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(54) **METHOD, APPARATUS, COMPUTER PROGRAM PRODUCT AND ARRANGEMENT FOR TESTING RADIO NETWORK DATA CONNECTION**

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(57) **ABSTRACT**

A method, apparatus, computer program product and arrangement for testing radio network data connections. The method comprises establishing, by means of radio network terminals, simultaneous data connections in accordance with the TCP/IP (Transmission Control Protocol/Internet Protocol) protocol or the UDP/IP (User Datagram Protocol/Internet Protocol) protocol from the host computer to at least one server connected to the radio network. This is performed by establishing beach data connection from the host computer to a different public IP (Internet Protocol) address of the server, and dynamically establishing a dedicated unambiguous route for each data connection, whereby the data connections to different IP addresses travel along different routes via different terminals and their air interfaces. Each established data connection may be measured separately.

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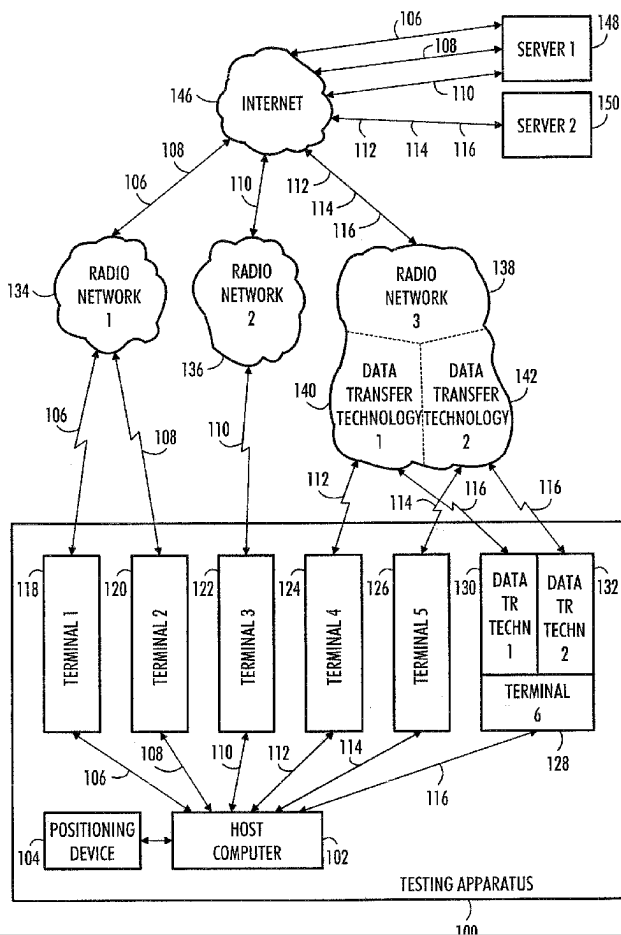
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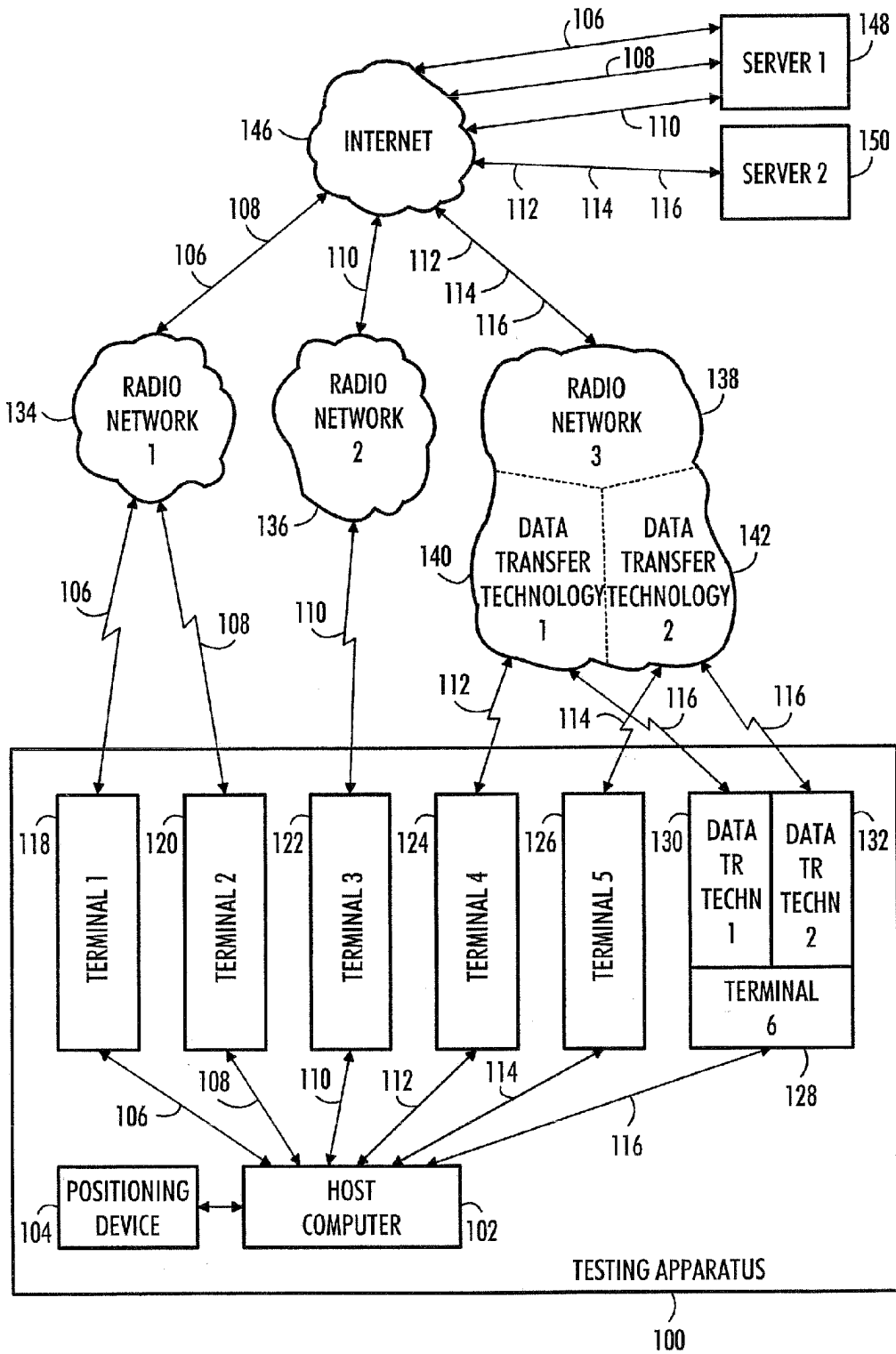


