

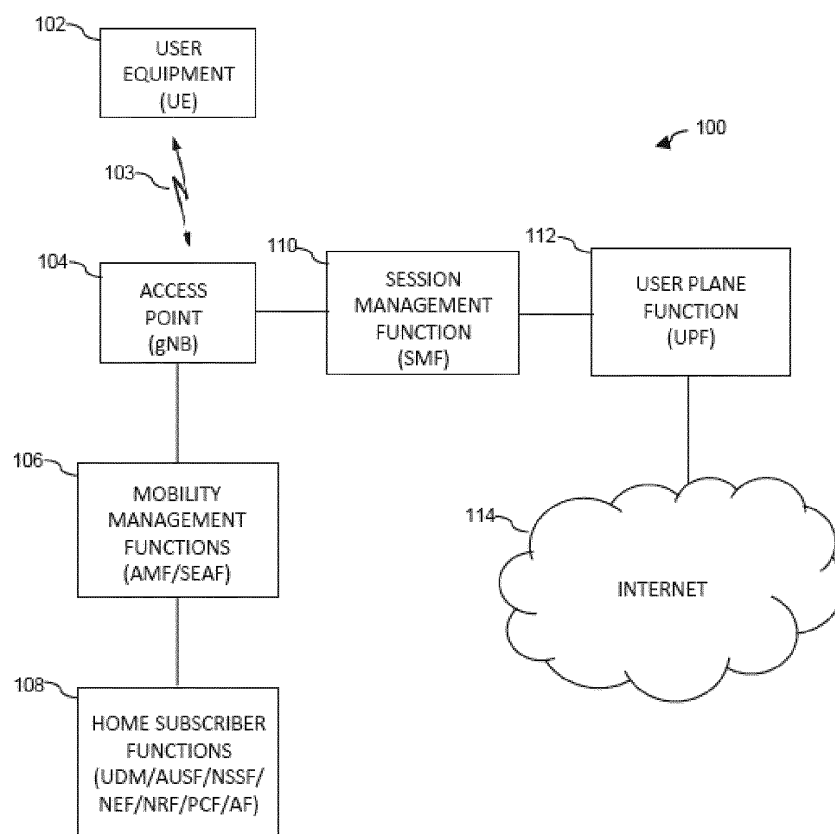


FIG. 1

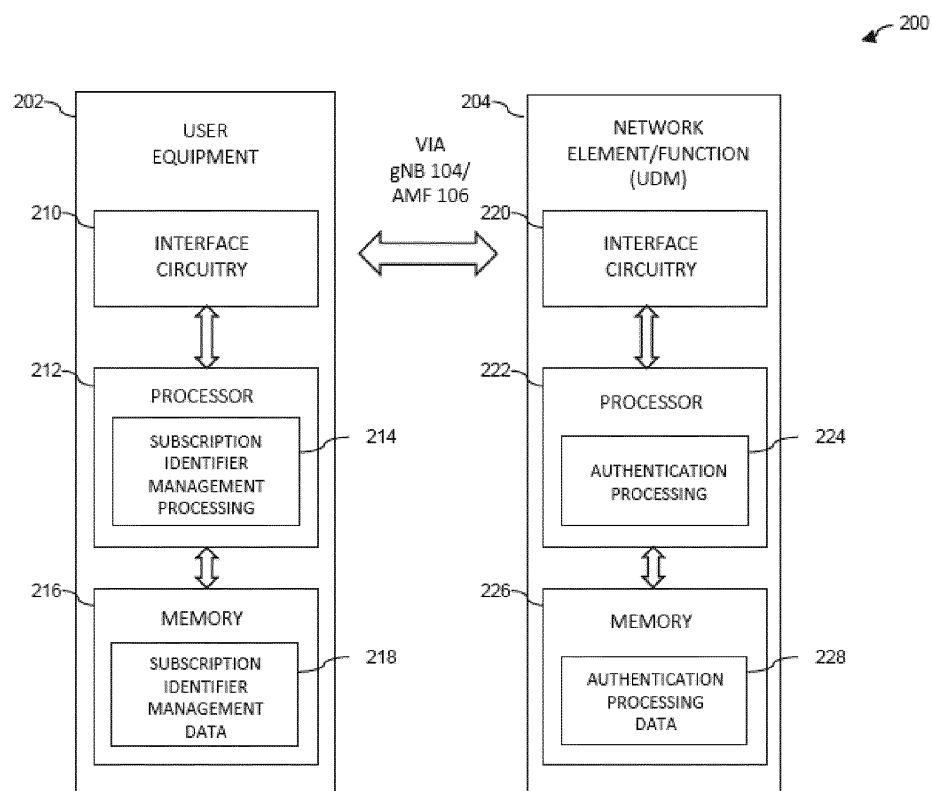


FIG. 2

IMSI		
MCC (3 digits)	MNC (3digits)	MSIN (9 digits)

300

FIG. 3A

SUPI			
MCC (3 digits)	MNC (3digits)	UDM Selector (8 bits)	MSIN

310

FIG. 3B

SUCI			
MCC (3 digits)	MNC (3digits)	UDM Selector	Encrypted (MSIN)
Parameters to decrypt the encrypted MSIN			

320

FIG. 3C

400

Subscription identifier (SUCI, SUPI, IMSI)		
MCC 402	MNC 404	UDM Selection parameter 406
Encryption ON/OFF 408	KDF 410	KDF Optional parameters 412
Identifier type SUPI/SUCI/IMSI 414	ECIES Curve selected for encryption 416	Ephemeral Public key pair 418
Length of encrypted MSIN 420	encrypted MSIN 422	MSIN MAC 424
Encryption Algorithm 426	Identifier field	

FIG. 4

Field	Length (bits)
Identifier type (SUPI, SUCI, IMSI) ⁴¹⁴	2 bits
