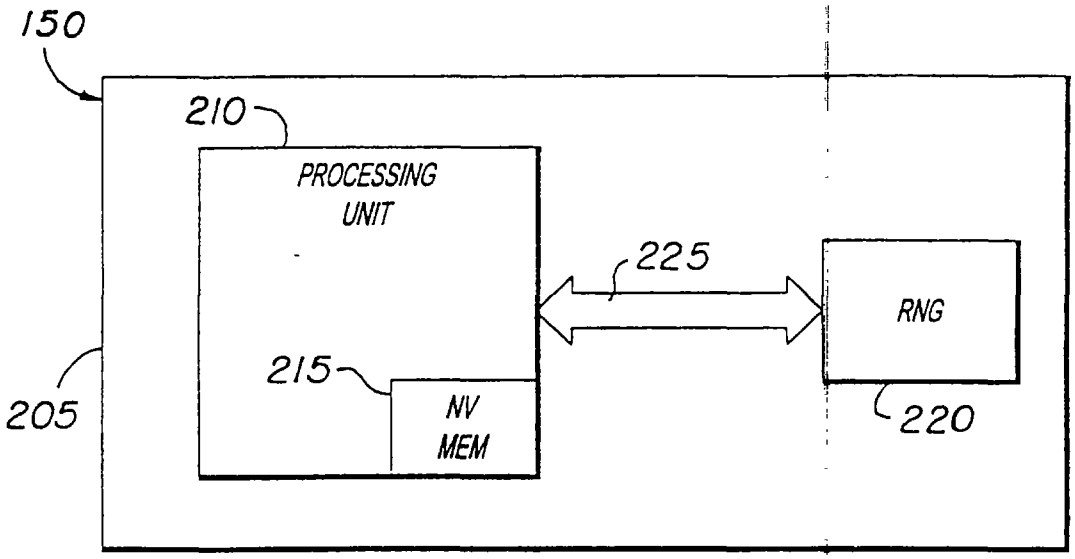


FIG. 2

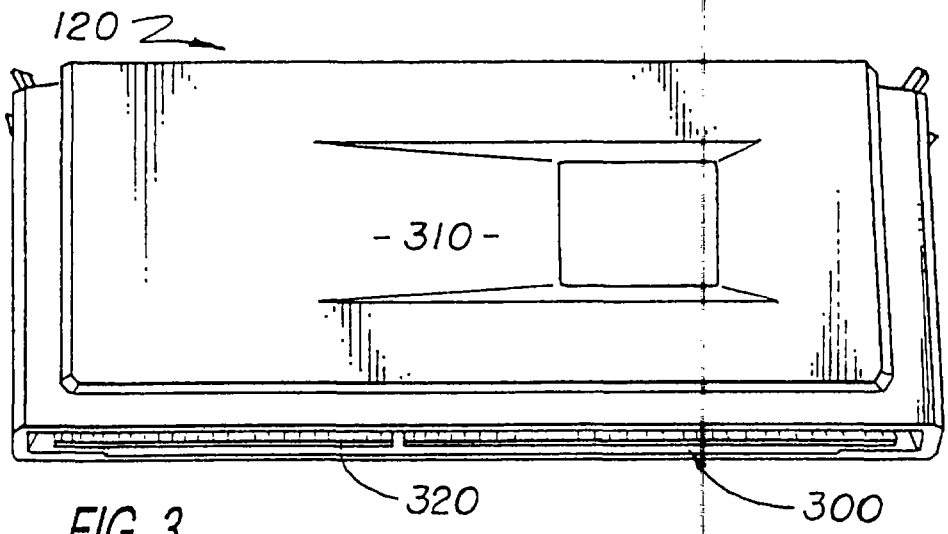


FIG. 3

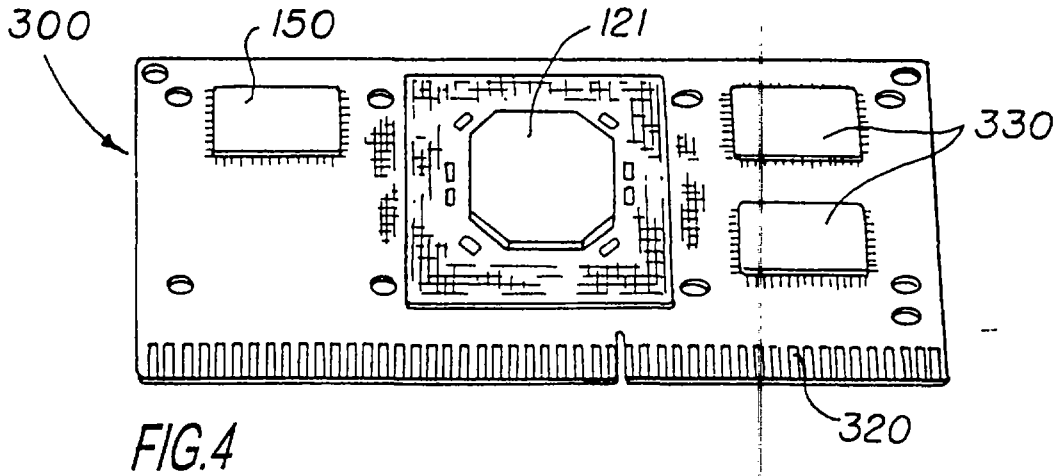


FIG.4

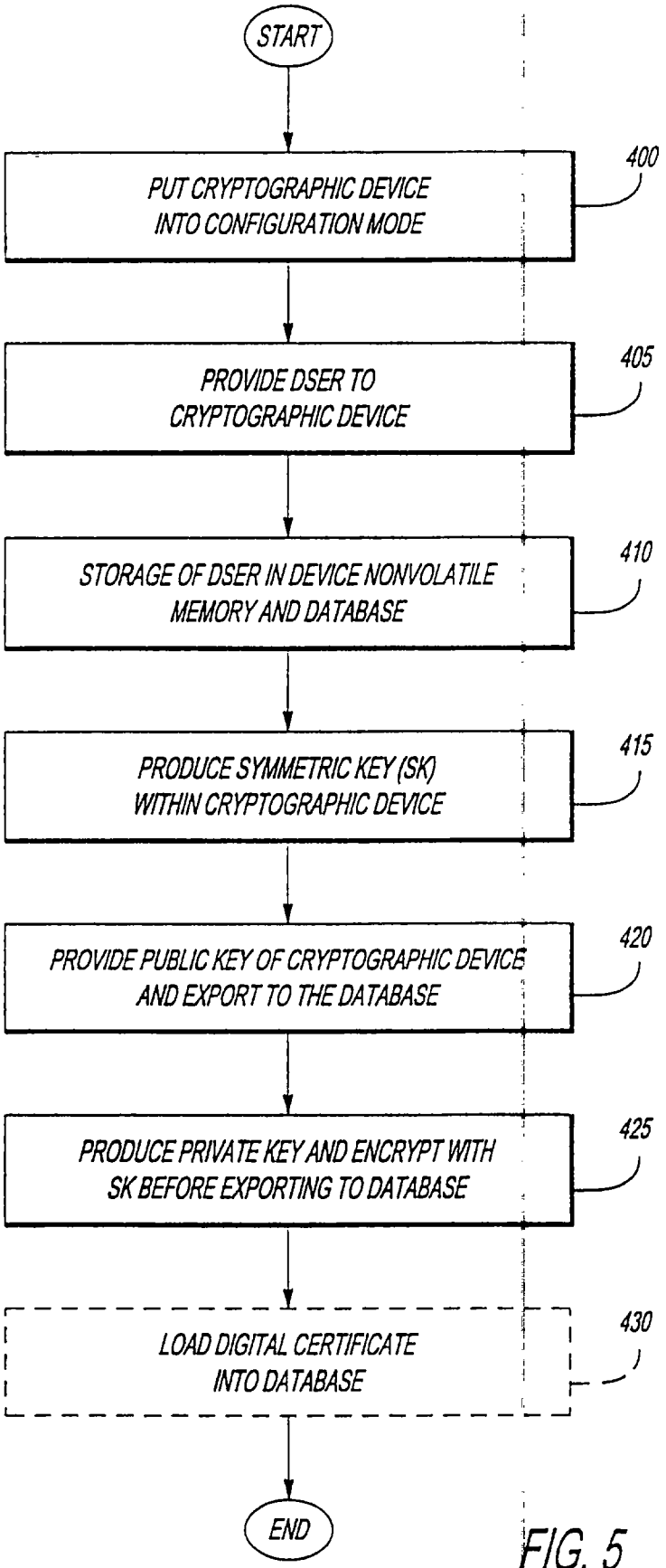

START
PUT CRYPTOGRAPHIC DEVICE INTO CONFIGURATION MODE
400
PROVIDE DSER TO CRYPTOGRAPHIC DEVICE
405
STORAGE OF DSER IN DEVICE NONVOLATILE MEMORY AND DATABASE
410
PRODUCE SYMMETRIC KEY (SK) WITHIN CRYPTOGRAPHIC DEVICE
415
PROVIDE PUBLIC KEY OF CRYPTOGRAPHIC DEVICE AND EXPORT TO THE DATABASE
420
PRODUCE PRIVATE KEY AND ENCRYPT WITH SK BEFORE EXPORTING TO DATABASE
425
LOAD DIGITAL CERTIFICATE INTO DATABASE
430
END

