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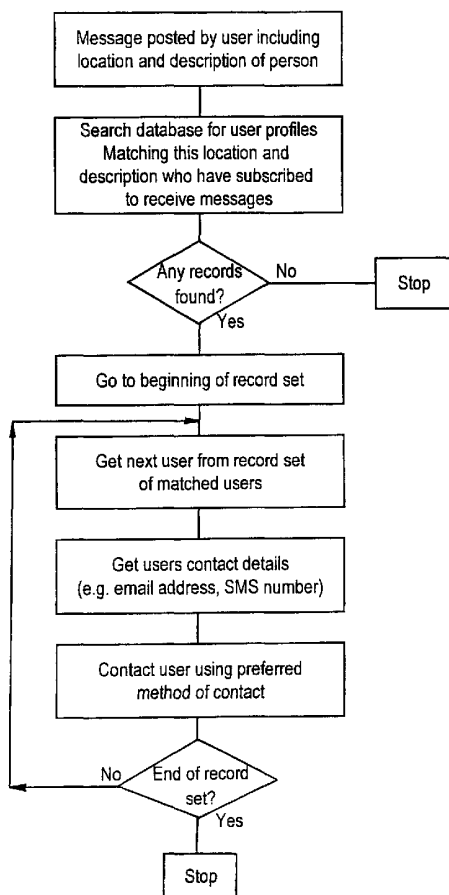
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[Continued on next page]

(54) Title: MESSAGING SYSTEM



(57) Abstract: A messaging system allows people (senders) to send message to others (recipients) whom they have seen, using only a description of the recipient and information about the time and place where they were seen. Typically, text and/or multimedia messages will be sent from the senders mobile telephone (3) to the mobile telephone of one or more potential recipients (4) via a central message pushing system (1) which identifies potential recipient using a dynamically updatable database (2) of members details.

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1   **Messaging System**

2

3   The invention relates to the general field of sending  
4   messages from one person to another, and more  
5   specifically to messaging methodology and hardware for  
6   use as an introduction/dating system. In particular, the  
7   invention enables a person to send a message to another  
8   person, without having to know specifically who they are.

9

10   **Background of the invention**

11

12   At the present time several magazines run a dating column  
13   where a person may leave a message for an unknown person  
14   whom they have seen or encountered, in the hope that said  
15   person will see the message and respond to them. This  
16   system is unsatisfactory because of the low probability  
17   that the person to whom they wish to send the message  
18   would see the message, the low probability that they  
19   would be able to recognise that it was themselves for  
20   whom it was intended and the fact that because they would  
21   not see it until some time after the chance meeting, they  
22   are less likely to want to respond.

23

1 The aim of the present invention is to allow a person to  
2 send a message to a stranger whom they encounter.  
3 Typically, they will send an e-mail or short text message  
4 from their own mobile telephone.

5

6 The invention aims to enable that message to reach the  
7 intended person and preferably to allow them to respond  
8 in a fun, safe and convenient fashion.

9

10 **Brief summary of the invention**

11

12 The invention provides a new system, allowing people to  
13 send messages to other people who they have met in a  
14 chance encounter and whose conventional contact details  
15 (name, address, phone number, e-mail address etc.) they  
16 do not have.

17

18 According to the present invention there is provided a  
19 message pushing system for sending messages to  
20 recipients, the system comprising a database of details  
21 of individual potential recipients, telecommunications  
22 links for communicating with message sending and message  
23 receiving devices, the message pushing system being  
24 adapted to receive a message from a message sending  
25 means, the message comprising details of the intended  
26 recipient of the message, wherein the message pushing  
27 system compares the details of the intended recipient of  
28 the message with the database of potential recipient's  
29 details thereby establishing one or more members who may  
30 be the intended recipient, the message pushing system  
31 being adapted to transmit said message to the message  
32 receiving means of the one or more members who may be the  
33 intended recipient.

1

2 Preferably, the details of individual potential  
3 recipients include details of the individual's physical  
4 appearance. The details may be selected from a list  
5 comprising their sex, their hair length and colour, their  
6 eye colour, their age, their skin colour, their height,  
7 and their clothing.

8

9 Preferably, the database will also include the e-mail  
10 address, mobile telephone number, name, address or other  
11 contact details of individual potential recipients.

12

13 Preferably also, the database will also include locations  
14 where the potential recipient may be. The database may  
15 also contain the current location of the recipient. The  
16 database may also maintain a list of previous locations.