Encryption on / off ⁴⁰⁸	1 bit
ENCRYPTION Algorithm identifier ⁴²⁶	4 bits
ECIES Curve selected for encryption ⁴¹⁶	4 bits
Ephemeral Public key of Sender ⁴¹⁸	256 bits
Length of encrypted MSIN ⁴²⁰	4 (128 bits, 192 bits, 256 bits, 512 bits,)
Encrypted MSIN ⁴²²	(length specified in field 420)
MSIN MAC (Message Authentication of the MSIN field computed using the ECIES curves) ⁴²⁴	256bits
UDM Selection parameter ⁴⁰⁶	8 bits
MCC ⁴⁰²	24 bits (3 digits)
MNC ⁴⁰⁴	24 bits (3 digits)
KDF used for the encryption ⁴¹⁰	3bits
KDF Optional parameters ⁴¹²	n bits

 500

FIG. 5

600

Subscription identifier (SUCI, SUPI, IMSI)		
MCC <u>602</u>	MNC <u>604</u>	UDM Selection parameter <u>606</u>
Identifier type SUPI/SUCI/IMSI <u>608</u>	Length of encrypted MSIN <u>610</u>	encrypted MSIN <u>612</u>
MSIN MAC <u>614</u>	Profile Selection <u>616</u>	

