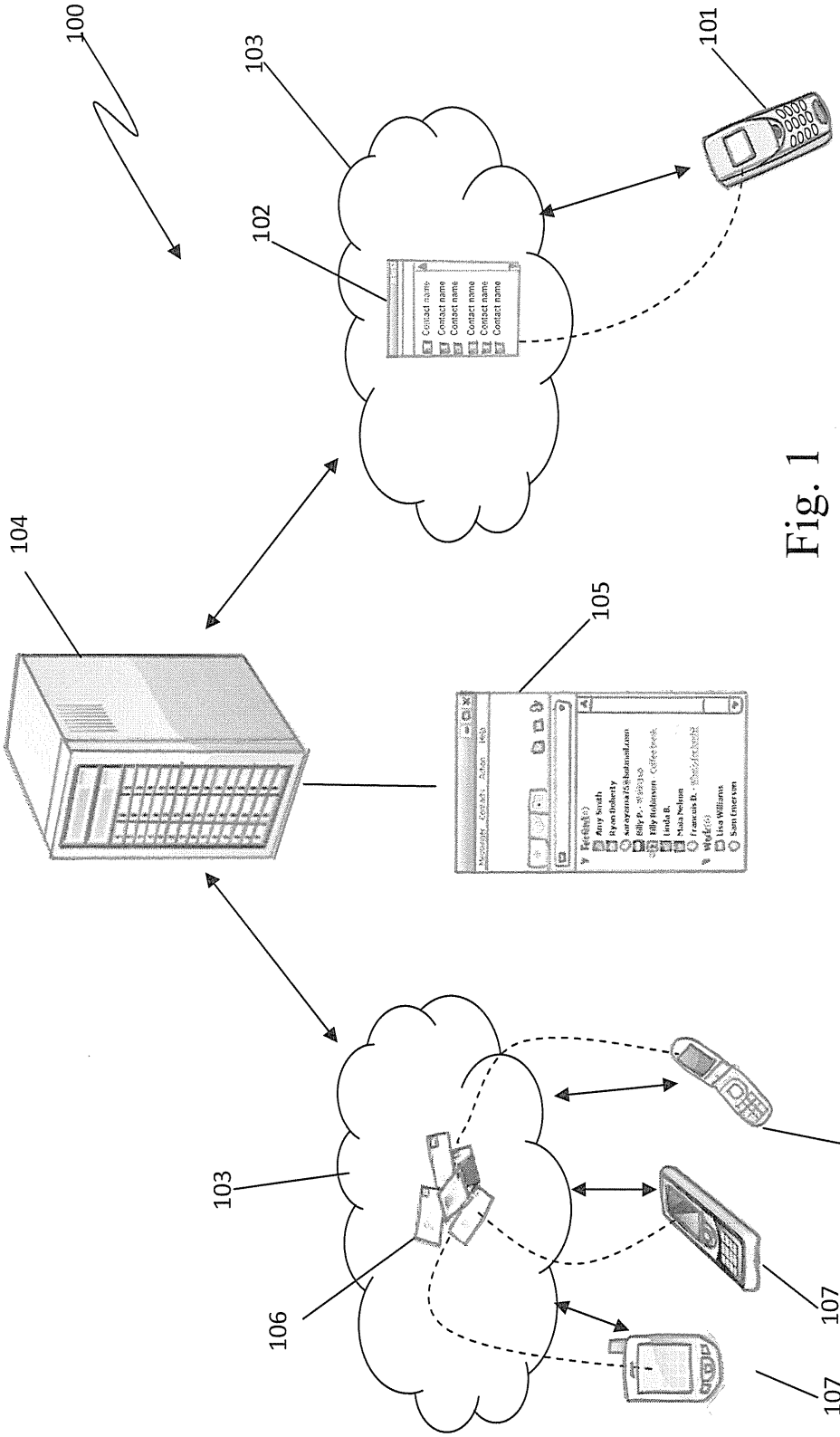
100
101
102
103
104
105
106
107
107
107
Contact name
Contact name
Contact name
Contact name
Contact name
Contact name

