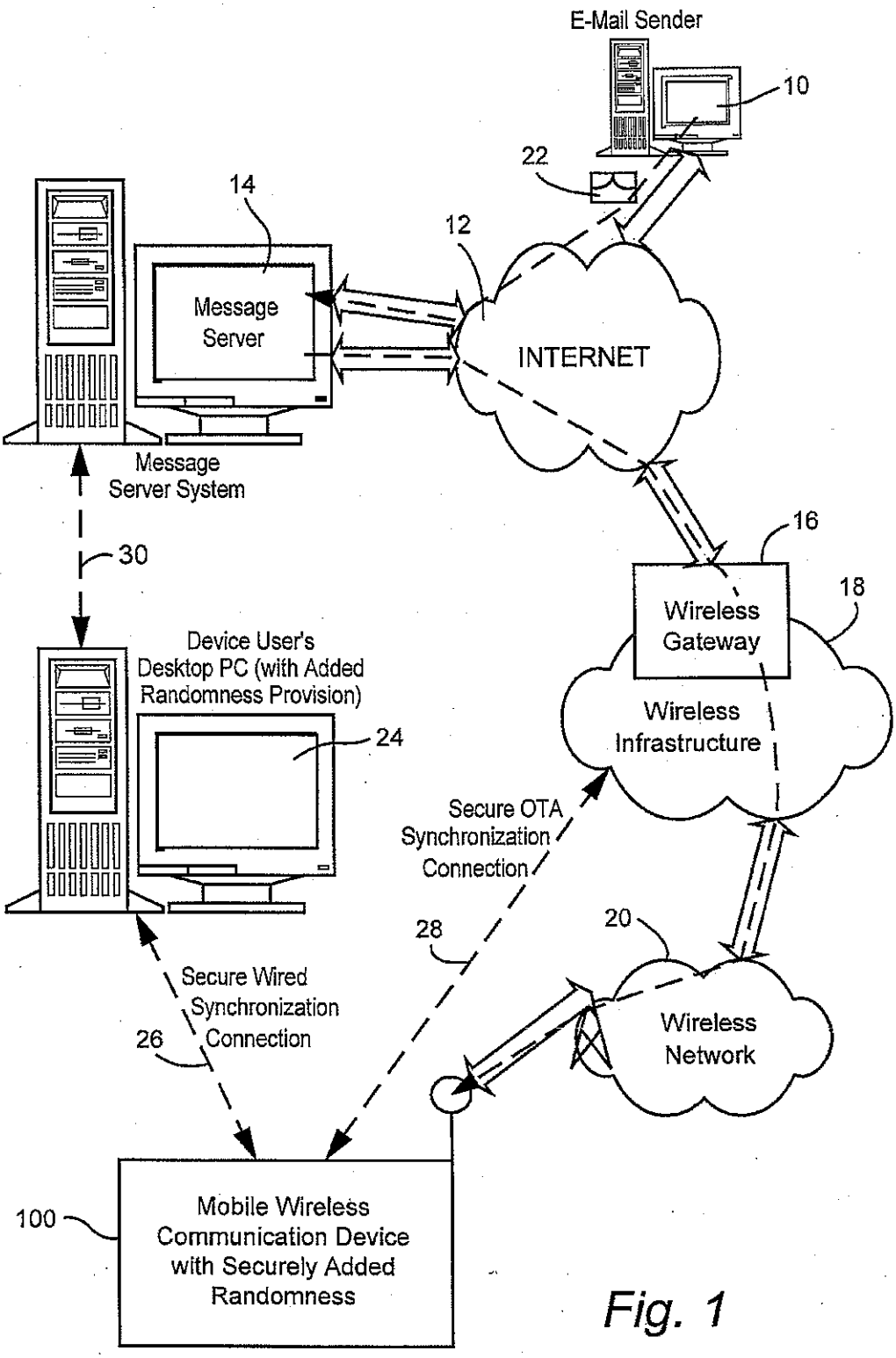

E-Mail Sender
10
22
14
12
Message
Server
INTERNET
Message
Server System
30
16
18
Wireless
Gateway
Device User's
Desktop PC (with Added
Randomness Provision)
24
Wireless
Infrastructure
Secure OTA
Synchronization
Connection
28
20
Secure Wired
Synchronization
Connection
26
Wireless
Network
100
Mobile Wireless
Communication Device
with Securely Added
Randomness