FIG. 6

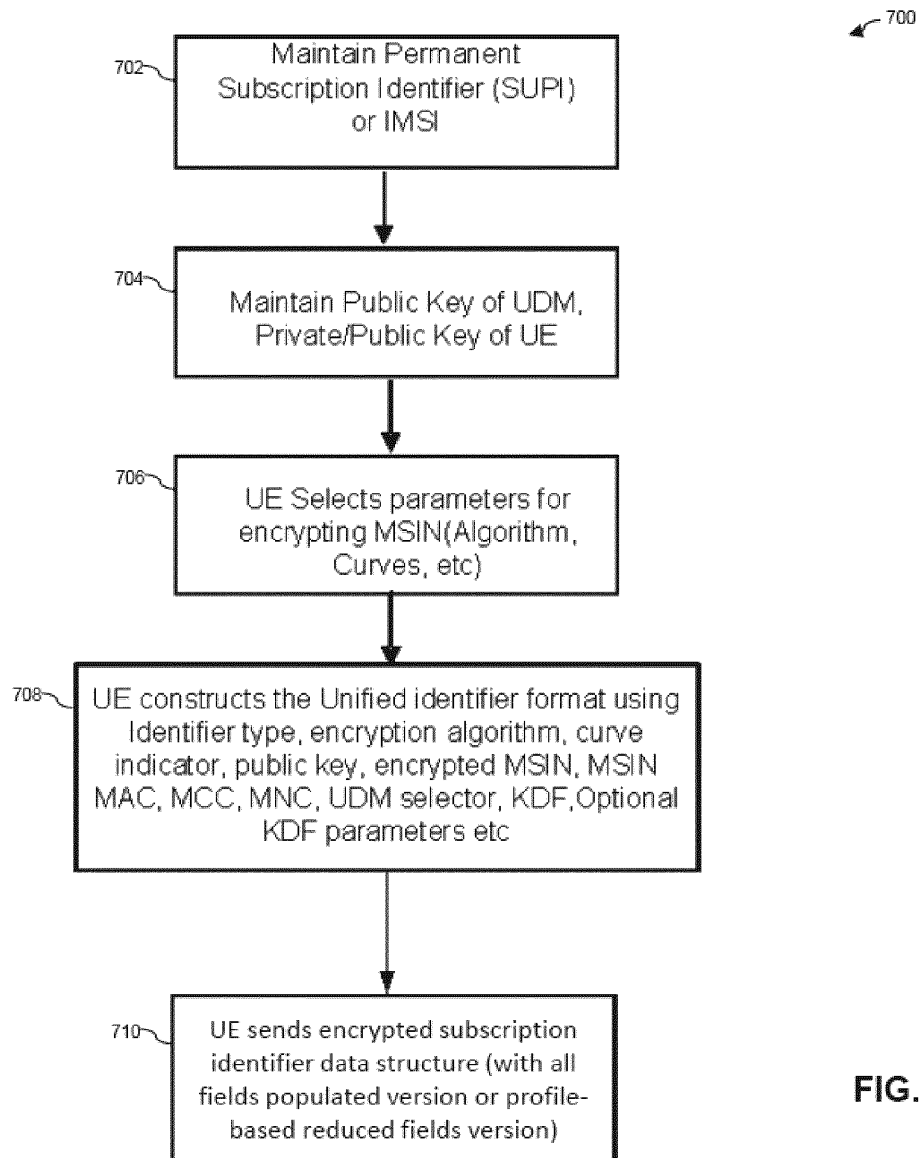
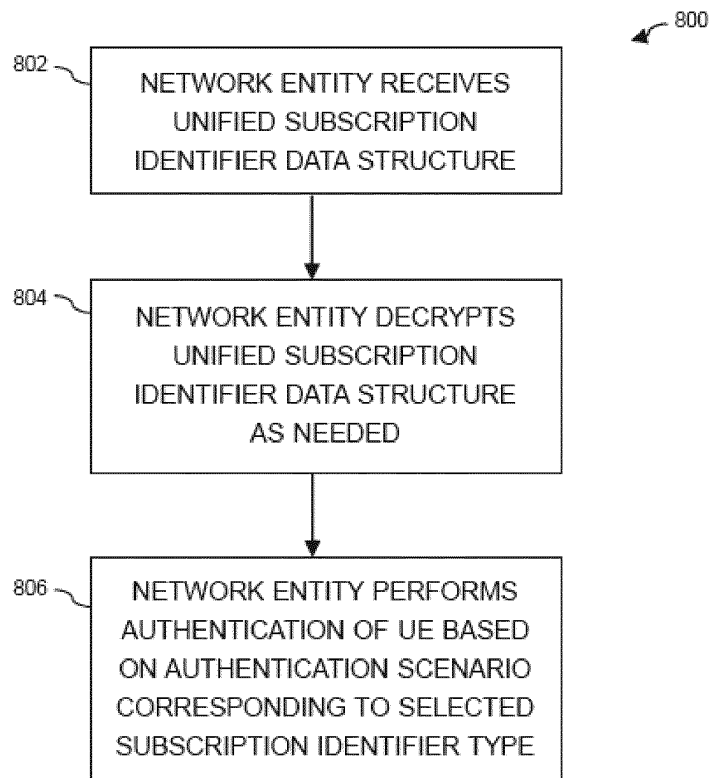


FIG. 7

**FIG. 8**