Fig. 1

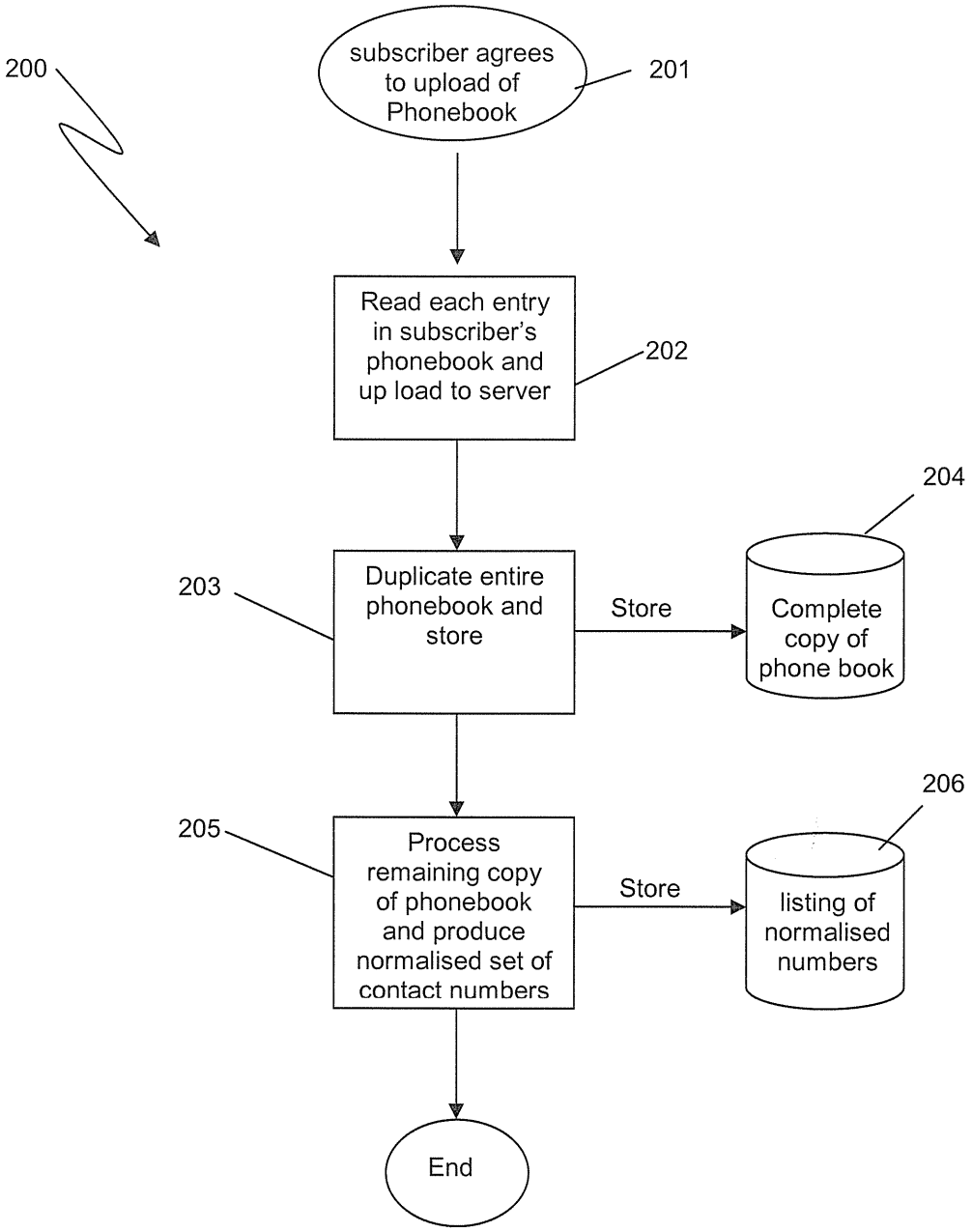
200
subscriber agrees to upload of Phonebook
201
Read each entry in subscriber's phonebook and up load to server
202
204
Duplicate entire phonebook and store
203
Store
Complete copy of phone book
206
205
Process remaining copy of phonebook and produce normalised set of contact numbers
Store
listing of normalised numbers
End

