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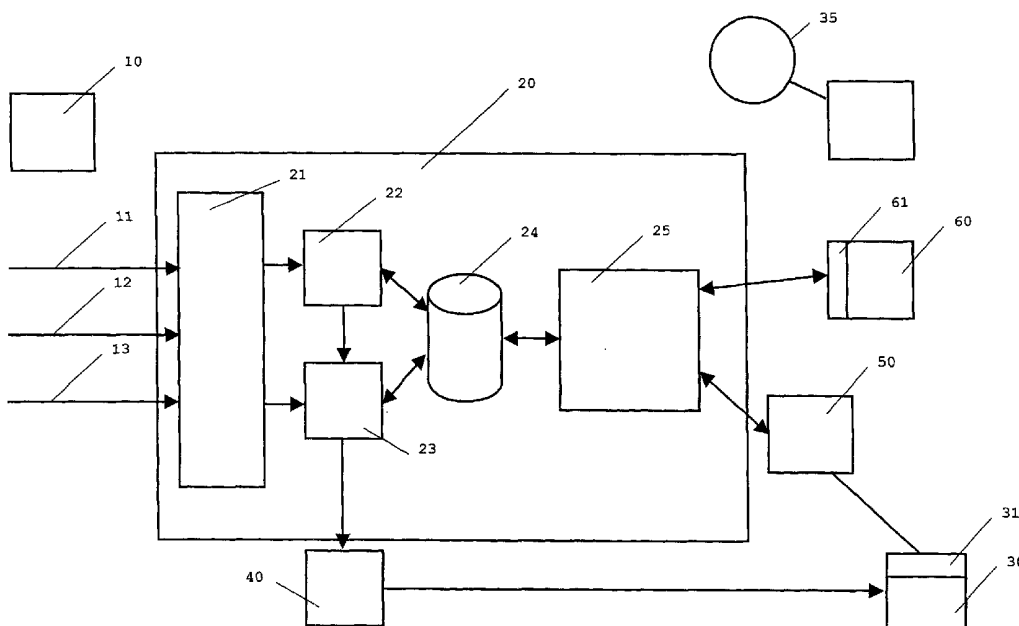
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[Continued on next page]

(54) Title: PERSONALISED ALERTING AND RESPONSE SYSTEM AND METHOD



(57) Abstract: A system for sending text message alerts to users (35) of mobile communication devices (30). Text message contains only summary information and a user can access further information by downloading a personalised response web page which contains links directly to relevant further information. Response web page may be provided by HTML, WAP, iMODE or related technologies. Links followed may be monitored to provide marketing leads. Particularly useful for messages relating to vacancies or properties for sale.

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1 PERSONALISED ALERTING AND RESPONSE SYSTEM AND METHOD

2

3 The present invention relates to a system and method for
4 sending personalised alerts to users via their mobile
5 phone and providing them with means to respond to such
6 alerts.

7

8 Markets such as employment, recruitment, property and
9 motor vehicles sales are time-critical, in that being
10 able to respond to offers in a short space of time
11 increases the individual's chance of achieving their
12 desired end (e.g.- getting a particular job or buying a
13 specific house or car at a specific price). Similarly,
14 products or services with a limited availability are
15 time-critical.

16

17 In such markets, it would therefore provide an advantage
18 to individuals if they were to receive an automatic and
19 almost instant SMS (Short Message Service) text message
20 alert via their mobile phone which provides them with the
21 ability to access further details on products, services
22 or information in which they have a previously specified
23 and registered interest i.e.- the alerts and subsequent
24 information is personalised. It would be a further
25 advantage if a particular individual could then respond
26 to the further detail, e.g. by submitting an offer to

1 purchase property, or submitting a job application. This
2 is particularly important as short messages allow only a
3 limited quantity of text, whereas one might wish to
4 provide a considerable amount of further information
5 which could not be sent in a cost-effective manner nor
6 welcomed by the recipient.

7

8 This system provides benefits to information providers
9 since they can carry out targeted and permission-based
10 marketing, that is to say sending information only to
11 those individuals who have previously shown an interest
12 in a particular product, service or piece of information
13 which the information provider is equipped to provide.

14

15 In the prior art, methods and systems are known which
16 utilise SMS text messages/alerts to disseminate
17 information to individual mobile phone users.