17

18 Preferably also, the message pushing system is adapted to  
19 allow potential recipients to update their details. This  
20 may be done automatically. Typically, potential  
21 recipients will update their details using their message  
22 sending means.

23

24 Preferably, the message pushing system allow messages to  
25 be delivered to recipients without the sender of the  
26 message knowing who the recipient is.

27

28 Typically, the comparison between the details of the  
29 potential recipient and member's details on the database  
30 does not need to be exact.

31

1 The database may also include information about how close  
2 a match between details is required for that message to  
3 be sent to that potential recipient.

4

5 The message sending means and message receiving means may  
6 be the same devices.

7

8 Typically, the message sending means and message  
9 receiving means will be mobile telephones using SMS, WAP  
10 or I-MODE.

11

12 The telecommunications links may comprise the internet.

13

14 The message may comprise one of an e-mail, a text  
15 message, a visual message or a multi-media message.

16

17 When transmitting the message to the message receiving  
18 means, the message pushing system may or may not send the  
19 description of the intended recipient of the message  
20 along with the rest of the message.

21

22 The database may be a relational database.

23

24 The message may be transmitted to the recipient only on  
25 request from the recipient. A web site may be used to  
26 display the message.

27

28 According to the second aspect of the present invention  
29 there is provided a messaging system comprising a message  
30 pushing system according to the first aspect of the  
31 present invention and a plurality of message sending and  
32 message receiving means, adapted to send messages to and  
33 receive message from the message pushing system.

1

2 According to a third aspect of the present invention  
3 there is provided a method of transmitting a message to  
4 one or more recipients, the method comprising the steps  
5 of:

6 (a) creating a database of details of the appearance  
7 and location of individual potential recipients for  
8 messages;

9 (b) receiving messages including details of the  
10 appearance and location of the intended recipient  
11 for a message;

12 (c) comparing the details of the appearance and  
13 location of the intended recipient with the details  
14 stored in the database, thereby identifying one or  
15 more possible intended recipients.

16

17 Preferably, the method further comprises the step of  
18 sending the message to message receiving means belonging  
19 to the possible intended recipients.

20

21 Preferably, the details of individual potential  
22 recipients include details of the individual's physical  
23 appearance. The details may be selected from a list  
24 comprising their sex, their hair length and colour, their  
25 eye colour, their age, their skin colour, their height,  
26 and their clothing.

27

28 Preferably, the database will also include the e-mail  
29 address, mobile telephone number, name, address or other  
30 contact details of individual potential recipients.

31

1 Preferably also, the database will also include locations  
2 where the potential recipient may be. The database may  
3 also maintain a list of previous locations.

4

5 The database may also include information about how close  
6 a match between details is required for that message to  
7 be sent to that potential recipient.

8

9 Preferably also, the message pushing system is adapted to  
10 allow potential recipients to update their details. This  
11 may be done automatically. Typically, potential  
12 recipients will update their details using a message  
13 sending means.

14

15 Preferably, the message pushing system allow messages to  
16 be delivered to recipients without the sender of the  
17 message knowing who the recipient is.

18

19 Typically, the comparison between the details of the  
20 potential recipient and member's details on the database  
21 does not need to be exact.

22

23 The message sending means and message receiving means may  
24 be the same devices.

25

26 Typically, the message sending means and message  
27 receiving means will be mobile telephones using SMS, WAP  
28 or I-MODE.

29

30 The telecommunications links may comprise the internet.

31

32 The message may comprise one of an e-mail, a text  
33 message, a visual message or a multi-media message.



1  
2 When transmitting the message to the message receiving  
3 means, the message pushing system may or may not send the  
4 description of the intended recipient of the message  
5 along with the rest of the message.

6  
7 The database may be a relational database.

8  
9 **Brief description of the several views of the drawings**

10  
11 The present invention will be illustrated with reference  
12 to the following Figures in which:

13  
14 Figure 1 which shows a block diagram of components  
15 of the message pushing system; and

16  
17 Figure 2 shows a flow chart of the message pushing  
18 system.