Fig. 2

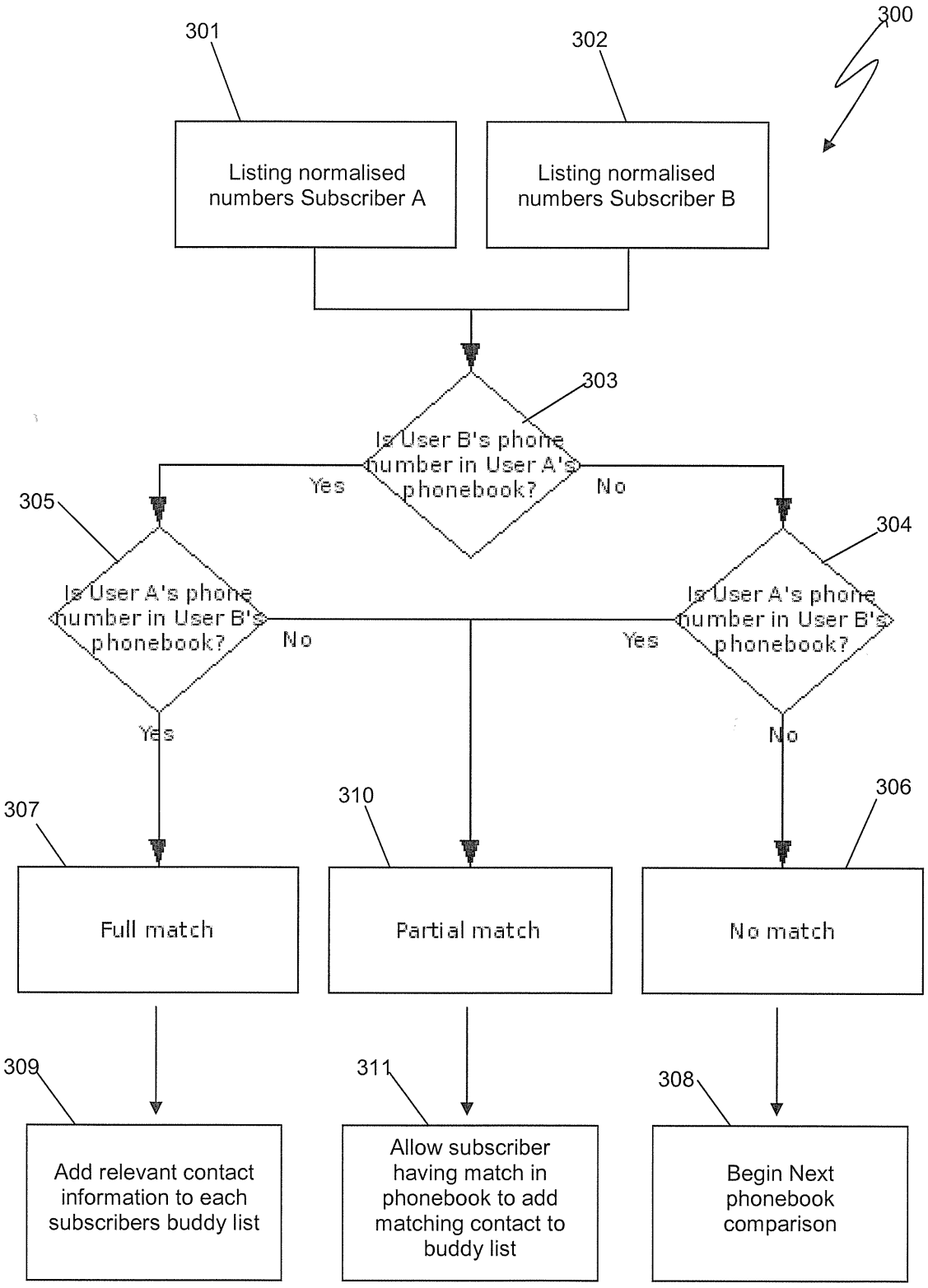
300
301
302
Listing normalised numbers Subscriber A
Listing normalised numbers Subscriber B
303
Is User B's phone number in User A's phonebook?
Yes
No
305
Is User A's phone number in User B's phonebook?
No
Yes
304
Is User A's phone number in User B's phonebook?
Yes
No
307
310
306
Full match
Partial match
No match
309
311
308
Add relevant contact information to each subscribers buddy list
Allow subscriber having match in phonebook to add matching contact to buddy list
Begin Next phonebook comparison