Fig. 1

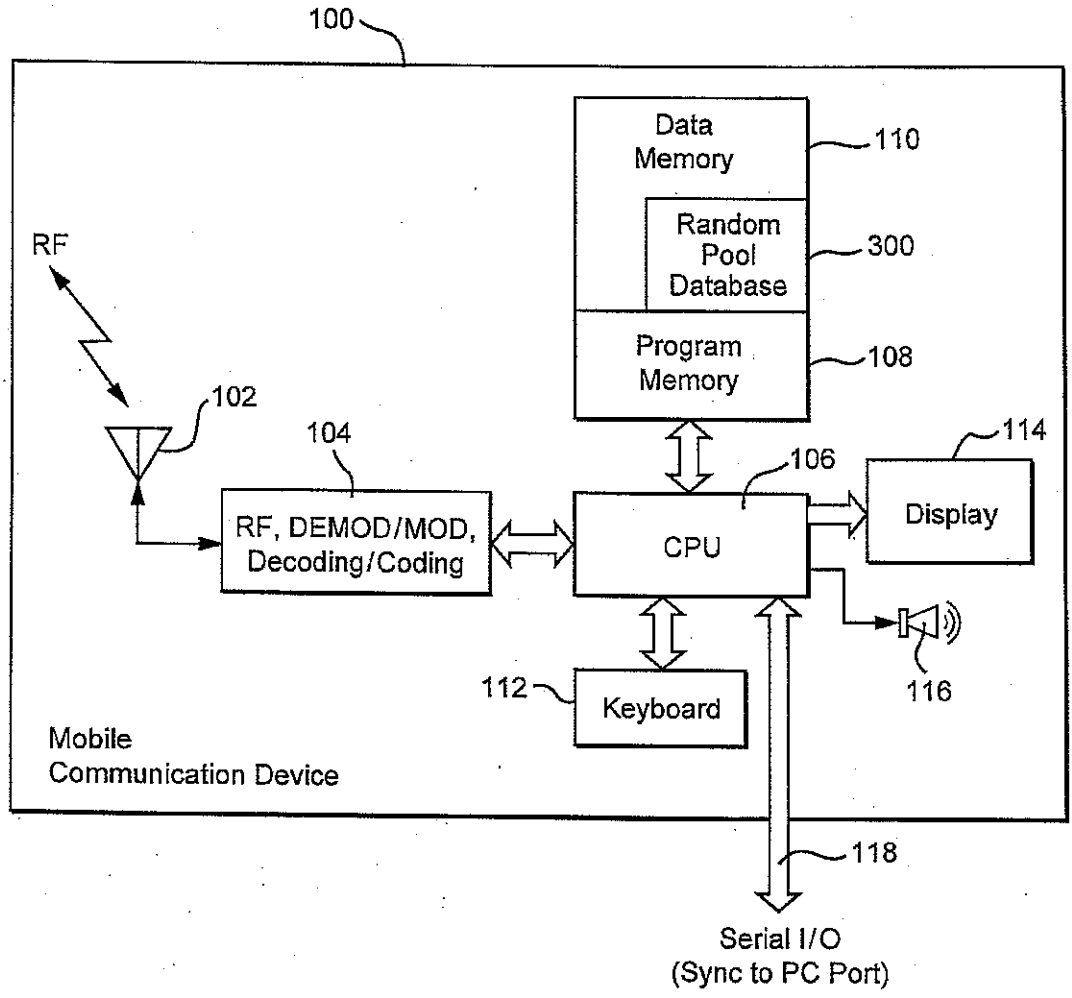

100
Data Memory
110
Random Pool Database
300
Program Memory
108
RF
102
104
106
114
RF, DEMOD/MOD, Decoding/Coding
CPU
Display
112
Keyboard
116
Mobile Communication Device
118
Serial I/O (Sync to PC Port)