19  
20 **Detailed description of the invention**

21  
22 The system shown in Figure 1 comprises a central message  
23 pushing system 1 having a database 2 of personal details.  
24 Members of the service would supply the following types  
25 of information, although this list is provided purely by  
26 way of example and additional information might be added:

- 27  
28 • Name  
29 • E-Mail Address  
30 • Mobile phone number (for SMS messages)  
31 • Description Details:  
32  
33 ➤ Sex - Male/Female

- 1      ➤ Hair Colour - Dark, Red, Fair, etc
- 2      ➤ Skin Colour - Dark, Fair
- 3      ➤ Length of Hair - Short, Long
- 4      ➤ Eye Colour
- 5      ➤ Age
- 6      ➤ Height
- 7      ➤ Any other physical attribute
- 8      ➤ Clothing details

9

- 10    • User's locale (the city the user lives in)
- 11    • Favourite locations (a list of bars, nightclubs, etc.,
- 12      that the person frequents)
- 13    • User's current location (as set by the user)

14

15    The messaging system can then use this database to  
16    identify recipients for messages. An example of how the  
17    system would be used is as follows.

18

19    For example, a man in a nightclub could send a message to  
20    the message pushing system, using their WAP enabled  
21    mobile telephone, intended for a particular women he has  
22    seen standing at the bar. The sender has their own  
23    mobile communication device 3 and the system enables them  
24    to send a message to a recipient having a mobile  
25    communication device 4 via telecommunications links 5.  
26    Recipients need to be members of the service in order to  
27    have their details stored on the database 2. The central  
28    message pushing system has access to telecommunications  
29    links, the internet or other communication means for  
30    communicating with mobile communication devices 3,4.

31

32    The sender begins by composing their message, which might  
33    be a text message, an e-mail or multi-media message

1 including sound or potentially even video. This message  
2 is then sent to the central message pushing system using  
3 their communications device. It will be clear to one  
4 skilled in the art that many types of communications  
5 device could be used, particularly SMS, WAP or I-MODE  
6 mobile telephones. The communications devices 3,4 need  
7 merely to be message sending means and message receiving  
8 means respectively. Mobile communication devices, such  
9 as mobile telephones, able to function as both message  
10 sending means and message receiving means are preferred.  
11 Example mobile communication devices include personal  
12 digital assistants and laptop computers.

13

14 As well as the message to be sent, the sender would then  
15 prepare a description of the person and location and time  
16 at which they have seen them, for example: the town, the  
17 name of the nightclub, a description, e.g., "tall woman,  
18 blond, wearing a red dress" and a time when the intended  
19 recipient was seen, which may be a particular day or more  
20 specific time.

21

22 This sender's message is then transmitted by known  
23 technology to the message pushing system. The message  
24 pushing system then interrogates the database to  
25 establish one, or typically several, potential recipients  
26 for the message. The message supplied by the user can  
27 then be transmitted directly to mobile communication  
28 devices owned by the recipient.

29

30 In order to establish which potential recipient may have  
31 been intended the system will take into account not just  
32 their physical appearance but also the location where  
33 they were seen and, usually, the time at which they were

1 seen, comparing this with potential recipient's  
2 descriptions and information about their location or  
3 possible location. Only some descriptive terms need to  
4 match and appropriate database interrogation and data  
5 comparison techniques are apparent to one skilled in the  
6 art.

7  
8 When members of the service set their own personal  
9 details, they will indicate how close a match they want  
10 before a message is transmitted to them. Some people  
11 might like to receive a lot of messages, only a fraction  
12 of which might be intended for them. Others would only  
13 wish to receive a message only if it was very likely  
14 intended for them.

15  
16 Messages might be sent directly to recipients,  
17 alternatively a recipient might simply be informed that  
18 there is a message waiting for them at a location from it  
19 can be downloaded when they wish, for example a website.  
20 Alternatively, the recipient might have to check a  
21 website to receive any messages. In the preferred  
22 embodiment, they will be notified immediately by their  
23 preferred communication method. There is no reason why  
24 users could not send and receive messages from fixed  
25 terminals but mobile communications devices are  
26 preferred.

27  
28 Further information can be provided by members to help  
29 people identify them. Importantly, the database of  
30 member details 2 can be updated on demand by members, for  
31 example the person might supply information as to where  
32 they are going on that evening, which clubs, etc., so as  
33 to improve the chances of a match. They might also

1 supply details of the clothing they are wearing that  
2 particular evening or even inform the database they have  
3 moved venues. In a further embodiment, it is envisaged  
4 that with the advent of mobile telephone positioning  
5 technology, such as mobile telephones containing global  
6 positioning system units or other mobile telephone  
7 locating technologies, it may be possible for member's  
8 mobile communications devices to automatically update  
9 their current and historic location details on the  
10 central database.