18

19 International Patent Application No 97/41654 provides for
20 the sending of information which is updated at regular
21 intervals in accordance with a profile defined by the
22 mobile phone user. The messages are transmitted at pre-
23 determined times or upon the occurrence of a pre-
24 determined event. The user can also request information
25 at their discretion.

26

27 European Patent Application No 1008946 provides for a
28 mobile device which is equipped with a global positioning
29 system and can be programmed to alert the user when he or
30 she arrives at a pre-determined destination or within a
31 specified range of the destination. Information
32 associated with the location can also be disseminated in
33 response to a user-programmed request.

34

35 International Patent Application No 98/16412 discloses
36 the use of SMS text messages as car alarms. Upon physical
37 damage being inflicted on a car, a pre-programmed message

1 is transmitted to a central messaging server, which then
2 transmits an alarm message to the owner's mobile phone.

3

4 International Patent Application No 99/65256 provides for
5 the delivery of e-mail notifications to digital mobile
6 phones (including information on the e-mail such as who
7 sent it and at what time, for example.) Delivery of the
8 e-mail itself in summarized form is also provided for.

9

10 It is an object of the present invention to provide a
11 system which allows personalised alerts to be
12 automatically sent to mobile phone users, and allows
13 users to subsequently respond by accessing further
14 personalised information.

15

16 It is a further object of the present invention to
17 provide a method by which information providers can gain
18 access to information on potential markets through
19 individuals registering an interest in receiving alerts
20 which are specifically related to the information
21 provider's specific area of operation.

22

23 According to a first aspect of the present invention
24 there is provided a messaging system comprising: a
25 response server constructed to cooperate with a messaging
26 service adapted for sending messages to mobile
27 communication devices associated with users; said
28 messages are selected to be associated with further
29 information meeting criteria particular to a user;
30 wherein said messages comprise summary information
31 associated with further information; and, wherein said
32 response server is adapted to provide a response web page
33 having at least one link therein; said link points to
34 said further information associated with a message sent
35 to a user.

36

37 Preferably, the user is identifiable by the response
38 server and the response web page is personalized.

1
2 Typically, the message comprises the web address of the
3 response web page.

4
5 Preferably, the message is a text message.

6
7 More preferably, the message is a SMS text message.

8
9 The response server may be a WAP gateway.

10
11 The messaging system may be adapted to monitor which
12 links to further information are followed by a user.

13
14 Preferably, the messaging system is adapted to receive
15 summary information from an external information
16 provider.

17
18 More preferably, summary information is received already
19 matched to particular users.

20
21 The messaging system may further comprising a matching
22 engine adapted to select messages associated with summary
23 information or further information meeting criteria
24 relating to a user.

25
26 Preferably, said messaging service comprises a messaging
27 server adapted to initiate sending of said messages.

28
29 Said messaging server may be integral with said response
30 server.

31
32 Said response server may be performed by a computer
33 linked to said messaging server via a data network.

34
35 According to a second aspect of the present invention
36 there is provided a method of providing information to
37 users having mobile communications devices, the method
38 comprising the steps of: obtaining summary information

1 matched to at least one user according to criteria;
2 sending a message to a mobile communication device
3 associated with said user, said message comprising said
4 summary information; and providing a response web page
5 comprising at least one link to further information
6 associated with said message.

7

8 Preferably, the method further comprises the step of
9 receiving summary information from an external
10 information provider.

11

12 More preferably, said summary information is received
13 already matched to particular users.

14

15 Said summary information may be matched to particular
16 users by a matching engine.

17

18 Typically, said criteria are specified by a user.

19

20 The method may further comprise the steps of identifying
21 the user and personalising the link page.

22

23 The message may further comprise the web address of the
24 response web address.

25

26 Preferably, the message is a text message.

27

28 More preferably, the message is a SMS text message.

29

30 Said message may be a voice message.

31

32 Said summary information may comprise text, and the
33 method may further comprise the step of converting said
34 text into speech for delivery as a voice message.

35

36 The web server may be a WAP server.

37

1 The method may further comprise the step of monitoring
2 which links are followed by a particular user.

3

4 According to a third aspect of the present invention
5 there is provided a method of providing marketing leads
6 comprising the steps of: providing information to users
7 having mobile communications devices by: matching
8 information to users according to criteria; sending a
9 message to a user's mobile communication device, said
10 message comprising summary information; providing a web
11 page comprising at least one link to further information
12 associated with each message supplied to a user; and,
13 monitoring which links are followed by a user.

