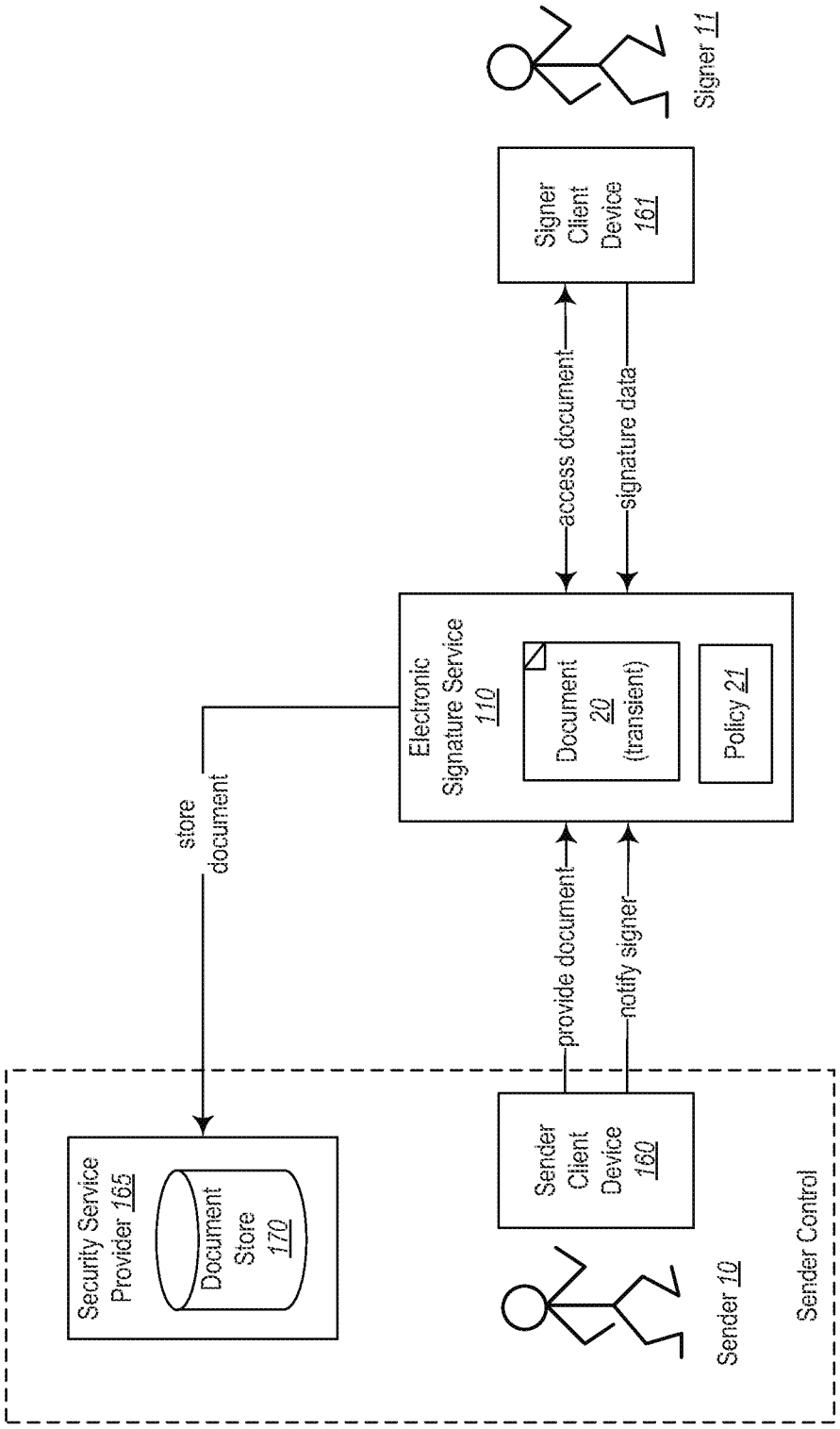
Signer 11
Signer Client Device 161
access document
signature data
Electronic Signature Service 110
Document 20 (transient)
Policy 21
store document
provide document
notify signer
Security Service Provider 165
Document Store 170
Sender Client Device 160
Sender 10
Sender Control