Fig. 3

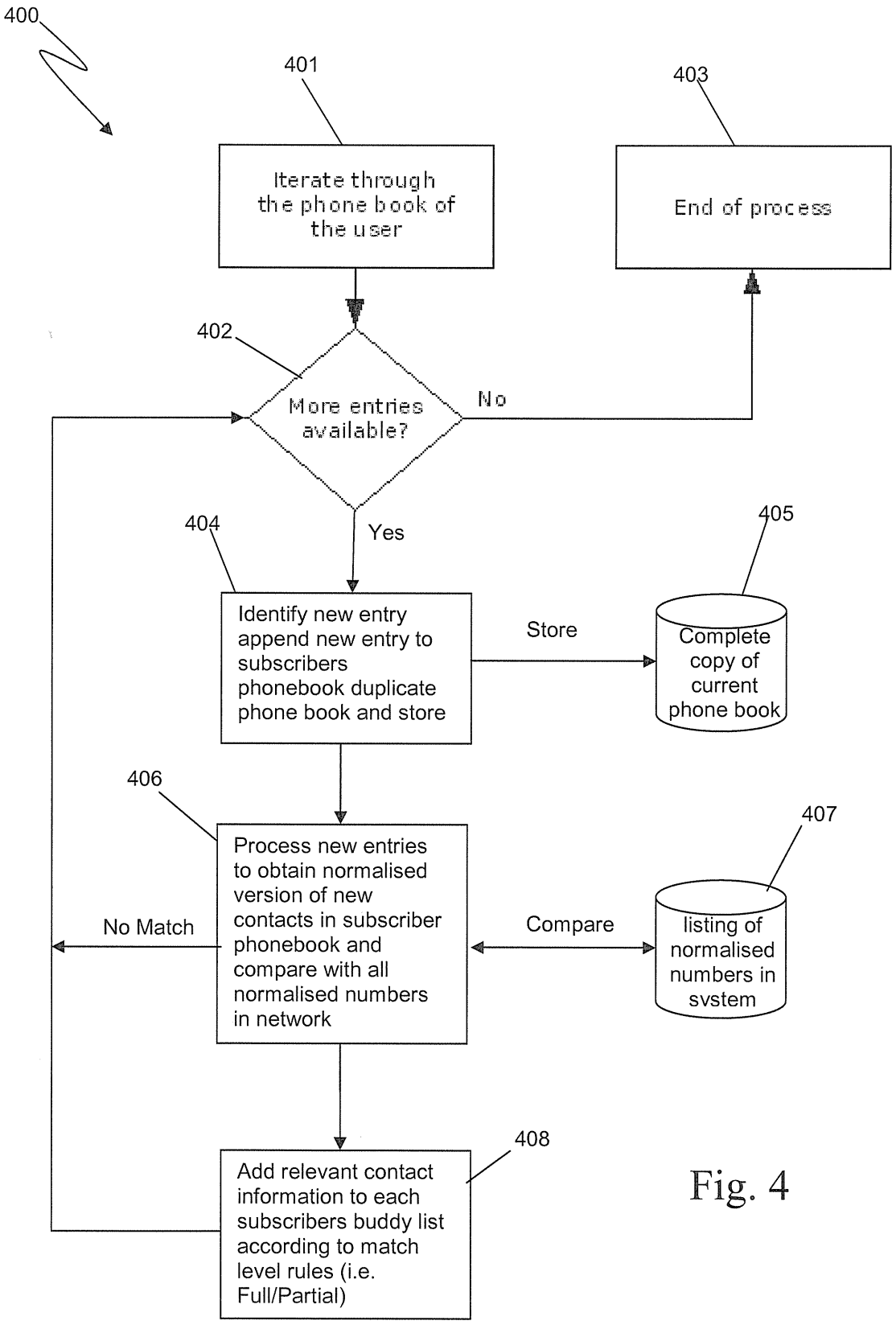
400
401
Iterate through the phone book of the user
403
End of process
402
More entries available?
No
Yes
404
Identify new entry append new entry to subscribers phonebook duplicate phone book and store
Store
405
Complete copy of current phone book
406
Process new entries to obtain normalised version of new contacts in subscriber phonebook and compare with all normalised numbers in network
No Match
Compare
407
listing of normalised numbers in svstem
408
Add relevant contact information to each subscribers buddy list according to match level rules (i.e. Full/Partial)