14

15 The method may further comprise the step of notifying the
16 supplier or the information provider.

17

18 The method may further comprise the step of recording the
19 transaction of notifying the supplier or the information
20 provider.

21

22 The method may further comprise the step of sending an
23 email to the supplier or the information provider.

24

25 According to a fourth aspect of the present invention
26 there is provided computer software which, when loaded
27 onto a computer, enables it to perform as the messaging
28 system of the first aspect.

29

30 According to a fifth aspect of the present invention
31 there is provided computer software comprising a web page
32 being the link page of the first aspect.

33

34 According to a sixth aspect of the present invention
35 there is provided a messaging system comprising: a
36 messaging server adapted to initiate sending messages to
37 mobile communication devices associated with users; said
38 messages comprise summary information associated with

1 further information, and are selected to be associated
2 with further information meeting criteria particular to a
3 user; and, a response server comprising a response web
4 page having at least one link therein, which points to
5 said further information associated with a message sent
6 to a user.

7

8 Preferably, the user is identifiable by the response
9 server and the response web page is personalized.

10

11 The message may also comprise the web address of the
12 response web page.

13

14 Preferably, the message is a text message.

15

16 More preferably, the message is a SMS text message.

17

18 The response server may be a WAP gateway.

19

20 The messaging system may be adapted to monitor which
21 links to further information are followed by a user.

22

23 The messaging system may be adapted to receive summary
24 information from an external information provider.

25

26 Preferably, summary information is received already
27 matched to particular users.

28

29 The messaging system may further comprise a matching
30 engine adapted to select messages associated with summary
31 information or further information meeting criteria
32 relating to a user.

33

34 In order to provide a better understanding of the present
35 invention an example will now be described by way of
36 example only, and with reference to the accompanying
37 Figures, in which :

38

1 Figure 1 illustrates the interaction between information
2 providers, the server and the user's mobile communication
3 device;

4

5 Figure 2 illustrates the detail of the physical
6 architecture of the system;

7

8 Figure 3 illustrates an example of a text message sent to
9 a user; and

10

11 Figure 4 shows a links page personalised to a user.

12

13 Referring firstly to Figure 1, information provider 10
14 supplies server 20 with summarised information for
15 selective transmission to users 35 of mobile
16 communication devices 30. Information may pertain to
17 products or services or any other items of interest, such
18 as news stories. A function of the system as a whole is
19 to provide information to individual users 35 which meets
20 a user's predefined criteria.

21

22 For example, users might require information about houses
23 for sales, selected to be in a particular price range,
24 have a particular number of rooms, be in a particular
25 location etc. In another example, users might wish
26 information concerning job opportunities or a specified
27 type in a particular location, with a particular salary.
28 Typically, a user will initially be sent summary
29 information only.

30

31 In the preferred embodiment, information is transmitted
32 to the server 20 already matched to a particular user or
33 users 35. However, in an alternative embodiment,
34 information is transmitted to the server 20 in an
35 unmatched form and the server 20 selectively matches
36 particular information with particular users 35 as
37 described below according to a user's predefined
38 criteria.

1

2 The server 20 sends an alert message 45 to the user's
3 mobile communications device 30 notifying them of the
4 information of pre-stated interest to them and sending
5 them summary information. With reference to Figure 3,
6 the alert message 45 is preferably a text message;
7 alternatively it might be a voice message, video message
8 or mixed-media message. In the preferred embodiment it
9 is a GSM Short Text Message (SMS). Another embodiment
10 uses WAP PUSH technology. Another embodiment uses iMode.

11

12 In general, various forms of wireless text messaging may
13 be used. Wireless text messaging is the provision over
14 a telecommunications network to a wireless mobile
15 communications device of a message comprising text. It
16 therefore involves substantially less data being
17 transferred than in a live voice call and various text
18 messaging formats can be selected and used with different
19 telecommunications systems. Additional examples include
20 cell phone text messaging and pager text messaging.

21

22 The user 35 can respond to the alert message and access
23 further information on the relevant product, service,
24 opportunity, etc. This may be achieved by providing the
25 user with a telephone number which accesses the desired
26 information in pre-recorded form or by talking to a
27 consultant. Preferably, however, further information is
28 provided via a response web site operably connected to
29 the messaging server 20 which contains further
30 information, or provides links or bookmarks to further
31 information on the information provider's web site.