FIG. 5

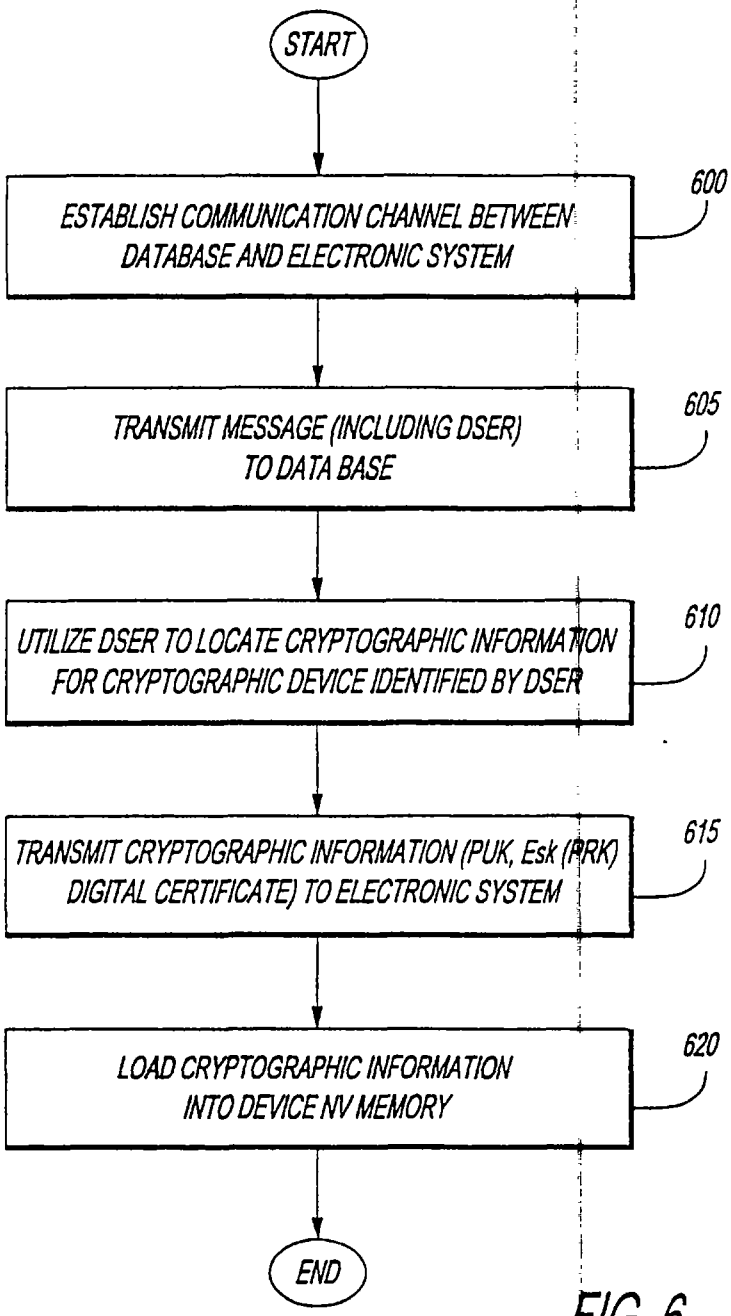

START
ESTABLISH COMMUNICATION CHANNEL BETWEEN DATABASE AND ELECTRONIC SYSTEM
600
TRANSMIT MESSAGE (INCLUDING DSER) TO DATA BASE
605
UTILIZE DSER TO LOCATE CRYPTOGRAPHIC INFORMATION FOR CRYPTOGRAPHIC DEVICE IDENTIFIED BY DSER
610
TRANSMIT CRYPTOGRAPHIC INFORMATION (PUK, Esk (PRK) DIGITAL CERTIFICATE) TO ELECTRONIC SYSTEM
615
LOAD CRYPTOGRAPHIC INFORMATION INTO DEVICE NV MEMORY
620
END

FIG. 6