Fig. 2

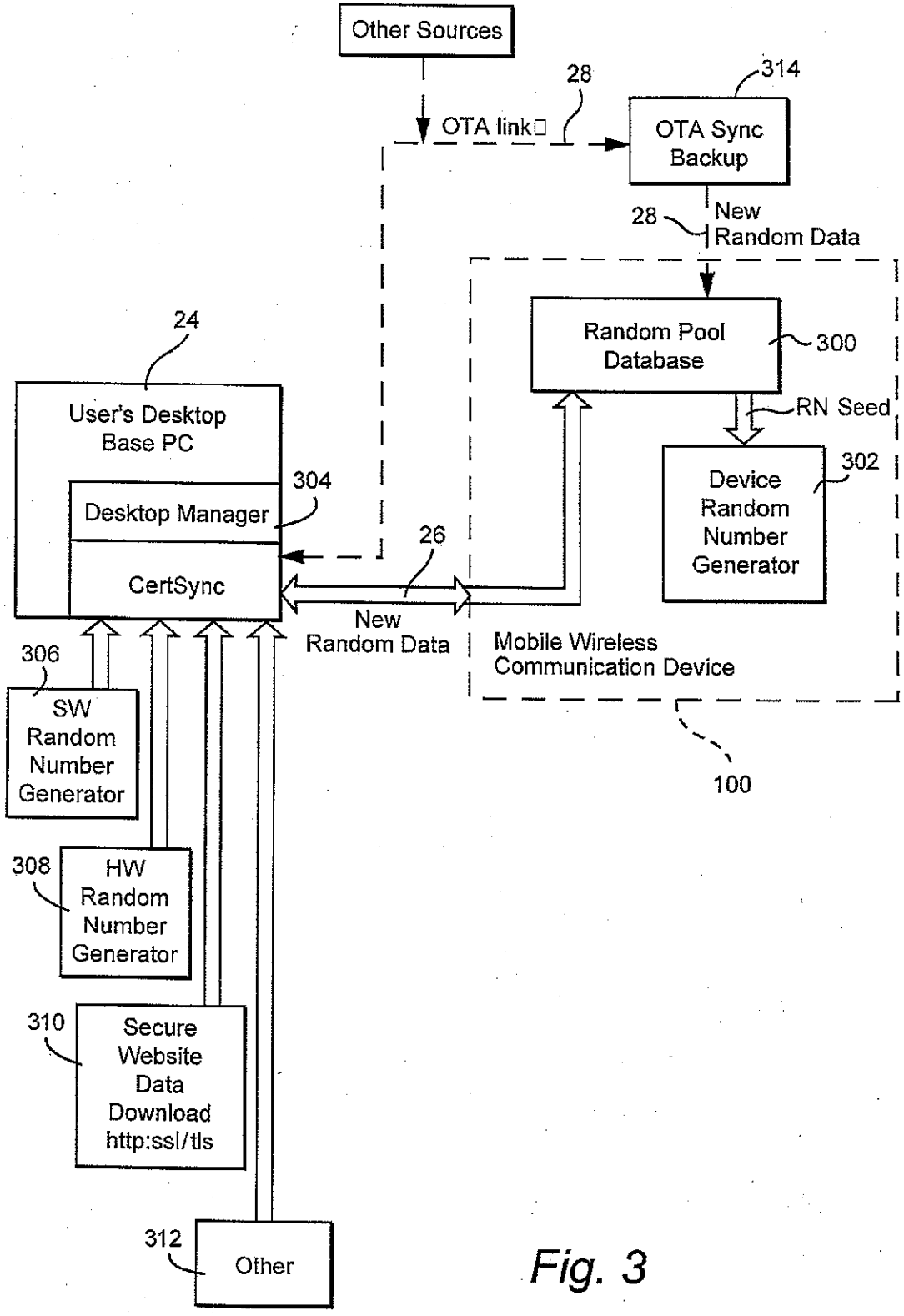

Other Sources
28
314
OTA link
OTA Sync Backup
28
New Random Data
Random Pool Database
300
RN Seed
24
User's Desktop Base PC
304
Desktop Manager
CertSync
26
302
Device Random Number Generator
New Random Data
Mobile Wireless Communication Device
100
306
SW Random Number Generator
308
HW Random Number Generator
310
Secure Website Data Download http:ssl/tls
312
Other

