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(54) **METHODS SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR THE AUTOMATED DISCOVERY OF A SERVICES MENU**

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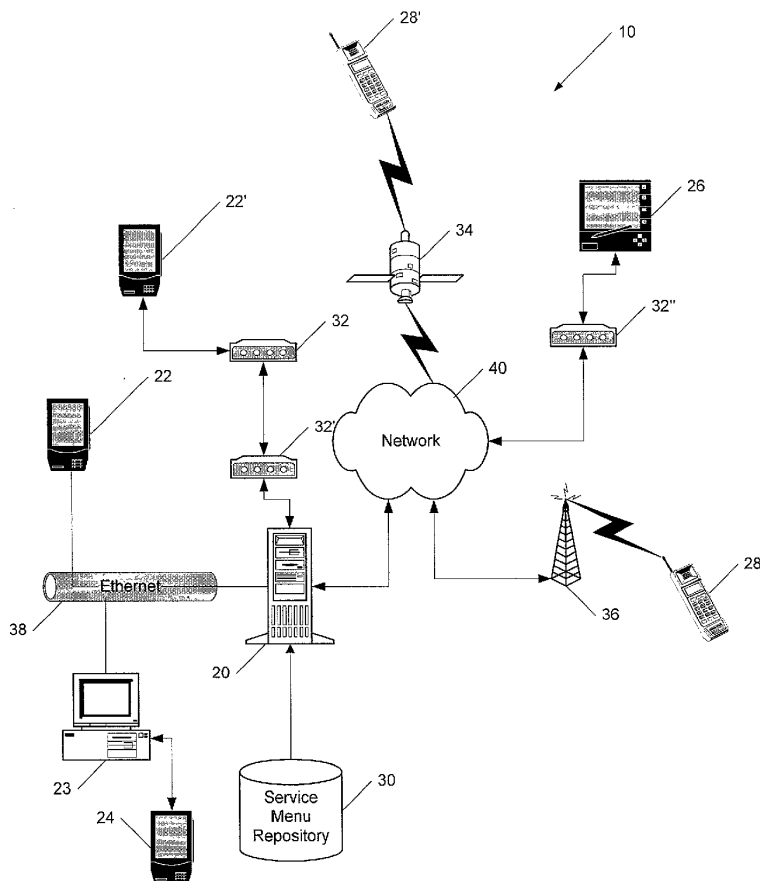(21) Appl. No.: **09/335,375**

(57) **ABSTRACT**

Methods, systems and computer program products are provided for the automated discovery of a services menu of a processing system such as a pervasive computing device by broadcasting to a plurality of devices connected to a network, a Request Services Menu message. The Request Services Menu message provides information about the pervasive computing device broadcasting the message. In response to the broadcast message, a services menu associated with the pervasive computing device is received and provided to a user of the pervasive computing device. The services menu may also be updated by sending a Services Menu Update to the device.

Figure 1

Start

100

No

Connection
to Network?

Yes

102

Generate
message with
device
identification

104

Broadcast
message on
network

106

No

Response
received?

Yes

108

Store received
service menu
and display for
user

End

Figure 2

Start

200

No

Request
Received?

Yes

202

Parse
message for
user and/or
device
information

204

Generate
Service Menu
for user and/or
device

206

Transmit
generated
message to
source of
request

End

Figure 3

Figure 4

Update Menu - Server

300

Menu changed? — No

Yes

302

Get service menu change

304

Add item? — Yes → Incorporate Add operation for item into Service Menu Update message (306)

No

Yes   308

Delete item? — Yes → Incorporate Delete operation for item into Service Menu Update message (310)

No

312

More items?

No

314

Replace menu? — Yes → Generate new service menu and incorporate into Replace operation of Service Menu Update message (316)