Fig. 4

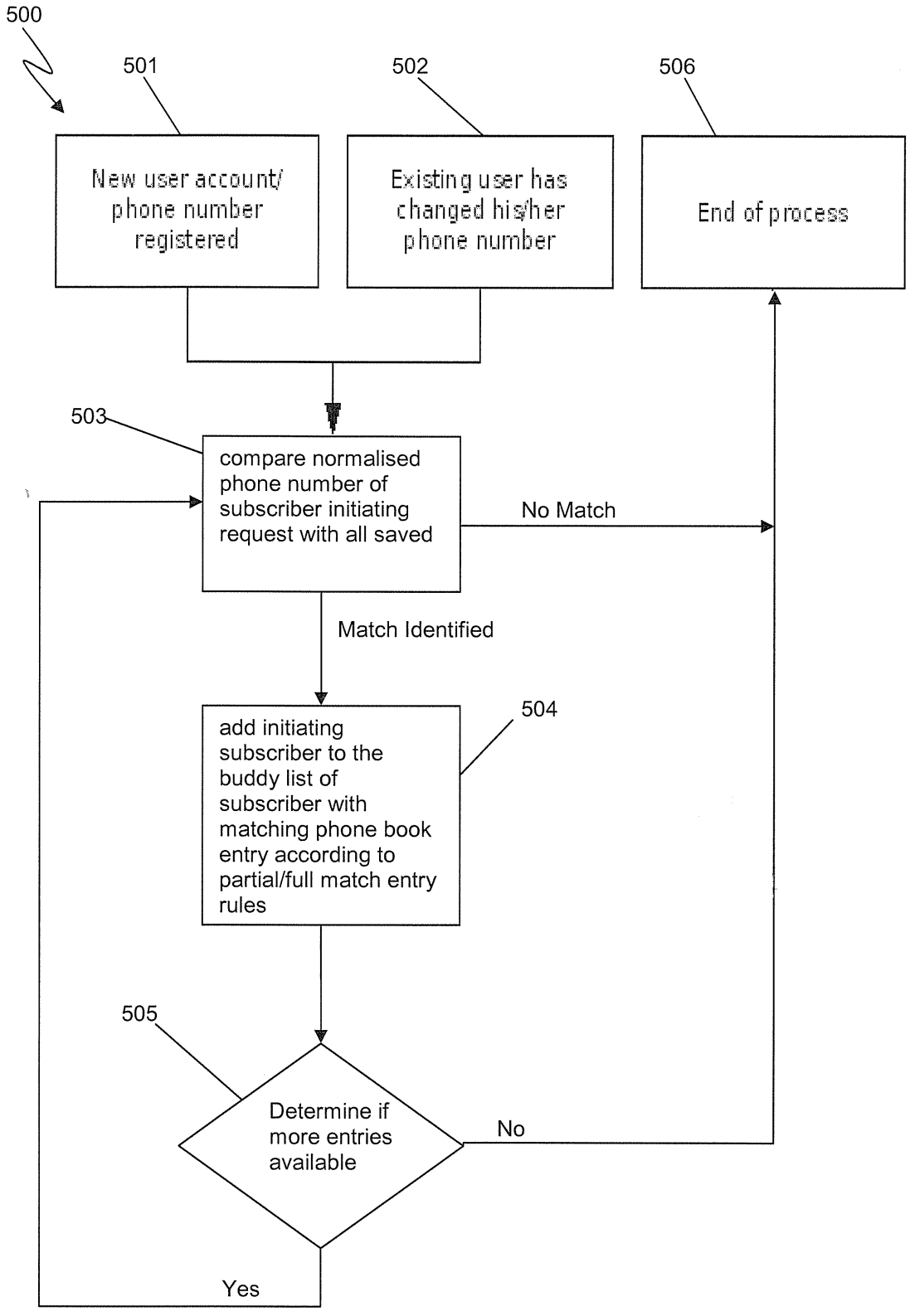
500
501
502
506
New user account/ phone number registered
Existing user has changed his/her phone number
End of process
503
compare normalised phone number of subscriber initiating request with all saved
No Match
Match Identified
504
add initiating subscriber to the buddy list of subscriber with matching phone book entry according to partial/full match entry rules
505
Determine if more entries available
No
Yes