Fig. 1

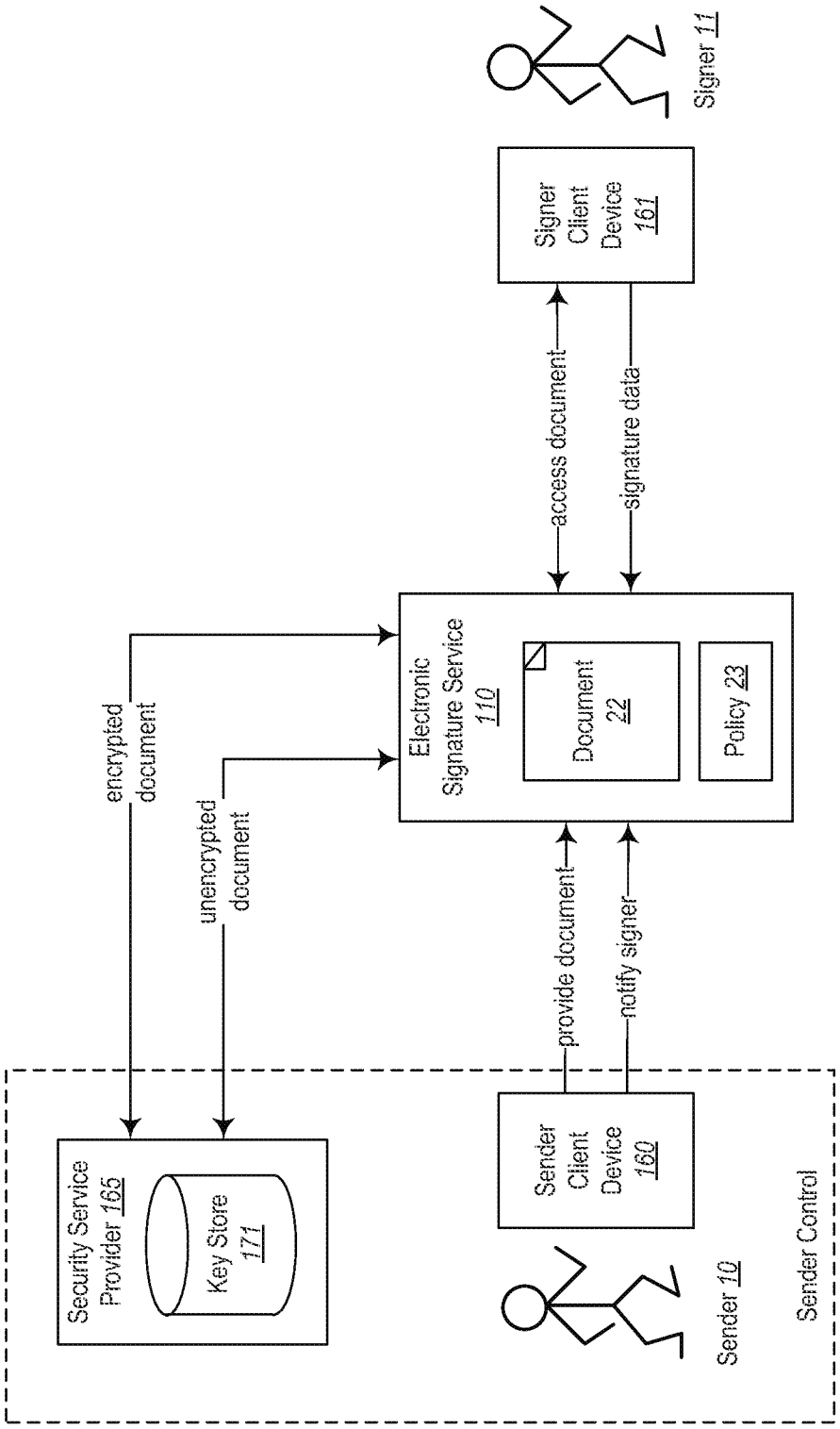
Signer 11
Signer Client Device 161
access document
signature data
Electronic Signature Service 110
Document 22
Policy 23
encrypted document
unencrypted document
provide document
notify signer
Security Service Provider 165
Key Store 171
Sender Client Device 160
Sender 10
Sender Control