32

33 In the preferred embodiment, the response web site is a
34 WAP portal which also provides links to the further
35 information. The response web site may comprise one or
36 more servers adapted to serve wireless and other portable
37 mobile devices as well as provide HTML web pages. In a
38 preferred embodiment, an HTML web server and a server

1 supporting the WAP communications protocol are separate
2 devices. The alert messages may include the address of
3 the response web site, as a link or otherwise.

4

5 The response web site comprises web pages 110 including
6 links to further information related to the summary
7 information provided in each message and is described
8 further below. Importantly, the page is personalised to
9 each user or a group of users, and the links are directed
10 to relevant further information directly, rather than
11 simply linking to home pages belonging to individual
12 firms.

13

14 Mobile communications devices 30 are typically mobile
15 telephones, such as GSM, GPRS or future mobile
16 telecommunications formats. The messaging server 20 is
17 typically a web server which communicates with the
18 information provider 10 by HTTP, although alternative
19 communications means may be selected by one skilled in
20 the art. The messaging server functionality can be
21 readily implemented by one skilled in the art in an
22 industry standard development environment and the HTTP
23 servers can be implemented with, for example, APACHE™, or
24 other similar servers. A Java™ application web server may
25 be developed using e.g. TOMCAT™ or iPLANET™.

26

27 With reference to Figure 2, information provider 10 sends
28 information feeds in one of a variety of formats, usually
29 over the internet. These feeds 11, 12, 13 are processed
30 by a feed processor 21 which preferably incorporates an
31 HTTP server.

32

33 In the preferred embodiment, an information feed 12, 13
34 is supplied prematched to individual users 35. This can
35 be accomplished in XML 12 or as a "flat file" structure
36 13. In this case a matching engine is preferably
37 maintained by the information provider.

38

1 In alternative embodiments, information 11 is sent to the
2 server feed processor 21 without having been previously
3 matched to particular users 35 and in XML format, which
4 can readily be adapted to any internal format by means
5 standard in the art. Information is sent separately or
6 together relating to a user's criteria. A matching
7 engine 22 then establishes which user's criteria fits the
8 information, for example by comparing properties of the
9 information in turn against a list of user criteria by
10 standard database query techniques, and selecting the
11 user or users that are to receive the associated message.

12
13 The system also requires user information such as names
14 101, mobile telephone numbers, preferences etc. This
15 information can be either stored separately in the server
16 20 or supplied along with prematched information 12, 13
17 by the information provider 20. Users may register their
18 details and criteria on the relevant information provider
19 sign-up web site, on the system's server 20, or by any
20 other convenient means. The user also authorises the
21 information provider to send them SMS text messages
22 relevant to their chosen criteria via the system's
23 server.

24
25 In an embodiment where information is not provided
26 prematched, the server 20 maintains a database 24 of the
27 Information Feeds received from information providers.
28 When product/service information within database 24
29 matches registered user criteria, Matching Engine 22
30 detects this and generates SMS text message alerts as
31 appropriate. These alerts are then sent to the user 35
32 via messaging server 23, typically a server adapted to
33 send SMS messages to the user's mobile communication
34 device 30 through communication with Short Message
35 Service Centre 40. Messages may alternatively be in the
36 form of e-mail with summary information sent, for
37 example, as a simple or text only e-mail.

1 The user 35 can then respond to an alert by several
2 means. They might respond by telephone using a telephone
3 number provided within the body of the text message, but
4 will preferably access a web browser 61 on e.g. a
5 personal computer 60 or will use a mobile browser such as
6 a WAP browser 31 on their mobile communication device 30.
7 The system further comprises a response server 25 which
8 can communicate with a web browser 61 in HTML, a WAP
9 browser 31 in WML or can be adapted to cooperate with
10 other networking protocols.

11

12 With reference to Figure 4, an important feature is that
13 each user 35 is thereby presented with a personalised
14 response web page 110. The user 35 may access this
15 personalised response web page 110 by signing in through
16 the internet using their mobile phone number and a secret
17 personal identification password. Instead of signing in
18 each time, it is preferred that the user be immediately
19 recognised by use of automatic password entry, cookies,
20 caller line identification or other known identification
21 system.

22

23 The response web page 110 is prepared on request by the
24 response server 25 in accordance with information stored
25 in the central database 24 and personalised to the
26 particular user. The web page 110 may show a user
27 identifier 101 and contains summaries or copies 102 of
28 the alert messages that have been recently sent to the
29 particular user. Summaries or copies 102 have one or
30 more links 103 associated therewith, the links pointing
31 to further information. The links may be directed to web
32 sites belonging to the information provider 10 or third
33 party web sites. In particular, the links may point to
34 specific pages relating to the specific information, e.g.
35 a page dealing with a specific house or job and not just
36 to introductory pages e.g. the home page of an estate
37 agents or recruitment consultants.