FIG. 1

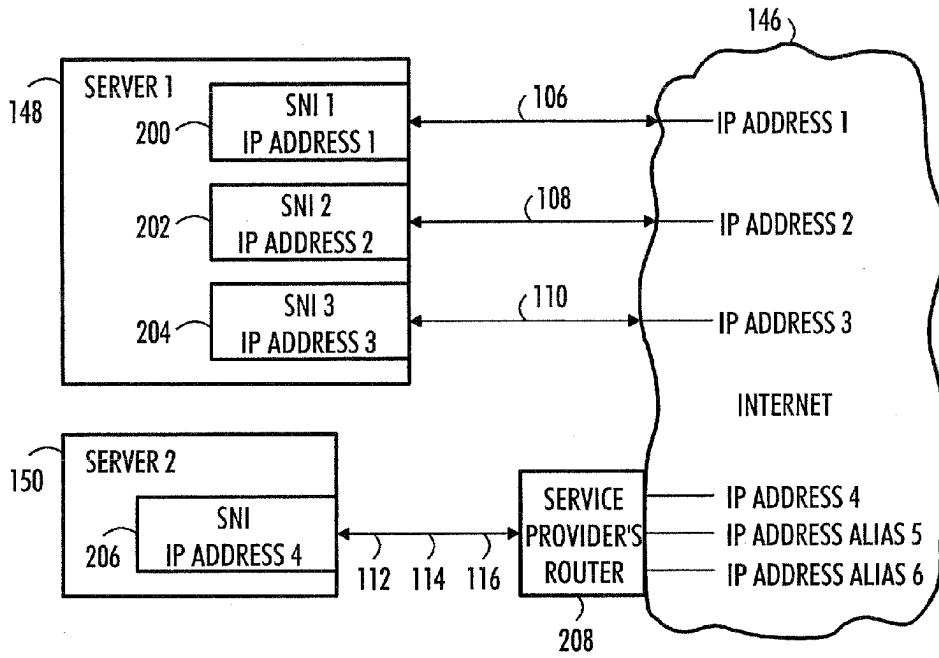


FIG. 2

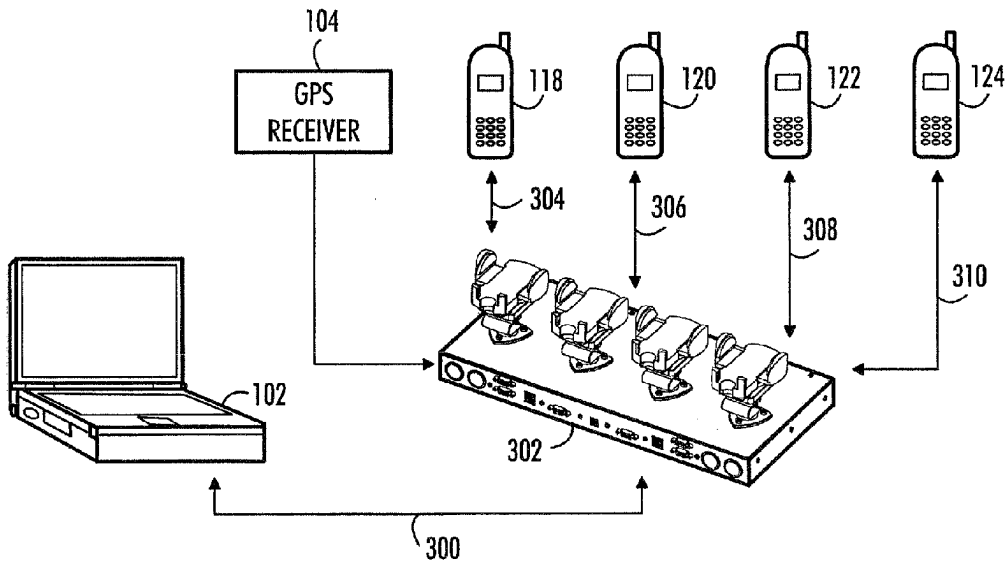


FIG. 3

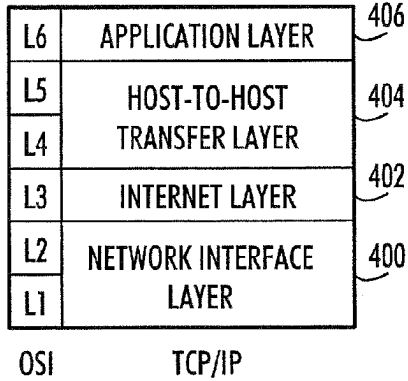


FIG. 4

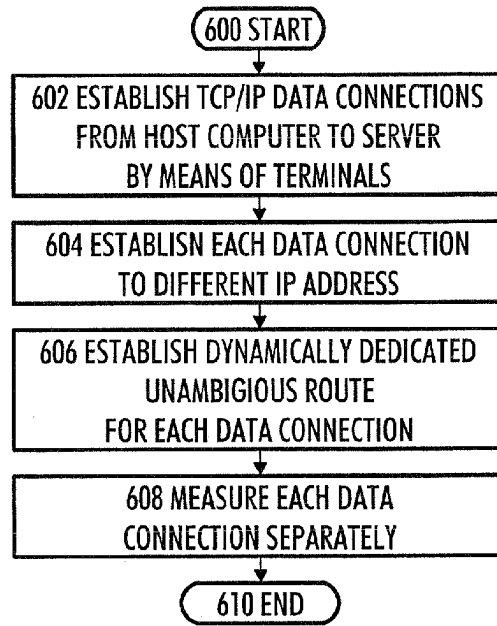


FIG. 6

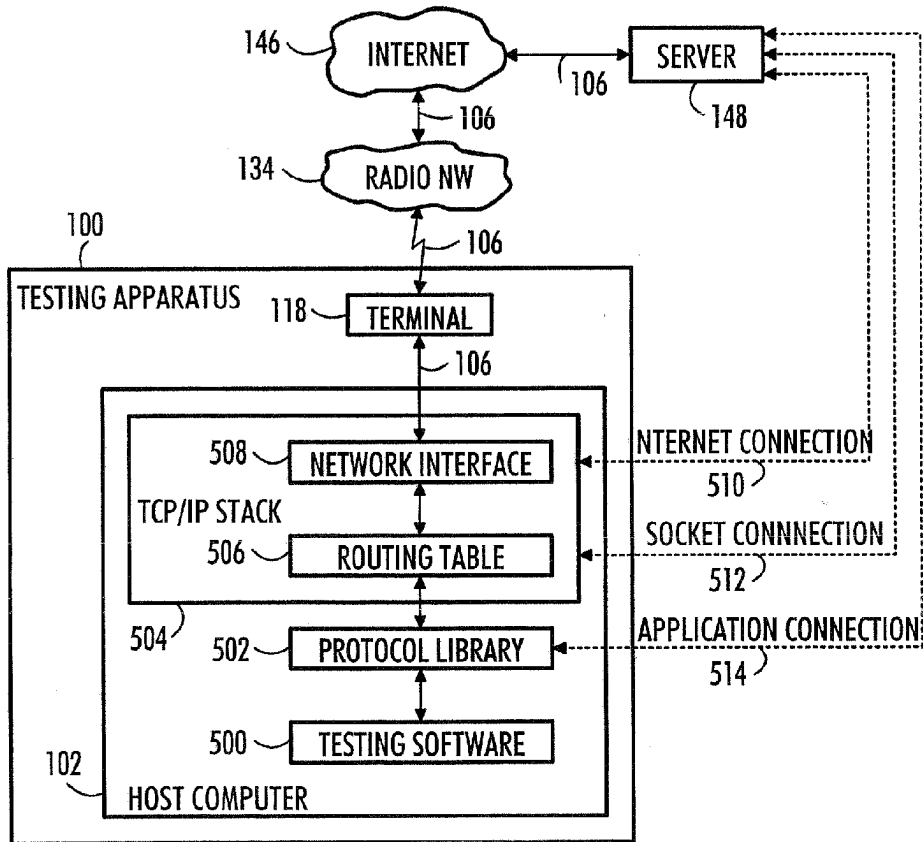


FIG. 5

```

C:\>route print
=====
Interface List
0x1.....MS TCP Loopback interface
0x18000003....00 53 45 00 00 00.....WAN (PPP/SLIP) Interface
=====
Active Routes:
Network Destination    Netmask          Gateway         Interface       Metric
0.0.0.0                0.0.0.0         10.105.136.163 10.105.136.163 1
10.105.136.163        255.255.255.255 127.0.0.1      127.0.0.1      1
10.255.255.255        255.255.255.255 10.105.136.163 10.105.136.163 1
127.0.0.0             255.0.0.0       127.0.0.1      127.0.0.1      1
192.168.254.254       255.255.255.255 10.105.136.163 10.105.136.163 1
224.0.0.0             224.0.0.0       10.105.136.163 10.105.136.163 1
Default Gateway:      10.105.136.163
=====
Persistent Routes:
None

Netmask: 255.255.224.0 11111111.11111111.11100000.00000000
AND
Destination IP: 80.223.161.25 01010000.11011111.10100001.00011001
-----
Result: 80.223.160.0 01010000.11011111.10100000.00000000

Network Destination    Netmask          Gateway         Interface       Metric
80.223.161.25        255.255.255.255 10.105.136.163 10.105.136.163 1

Netmask: 255.255.255.255 11111111.11111111.11111111.11111111
AND
Destination IP: 80.223.161.25 01010000.11011111.10100001.00011001
-----
Result: 80.223.161.25 01010000.11011111.10100001.00011001

=====
Interface List
0x1.....MS TCP Loopback interface
0x18000003....00 53 45 00 00 00.....WAN (PPP/SLIP) Interface
0x19000004....00 53 45 00 00 00.....WAN (PPP/SLIP) Interface
=====
Active Routes:
Network Destination    Netmask          Gateway         Interface       Metric
80.223.161.25        255.255.255.255 10.105.136.163 10.105.136.163 1
80.223.160.29        255.255.255.255 10.105.146.249 10.105.146.249 1
Default Gateway:      10.105.146.249
=====
Persistent Routes:
None

```

FIG. 7

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