11

12 The facility by which the database can be rapidly and  
13 dynamically updated by members substantially increases  
14 the probability of successfully sending the message to  
15 the right person.

16

17 Once they have received the message, the recipient can,  
18 if they wish, then reply to the sender, sending their own  
19 message to them. The message pushing system may allocate  
20 an alias to each sender or each sending event, enabling  
21 messages to be returned to the correct sender.

22

23 The simplest type of message would be merely a very  
24 general statement of where the person had been seen, for  
25 example, a city and details of a particular venue, such  
26 as a nightclub. In another embodiment, users might  
27 supply a more detailed description, including ideas of  
28 hair colour, what the person was wearing, their height  
29 and other distinguishing features, in order to gain a  
30 more accurate match.

31

32 Typically the above details will be stored in a  
33 relational database, however any other type of database

1 known to the art, such as a object orientated database or  
2 a file, could be used.

3

4 Figure 2 is a flow diagram illustrating the basic  
5 procedure for determining recipients for the messages. A  
6 sender beings by posting a message to the message pushing  
7 system, including location and description information as  
8 discussed above. The database then is interrogated for  
9 user profiles matching the location and description  
10 included with a message. If appropriate records are  
11 found, the system sequentially identifies user's contact  
12 details and instigates sending the message on to the user  
13 or users identified.

14

15 It will be seen from the above description that this  
16 system provides an highly innovative method of messaging.  
17 A method is provided for people to send messages to  
18 others whom they come across in a fun, convenient and  
19 anonymous way.

20

21 Revenues could be generated by asking members to pay a  
22 subscription, which is the preferred method.  
23 Alternatively, other e-commerce techniques, such as pay-  
24 per-message or a linking message sending/receiving to the  
25 receipt of advertising could also be used to generate  
26 revenue.

27

28 As well as the application described above, the  
29 underlying technology and method may be used to send  
30 messages to unknown recipients in other circumstances,  
31 for example, to road users by using a description of  
32 their vehicle.

33

1 Although the embodiments of the message pushing system  
2 and method described with reference to the drawings  
3 comprise computer apparatus and process performed in  
4 computer apparatus, the invention also extends to  
5 computer programs, particularly computer programs on or  
6 in a carrier, adapted for putting the invention into  
7 practice, particularly when executed on a web server.  
8 The program may be in the form of source code, object  
9 code, a code intermediate source and object code such as  
10 in a partially compiled form, or in any other form  
11 suitable for use in the implementation of the processes  
12 according to the invention. The carrier may be any  
13 entity or device capable of carrying the program.

14  
15 For example, the carrier may comprise a storage medium,  
16 such as a ROM, for example a CD ROM or a semiconductor  
17 ROM, or a magnetic recording medium, for example a floppy  
18 disc or hard disc. Furthermore, the carrier may be a  
19 transmissible carrier such as an electrical or optical  
20 signal which may be conveyed via electrical or optical  
21 cable or by radio or any other means. When the program  
22 is embodied in a signal which may be conveyed directly by  
23 a cable or other device or means, the carrier may be  
24 constituted by such cable or other device or means.  
25 Alternatively, the carrier may be an integrated circuit  
26 in which the program is embedded, the integrated circuit  
27 being adapted for performing, or for use in the  
28 performance of, the relevant processes.

29  
30 Further improvements and modifications may be made within  
31 the scope of the invention herein disclosed.

1    Claims

- 2
- 3    1.    A message pushing system (1) for sending messages to  
4           recipients, the system comprising a database (2) of  
5           details of individual potential recipients,  
6           telecommunications links (5) for communicating with  
7           message sending (3) and message receiving (4)  
8           devices, the message pushing system being adapted to  
9           receive a message from a message sending means, the  
10          message comprising details of the intended recipient  
11          of the message, wherein the message pushing system  
12          compares the details of the intended recipient of  
13          the message with the database (2) of potential  
14          recipient's details thereby establishing one or more  
15          members who may be the intended recipient, the  
16          message pushing system (1) being adapted to transmit  
17          said message to the message receiving means of the  
18          one or more members who may be the intended  
19          recipient.  
20
- 21    2.    The message pushing system of Claim 1 wherein the  
22           details of individual potential recipients include  
23           details of the individual's physical appearance.  
24
- 25    3.    The message pushing system of Claim 2 wherein the  
26           details are selected from a list comprising their  
27           sex, their hair length and colour, their eye colour,  
28           their age, their skin colour, their height, and  
29           their clothing.  
30
- 31    4.    The message pushing system of Claim 1 or Claim 2  
32           wherein the database includes one or more of the e-  
33           mail address, mobile telephone number, name, address



1 or other contact details of individual potential  
2 recipients.