38

1 Additional exchanges of information may take place after
2 the user has accessed the further information, such as a
3 purchase transaction or the submission of a job
4 application or offer to buy property.

5
6 In response to a user selecting a link from a
7 personalised response web page 110, the messaging server
8 notifies information providers that a user has accessed
9 the further information by following the link, and thus
10 become a potential buyer, employee, bidder, etc. This
11 allows the information provider to be proactive in making
12 contact with the user who has a pre-stated interest in
13 their goods or services and can readily be accomplished
14 by techniques known in the field of online advertising.
15 The messaging server records the transaction of notifying
16 the information provider.

17
18 Another advantage of the present invention is that there
19 is provided a means for mobile phone users to receive
20 personalised alerts, but unlike the prior art in the area
21 of SMS text message alerting, the system also provides
22 them with means to respond to the alert and access
23 further information through a personalised response web
24 page 110.

25
26 By sending summary information only as short alerts,
27 users 35 can be kept informed of relevant information,
28 while minimizing the cost of sending a large amount of
29 further information immediately to the user 35.

30
31 Further advantages of the system are provided to system
32 users by saving time that would otherwise be spent
33 hunting for a product, service or for information which
34 is of particular interest to them, by being automatically
35 alerted to the availability of such items and
36 information. Users are then able to quickly and easily
37 respond to the alert by accessing relevant further
38 information. This more detailed information facilitates

1 the making of a timely and convenient informed decision
2 by the user, regardless of time or location.

3
4 The system is highly focused and targeted, as a user is
5 only notified of products/services which match his/her
6 own particular pre-defined requirements. This targeting
7 provides the user with an incentive to visit information
8 provider's web sites and use their services or buy their
9 products.

10
11 The system provides further advantages to information
12 providers as it allows their agents to focus their time
13 on potential markets and individual consumers who have a
14 previously stated interest in the offered product,
15 service or information.

16
17 Further modification and improvements may be added
18 without departing from the scope of the invention herein
19 intended.

20

1 Claims

2

3 1. A messaging system comprising: a response server
4 constructed to cooperate with a messaging service
5 adapted for sending messages to mobile communication
6 devices associated with users; said messages are
7 selected to be associated with further information
8 meeting criteria particular to a user;
9 wherein said messages comprise summary information
10 associated with further information; and, wherein said
11 response server is adapted to provide a response web
12 page having at least one link therein; said link
13 points to said further information associated with a
14 message sent to a user.

15

16 2. The messaging system of any previous claim wherein the
17 user is identifiable by the response server and the
18 response web page is personalized.

19

20 3. The messaging system of any previous claim wherein the
21 message comprises the web address of the response web
22 page.

23

24 4. The messaging system of any previous claim wherein the
25 message is a text message.

26

27 5. The messaging system of claim 4 wherein the message is
28 a SMS text message.

29

30 6. The messaging system of any previous claim wherein the
31 response server is a WAP gateway.

32

33 7. The messaging system of any previous claim adapted to
34 monitor which links to further information are
35 followed by a user.

36

- 1 8. The messaging system of any previous claim adapted to
2 receive summary information from an external
3 information provider.
4
- 5 9. The messaging system of claim 8 wherein summary
6 information is received already matched to particular
7 users.
8
- 9 10. The messaging system of any previous claim further
10 comprising a matching engine adapted to select
11 messages associated with summary information or
12 further information meeting criteria relating to a
13 user.
14
- 15 11. The messaging system of any previous claim wherein
16 said messaging service comprises a messaging server
17 adapted to initiate sending of said messages.
18
- 19 12. The messaging system of claim 11 wherein said
20 messaging server is integral with said response
21 server.
22
- 23 13. The messaging system of claim 11 wherein said
24 response server is performed by a computer linked to
25 said messaging server via a data network.
26
- 27 14. A method of providing information to users having
28 mobile communications devices, the method comprising
29 the steps of: obtaining summary information matched to
30 at least one user according to criteria; sending a
31 message to a mobile communication device associated
32 with said user, said message comprising said summary
33 information; and providing a response web page
34 comprising at least one link to further information
35 associated with said message.
36