Fig. 2

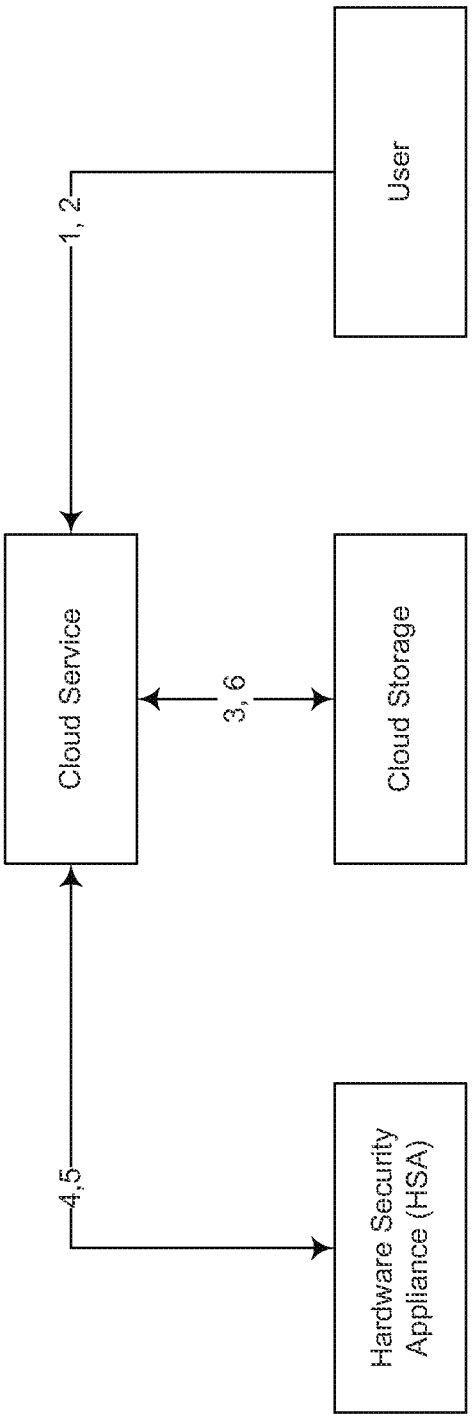
User
1, 2
Cloud Service
3, 6
Cloud Storage
4,5
Hardware Security Appliance (HSA)

Fig. 3A

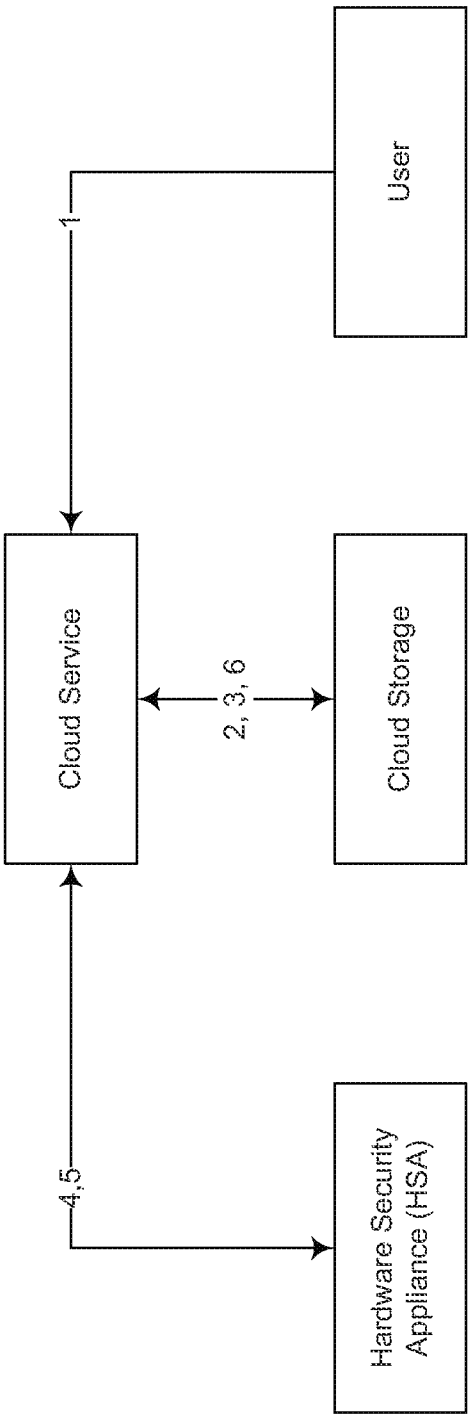
User
1
Cloud Service
2, 3, 6
Cloud Storage
4,5
Hardware Security Appliance (HSA)