3

4 5. The message pushing system of any preceding Claim  
5 wherein the database also includes information about  
6 the location of the recipient.

7

8 6. The message pushing system of Claim 5 wherein the  
9 information about the location of the recipient  
10 includes the current location of the recipient.

11

12 7. The message pushing system of Claim 5 or Claim 6  
13 wherein the information about the location of the  
14 recipient includes frequently visited locations.

15

16 8. The message pushing system of any of Claims 5 to 7  
17 wherein the information about the location of the  
18 recipient includes previous locations.

19

20 9. The message pushing system of any preceding Claim  
21 adapted to allow potential recipients to update  
22 their details.

23

24 10. The message pushing system of Claim 9 adapted to  
25 enable potential recipients to update their details  
26 automatically.

27

28 11. The message pushing system of Claim 9 or Claim 10  
29 adapted to enable potential recipients to update  
30 their details using their message sending means.

31

32 12. The message pushing system of any preceding Claim  
33 adapted to allow messages to be delivered to

1 recipients without the sender of the message knowing  
2 the identity of the recipient.

3

4 13. The message pushing system of any preceding Claim  
5 wherein the comparison between the details of the  
6 potential recipient and member's details on the  
7 database does not need to be exact.

8

9 14. The message pushing system of Claim 13 wherein the  
10 database also includes information about how close a  
11 match between details is required for that message  
12 to be sent to that potential recipient.

13

14 15. The message pushing system of any preceding Claim  
15 wherein one device can function as both a message  
16 sending means and a message receiving means.

17

18 16. The message pushing system of Claim 15 wherein the  
19 message sending means and message receiving means  
20 are a mobile telephone using SMS, WAP or I-MODE.

21

22 17. The message pushing system of Claim 15 wherein the  
23 message sending means and message receiving means  
24 are a personal digital assistant using SMS, WAP or  
25 I-MODE.

26

27 18. The message pushing system of any preceding Claim  
28 wherein the telecommunications links may comprise  
29 the internet.

30

31 19. The message pushing system of any preceding Claim  
32 wherein the message comprises one of an e-mail, a

1 text message, a visual message or a multi-media  
2 message.

3

4 20. The message pushing system of any preceding Claim  
5 wherein the message is transmitted to the recipient  
6 or recipients only on request from the recipient or  
7 recipients.

8

9 21. The message pushing system of Claim 20 wherein a web  
10 site is used to display the message.

11

12 22. A messaging system comprising the message pushing  
13 system of any preceding Claim and a plurality of  
14 message sending and message receiving means, adapted  
15 to send messages to and receive message from the  
16 message pushing system.

17

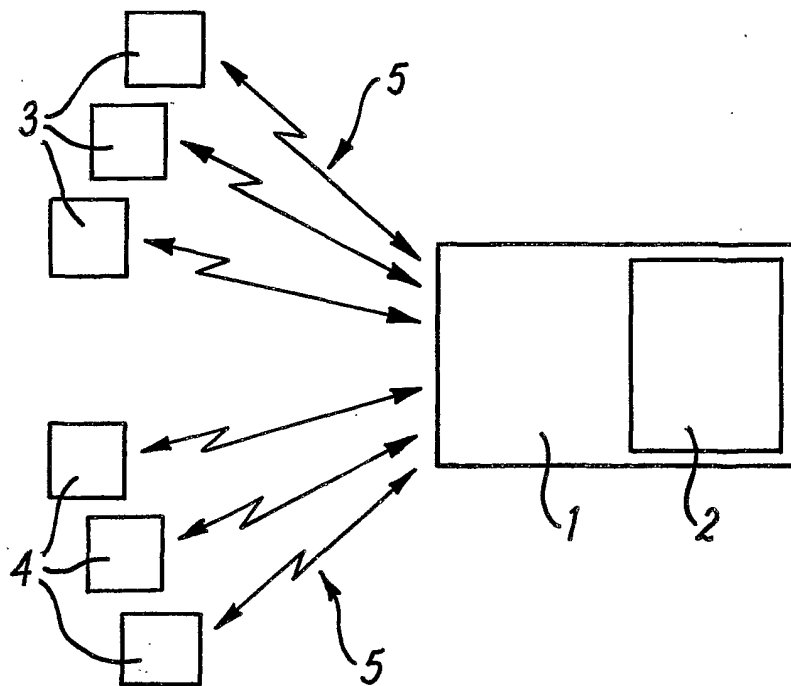
18 23. A method of transmitting a message to one or more  
19 recipients, the method comprising the steps of:  
20 (a) maintaining a database (2) of details of the  
21 appearance and location of individual potential  
22 recipients for messages;  
23 (b) receiving messages at a central message pushing  
24 system (2), the messages including details of the  
25 appearance and location of the intended recipient  
26 for a message;  
27 (c) comparing the details of the appearance and  
28 location of the intended recipient with the details  
29 stored in the database, thereby identifying one or  
30 more possible intended recipients.