No

318

Transmit Service Menu Update message

End

DOCKET ALARM
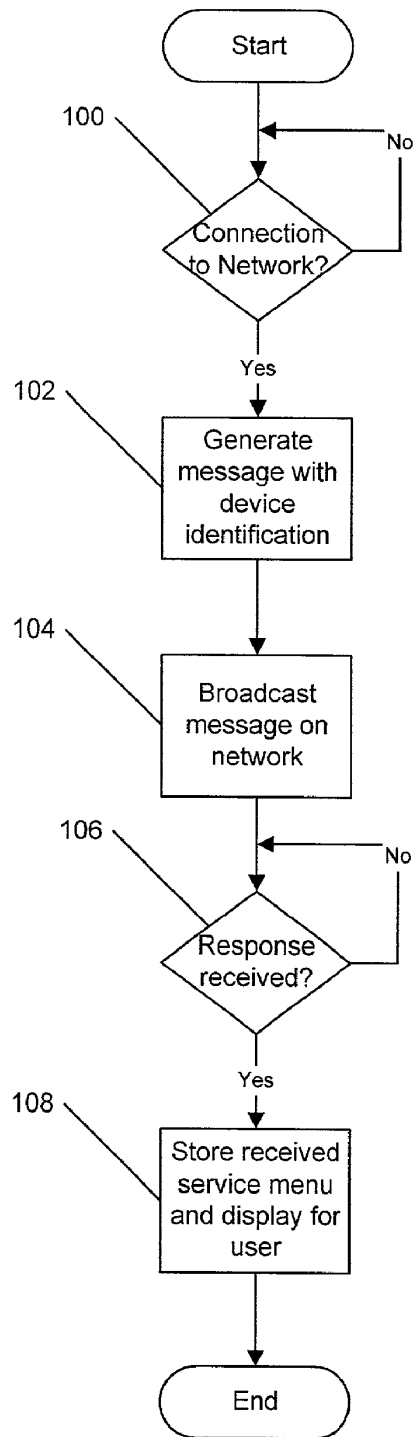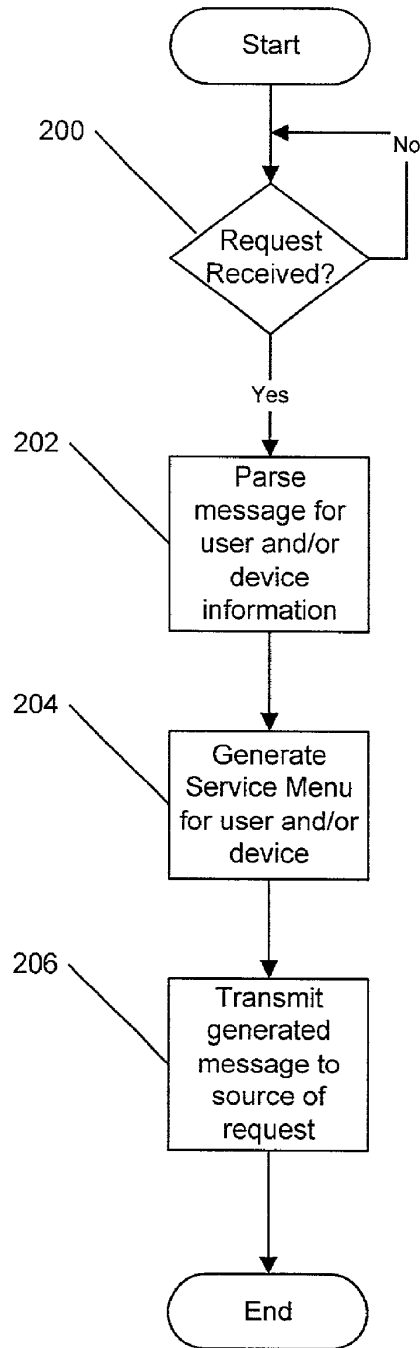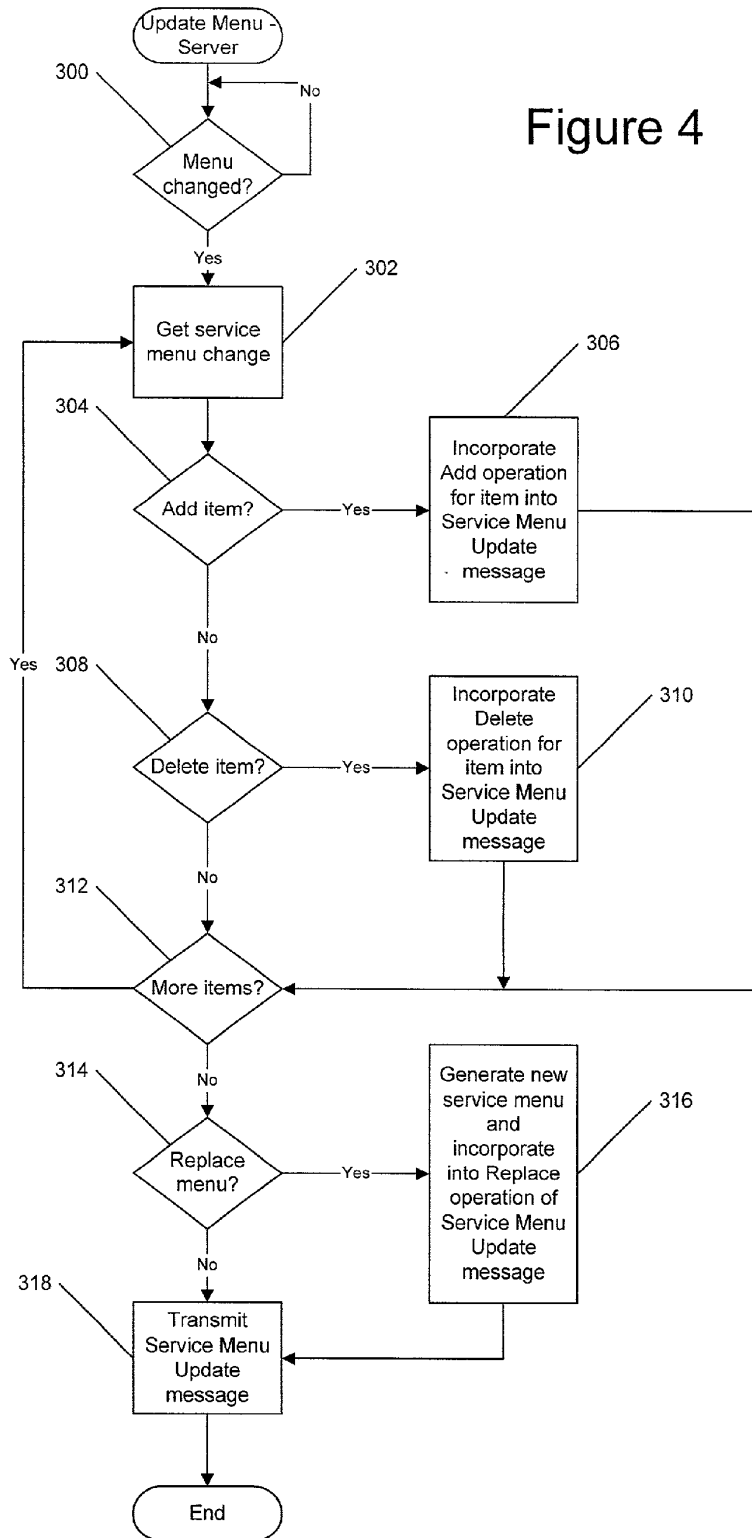
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