Fig. 3B

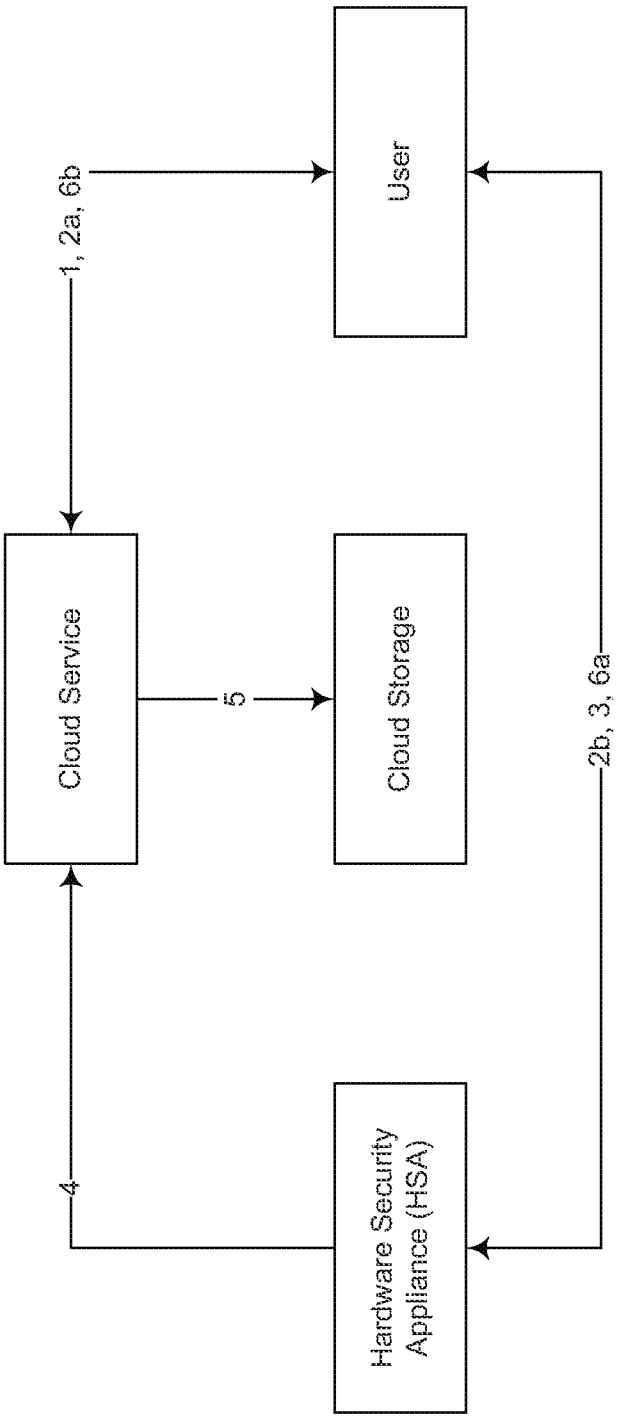
User
1, 2a, 6b
Cloud Service
5
Cloud Storage
2b, 3, 6a
4
Hardware Security Appliance (HSA)