- 1 15. The method of claim 14 comprising the step of
2 receiving summary information from an external
3 information provider.
4
- 5 16. The method of claim 15 wherein said summary
6 information is received already matched to particular
7 users.
8
- 9 17. The method of any of claims 14 to 16 wherein said
10 summary information is matched to particular users by
11 a matching engine.
12
- 13 18. The method of any of claims 14 to 17 wherein said
14 criteria are specified by a user.
15
- 16 19. The method of any of claims 14 to 18 wherein the user
17 is identified and the link page is personalized.
18
- 19 20. The method of any of claims 14 to 19 wherein the
20 message comprises the web address of the response web
21 address.
22
- 23 21. The method of any of claims 14 to 20 wherein the
24 message is a text message.
25
- 26 22. The method of claim 21 wherein the text message is a
27 SMS text message.
28
- 29 23. The method of any of claims 14 to 20 wherein said
30 message is a voice message.
31
- 32 24. The method of claim 23 wherein said summary
33 information comprises text, and wherein the method
34 further comprises the step of converting said text
35 into speech for delivery as a voice message.
36
- 37 25. The method of any of claims 14 to 24 wherein the web
38 server is a WAP server.

- 1
2 26. The method of any of claims 14 to 25 further
3 comprising the step of monitoring which links are
4 followed by a particular user.
5
- 6 27. A method of providing marketing leads comprising the
7 steps of: providing information to users having mobile
8 communications devices by: matching information to
9 users according to criteria; sending a message to a
10 user's mobile communication device, said message
11 comprising summary information; providing a web page
12 comprising at least one link to further information
13 associated with each message supplied to a user; and,
14 monitoring which links are followed by a user.
15
- 16 28. The method of claim 27 further comprising the step of
17 notifying the supplier or the information provider.
18
- 19 29. The method of claim 28 further comprising the step
20 of recording the transaction of notifying the
21 supplier or the information provider.
22
- 23 30. The method of any of claims 27 to 29 further
24 comprising the step of sending an email to the
25 supplier or the information provider.
26
- 27 31. Computer software which when loaded onto a computer
28 enables it to perform as the messaging system of any
29 of claims 1 to 13.
30
- 31 32. Computer software comprising a web page being the
32 link page of any of claims 1 to 13.
33
- 34 33. A messaging system comprising: a messaging server
35 adapted to initiate sending messages to mobile
36 communication devices associated with users; said
37 messages comprise summary information associated with
38 further information, and are selected to be associated

1 with further information meeting criteria particular
2 to a user; and, a response server comprising a
3 response web page having at least one link therein,
4 which points to said further information associated
5 with a message sent to a user.

6

7 34. The messaging system of claim 33 wherein the user is
8 identifiable by the response server and the response
9 web page is personalized.

10

11 35. The messaging system of any of claims 33 to 34
12 wherein the message comprises the web address of the
13 response web page.

14

15 36. The messaging system of any of claims 33 to 35
16 wherein the message is a text message.

17

18 37. The messaging system of claim 36 wherein the text
19 message is a SMS text message.

20

21 38. The messaging system of any of claims 33 to 37
22 wherein the response server is a WAP gateway.

23

24 39. The messaging system of any of claims 33 to 38
25 adapted to monitor which links to further information
26 are followed by a user.

27

28 40. The messaging system of any of claims 33 to 39
29 adapted to receive summary information from an
30 external information provider.

31

32 41. The messaging system of claim 40 wherein summary
33 information is received already matched to particular
34 users.

35

36 42. The messaging system of any of claims 33 to 41
37 further comprising a matching engine adapted to select
38 messages associated with summary information or

1 further information meeting criteria relating to a
2 user.