31

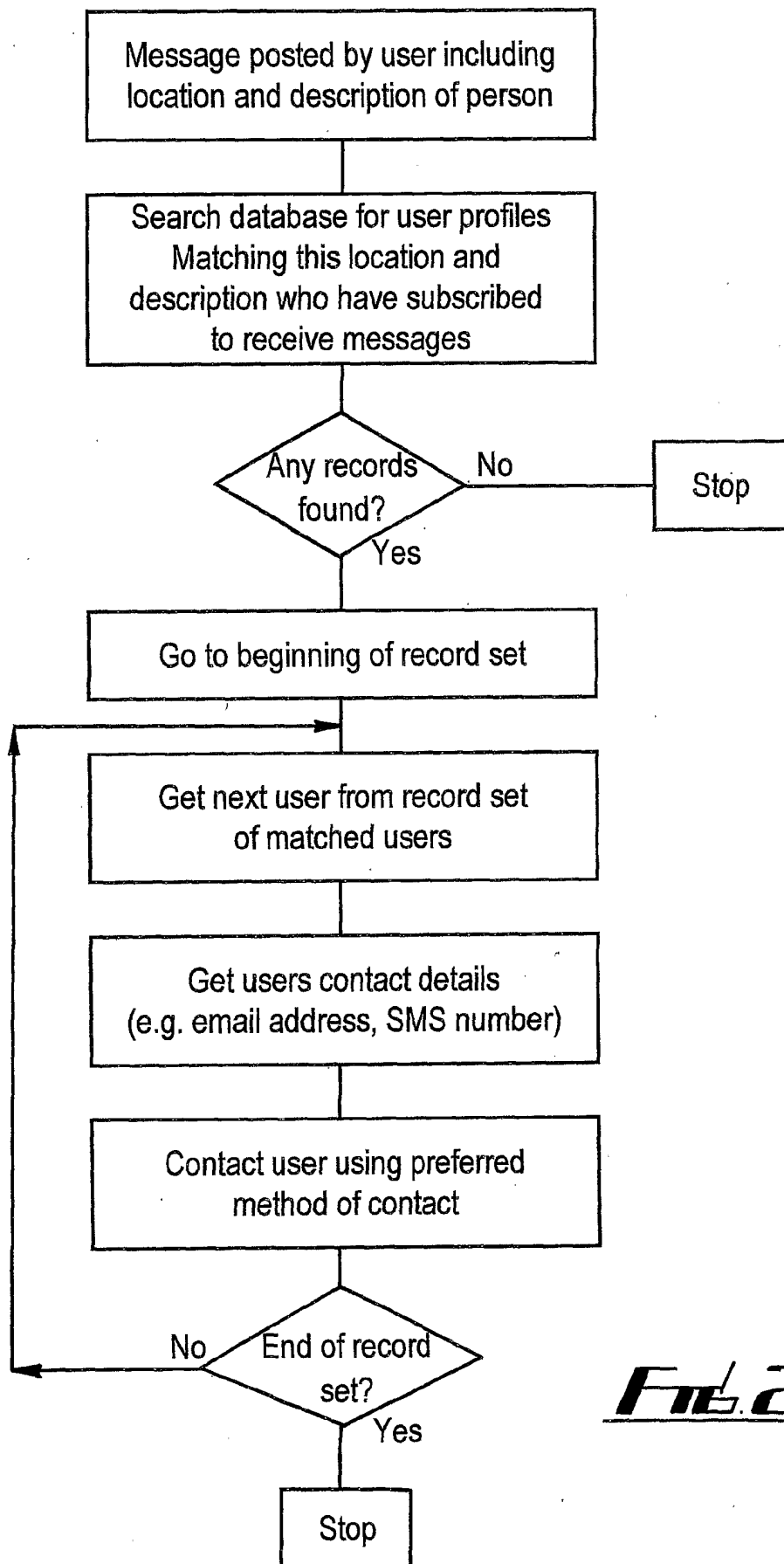
- 1 24. The method of Claim 23 further comprising the step  
2 of sending the message to message receiving means  
3 (4) belonging to the possible intended recipients.  
4
- 5 25. The method of Claim 23 or Claim 24 wherein the  
6 details of individual potential recipients include  
7 details of the individual's physical appearance.  
8
- 9 26. The method of Claim 25 wherein the details are  
10 selected from a list comprising their sex, their  
11 hair length and colour, their eye colour, their age,  
12 their skin colour, their height, and their clothing.  
13
- 14 26. The method of any of Claims 23 to 25 wherein the  
15 database also includes the e-mail address, mobile  
16 telephone number, name, address or other contact  
17 details of individual potential recipients.  
18
- 19 27. The method of any of Claims 23 to 26 wherein the  
20 database also includes information about the  
21 location of the recipient.  
22
- 23 28. The method of Claim 27 wherein the information about  
24 the location of the recipient includes the current  
25 location of the recipient.  
26
- 27 29. The method of Claim 27 or Claim 28 wherein the  
28 information about the location of the recipient  
29 includes frequently visited locations.  
30
- 31 30. The method of any of Claims 27 to 29 wherein the  
32 information about the location of the recipient  
33 includes previous locations.