Fig. 4A

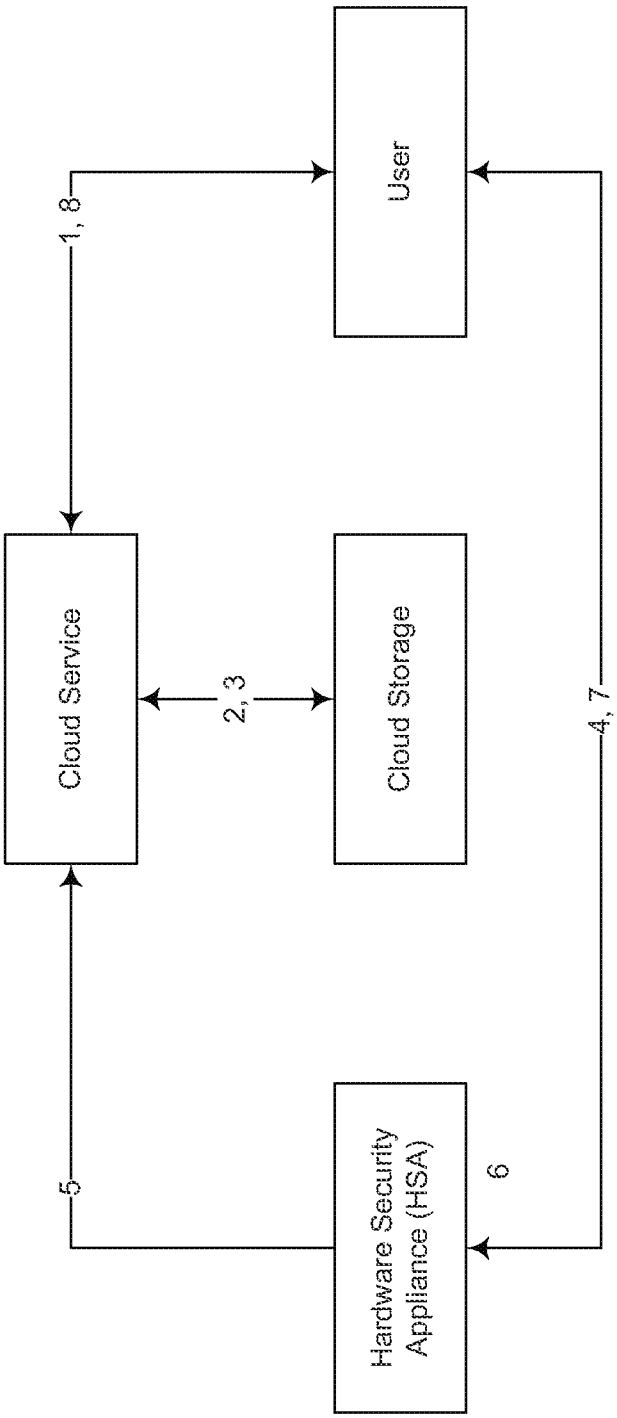
User
1, 8
Cloud Service
2, 3
Cloud Storage
4, 7
5
Hardware Security Appliance (HSA)
6

Fig. 4B

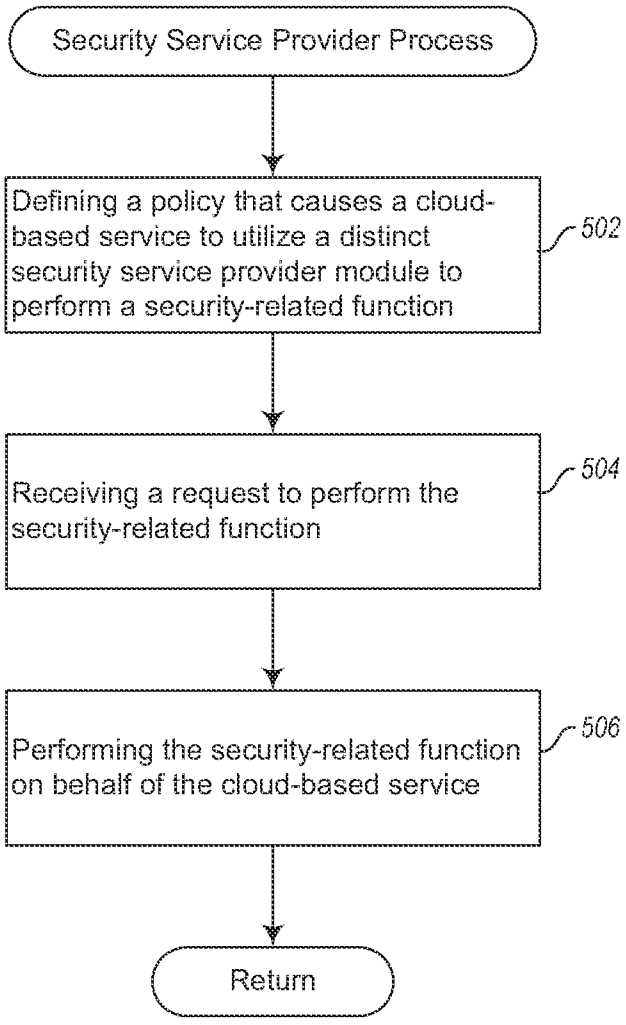
Security Service Provider Process
Defining a policy that causes a cloud-based service to utilize a distinct security service provider module to perform a security-related function
502
Receiving a request to perform the security-related function
504
Performing the security-related function on behalf of the cloud-based service
506
Return