Fig. 5

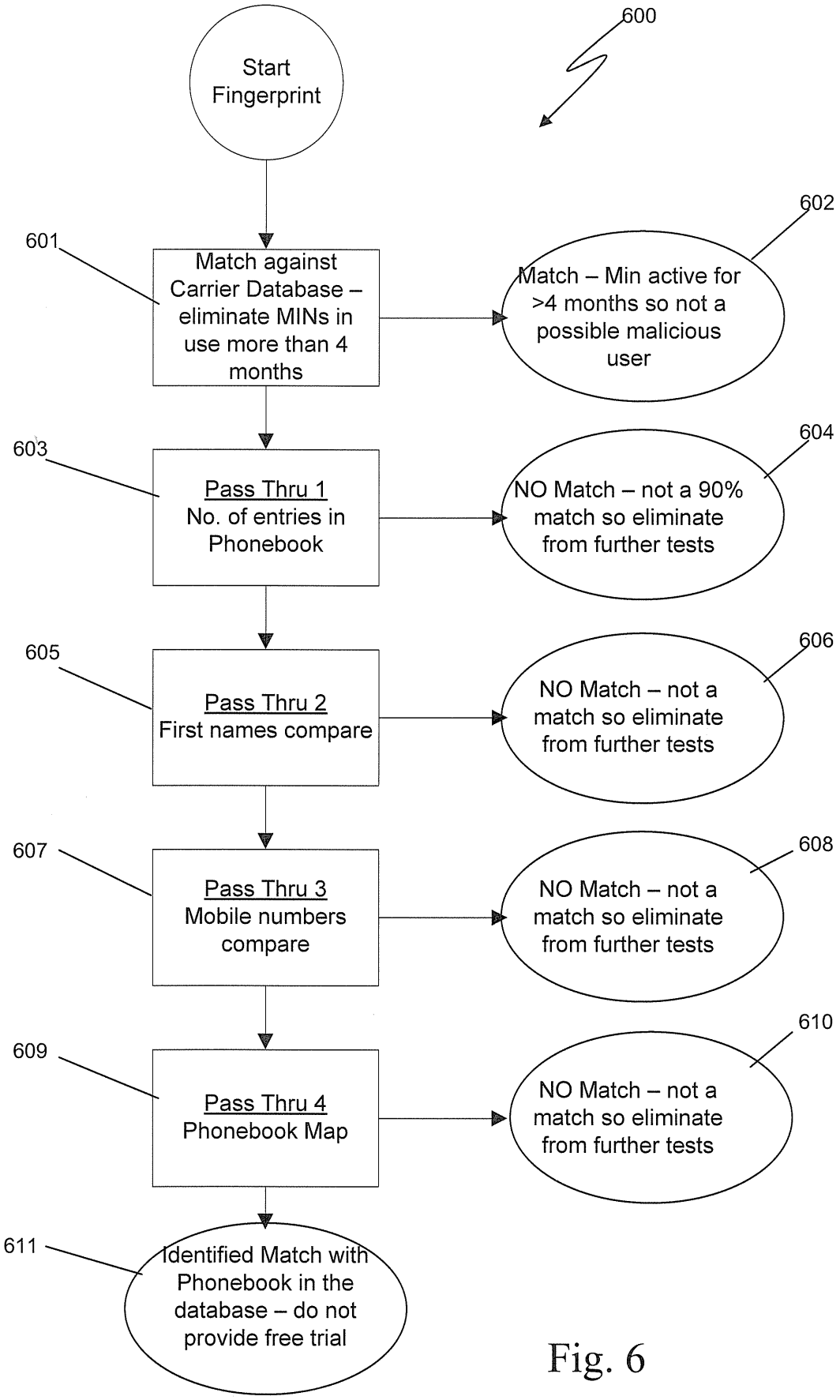
Start Fingerprint
600
601
Match against Carrier Database – eliminate MINs in use more than 4 months
602
Match – Min active for >4 months so not a possible malicious user
603
Pass Thru 1
No. of entries in Phonebook
604
NO Match – not a 90% match so eliminate from further tests
605
Pass Thru 2
First names compare
606
NO Match – not a match so eliminate from further tests
607
Pass Thru 3
Mobile numbers compare
608
NO Match – not a match so eliminate from further tests
609
Pass Thru 4
Phonebook Map
610
NO Match – not a match so eliminate from further tests
611
Identified Match with Phonebook in the database – do not provide free trial