Fig. 3

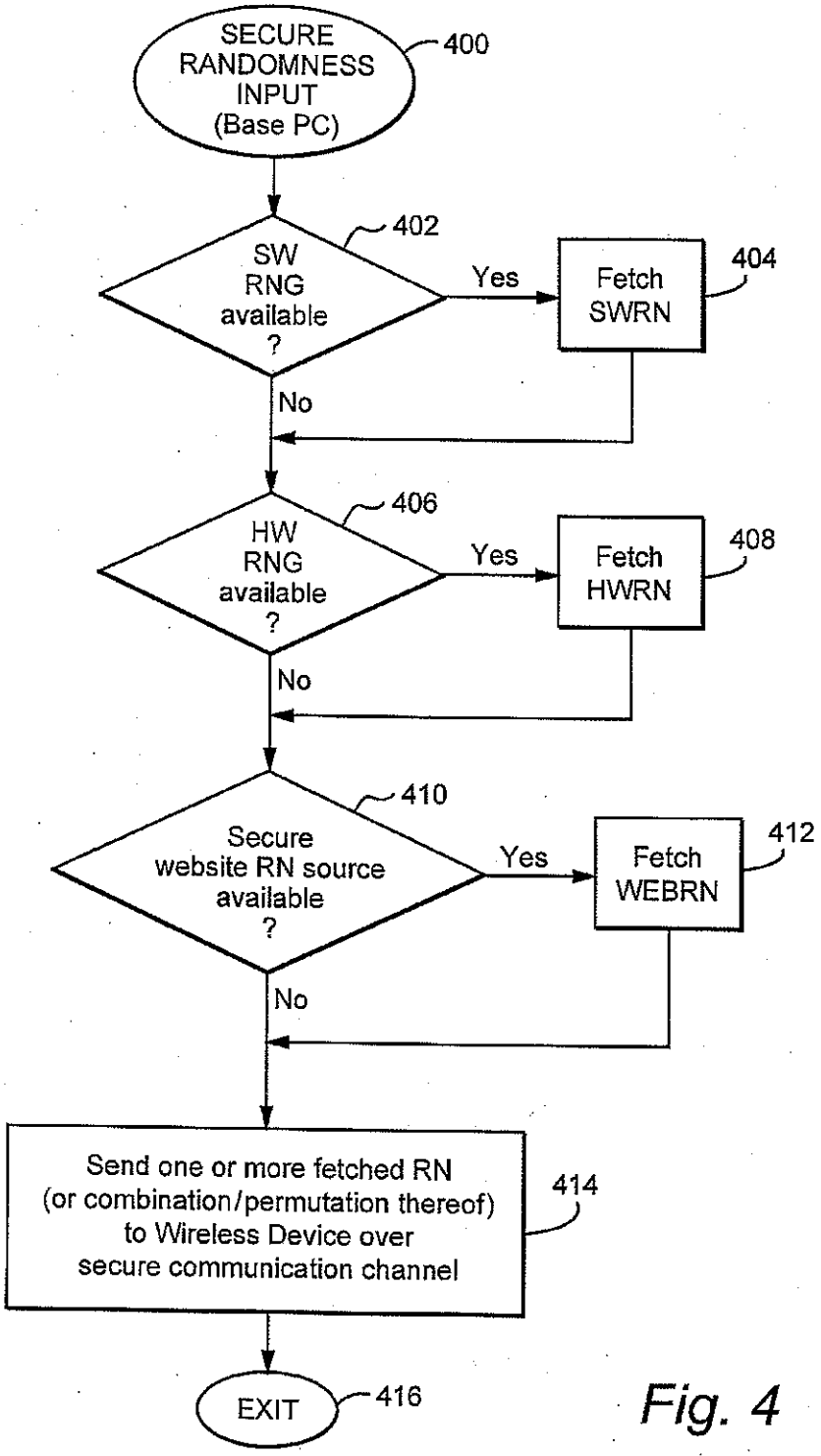

SECURE RANDOMNESS INPUT (Base PC)
400
SW RNG available ?
402
Yes
Fetch SWRN
404
No
HW RNG available ?
406
Yes
Fetch HWRN
408
No
Secure website RN source available ?
410
Yes
Fetch WEBRN
412
No
Send one or more fetched RN (or combination/permutation thereof) to Wireless Device over secure communication channel