- 1  
2 31. The method of any of Claims 23 to 30 wherein the  
3 database also includes information about how close a  
4 match between details is required for that message  
5 to be sent to that potential recipient.  
6
- 7 32. The method of any of Claims 23 to 31 adapted to  
8 allow potential recipients to update their details.  
9
- 10 33. The method of Claim 32 adapted to enable potential  
11 recipients to update their details automatically.  
12
- 13 34. The method of Claim 32 or Claim 33 adapted to enable  
14 potential recipients to update their details using  
15 their message sending means.  
16
- 17 35. The method of any of Claims 23 to 34 wherein  
18 messages are delivered to recipients without the  
19 sender of the message knowing who the recipient is.  
20
- 21 36. The method of any of Claims 23 to 35 wherein the  
22 comparison between the details of the potential  
23 recipient and member's details on the database does  
24 not need to be exact.  
25
- 26 37. The method of Claim 36 wherein the database also  
27 includes information about how close a match between  
28 details is required for that message to be sent to  
29 that potential recipient.  
30
- 31 38. The method of any of Claims 23 to 37 wherein one  
32 device can function as both a message sending means  
33 and a message receiving means.

- 1  
2 39. The method of Claim 38 wherein the message sending  
3 means and message receiving means are mobile  
4 telephones using SMS, WAP or I-MODE.  
5
- 6 40. The method of Claim 38 wherein the message sending  
7 means and message receiving means are personal  
8 digital assistants using SMS, WAP or I-MODE.  
9
- 10 41. The method of any of Claims 23 to 40 wherein the  
11 telecommunications links may comprise the internet.  
12
- 13 42. The method of any of Claims 23 to 41 wherein the  
14 message is selected from a group consisting of an e-  
15 mail, a text message, a visual message or a multi-  
16 media message.  
17
- 18 43. The method of any of Claims 23 to 42 wherein the  
19 message is transmitted to the recipient or  
20 recipients only on request from the recipient or  
21 recipients.  
22
- 23 44. The method of any of Claims 23 to 43 wherein a web  
24 site is used to display the message.  
25
- 26 45. A computer program comprising program instructions  
27 which, when executed on a computer, cause the  
28 computer to perform as the message pushing system of  
29 any of Claims 1 to 21.  
30
- 31 46. A computer program comprising program code  
32 instructions for causing a computer to perform the  
33 method of any of Claims 23 to 44.



**Fig. 1**

**FIG. 2**