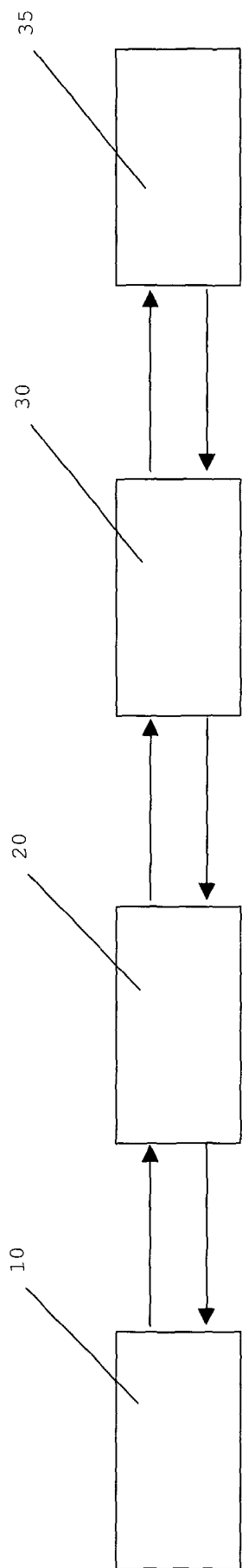


Figure 1

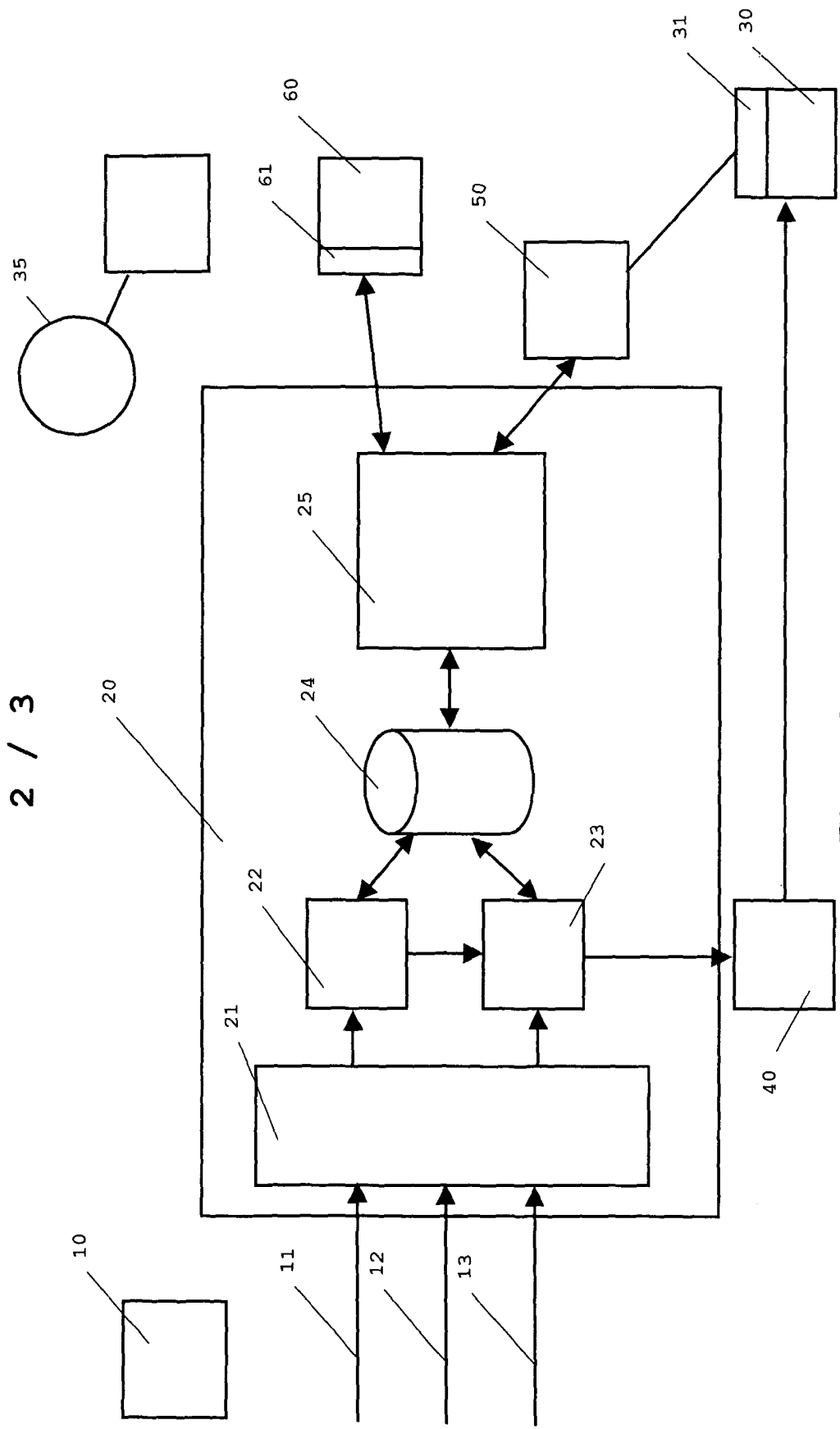


Figure 2