414
EXIT
416

Fig. 4

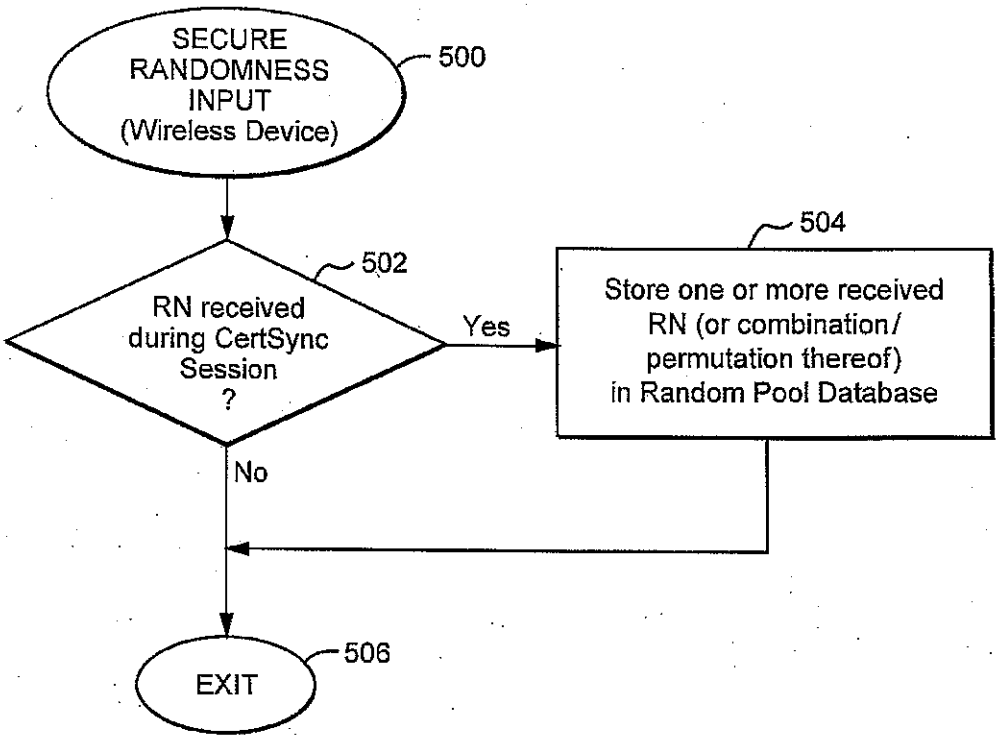

SECURE RANDOMNESS INPUT (Wireless Device)
500
RN received during CertSync Session ?
502
Yes
No
Store one or more received RN (or combination/ permutation thereof) in Random Pool Database
504
EXIT
506

Fig. 5