Fig. 6

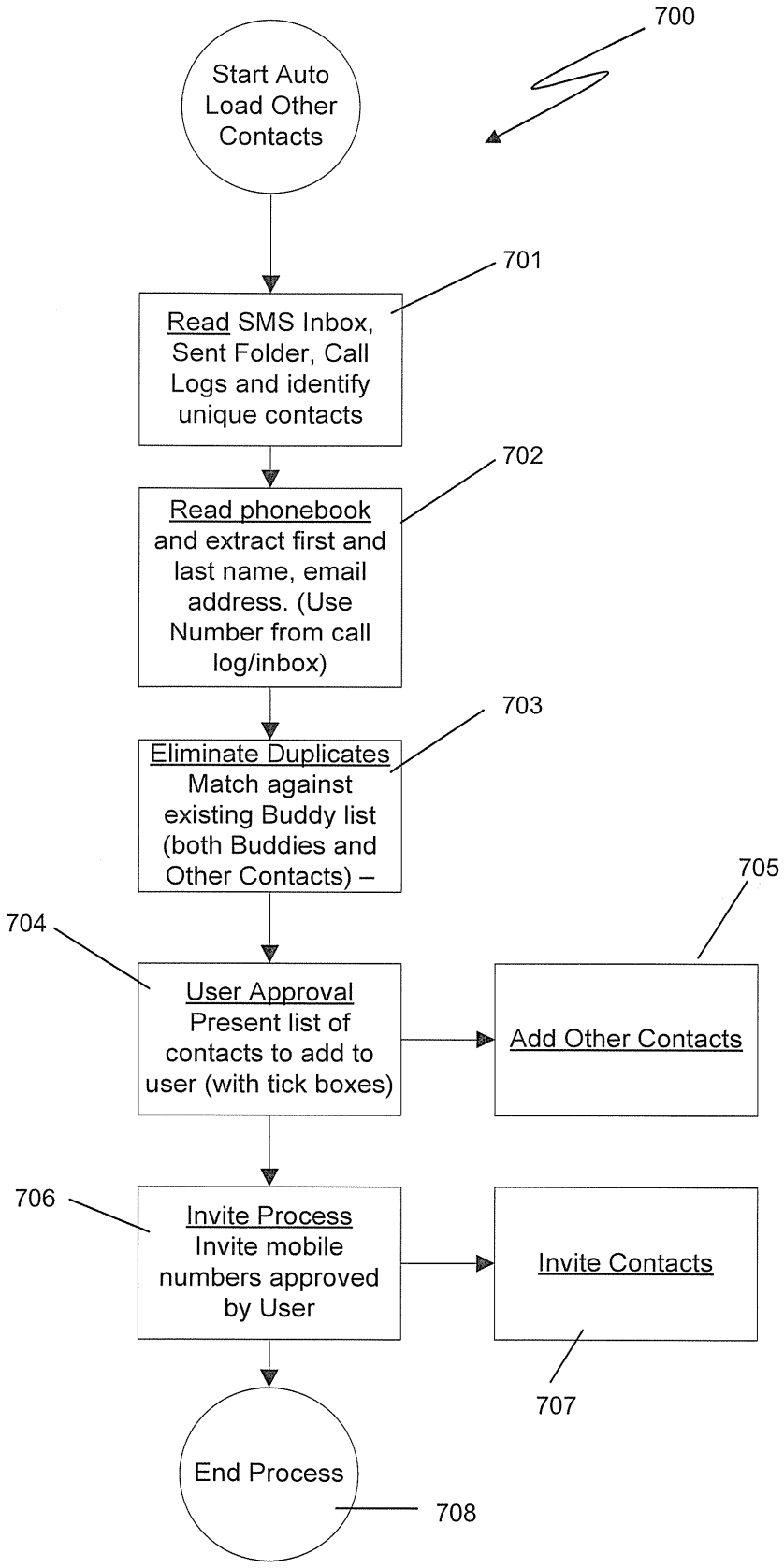
700
Start Auto Load Other Contacts
701
Read SMS Inbox, Sent Folder, Call Logs and identify unique contacts
702
Read phonebook and extract first and last name, email address. (Use Number from call log/inbox)
703
Eliminate Duplicates Match against existing Buddy list (both Buddies and Other Contacts) –
704
User Approval Present list of contacts to add to user (with tick boxes)
705
Add Other Contacts
706
Invite Process Invite mobile numbers approved by User
Invite Contacts
707
End Process
708

Fig. 7