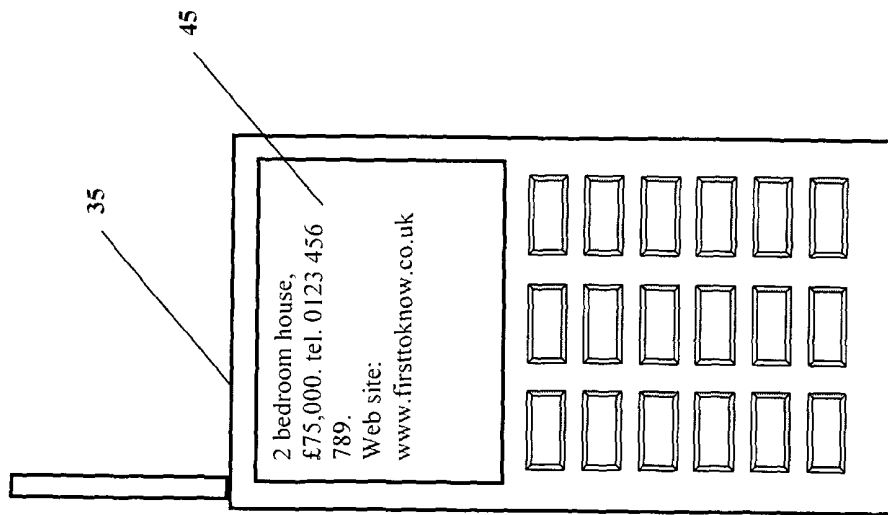


Figure 3

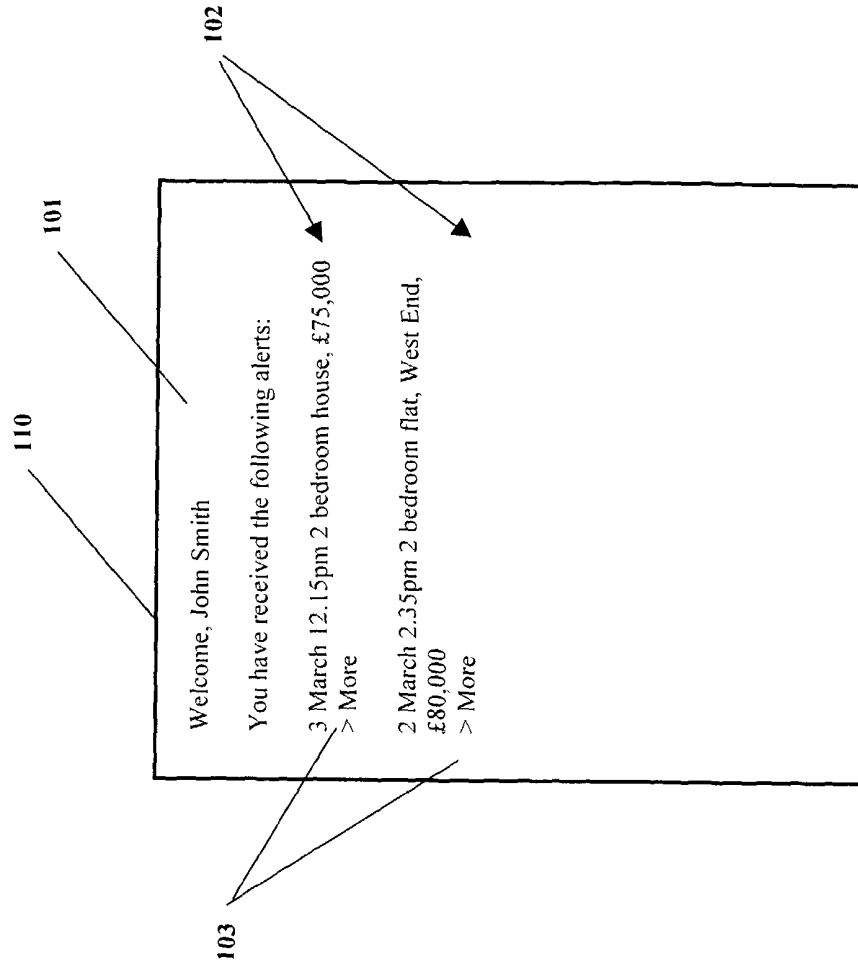


Figure 4