Fig. 5

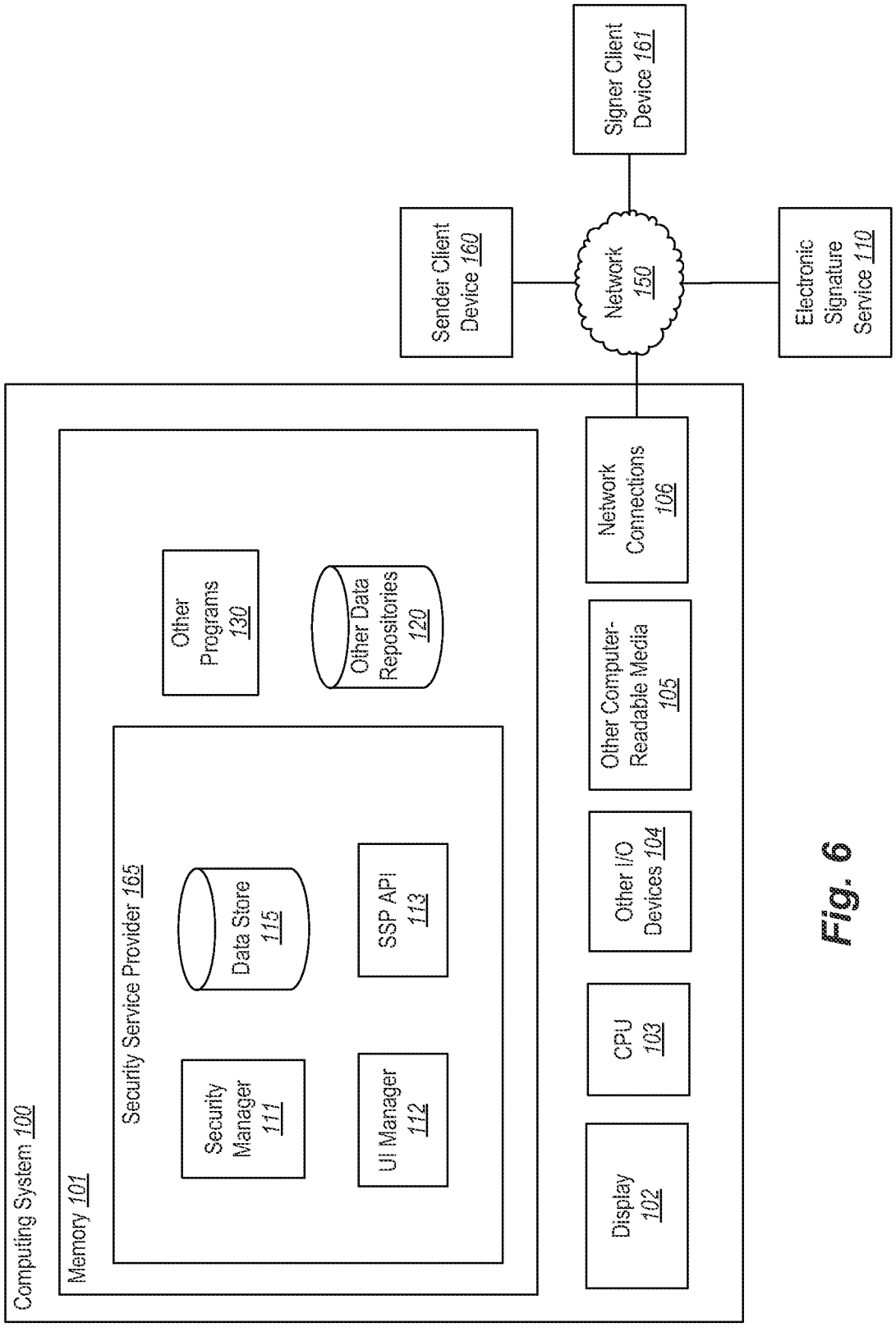
Computing System 100
Memory 101
Security Service Provider 165
Security Manager 111
Data Store 115
UI Manager 112
SSP API 113
Other Programs 130
Other Data Repositories 120
Display 102
CPU 103
Other I/O Devices 104
Other Computer-Readable Media 105
Network Connections 106
Network 150
Sender Client Device 160
Signer Client Device 161
Electronic Signature Service 110

Fig. 6