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(54) METHOD, APPARATUS AND SYSTEM FOR ENSURING RELIABLE ACCESS TO A ROAMING MOBILE NODE

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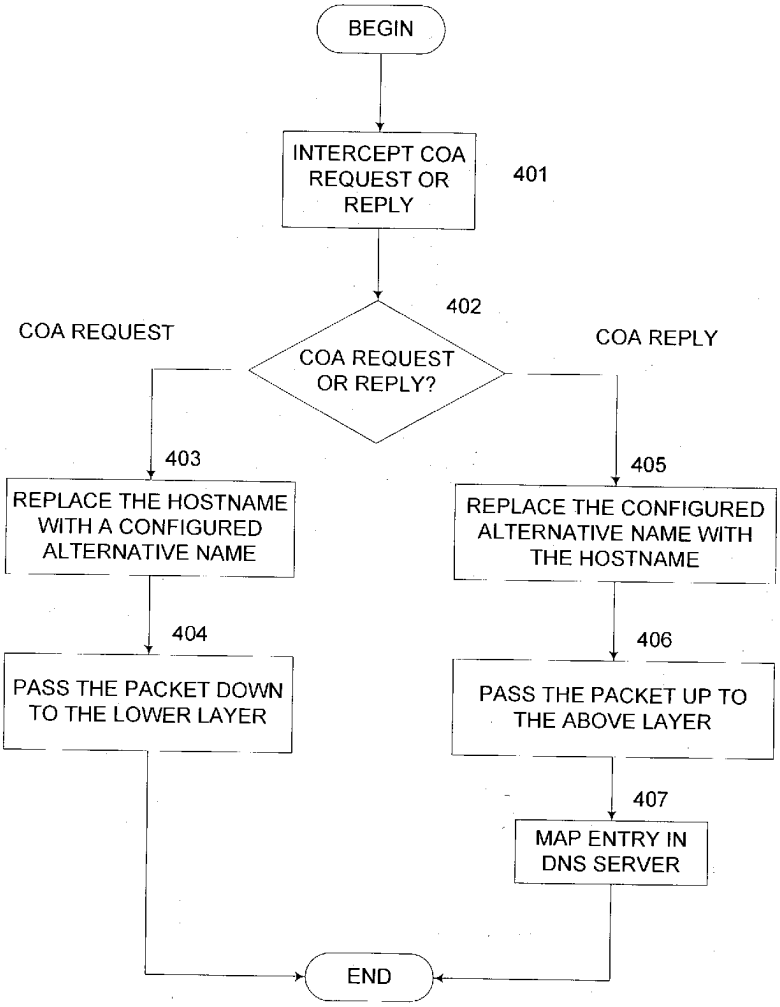
(57) **ABSTRACT**

A method, apparatus and system provide reliable access to a mobile node. Requests for care of addresses (COAs) are intercepted and the mobile node hostnames in the requests are replaced with alternative configured names. These altered requests are then passed down the network stack. Similarly, replies to the COA requests are also intercepted and the alternative configured names may be replaced with the mobile node hostnames. These replies may then be passed up the network stack. A mobile IP registration request extension may be used to create a mapping entry in a Domain Name Services (DNS) server between the mobile node hostname and the mobile node home address. This mapping entry ensures that the mobile node is consistently reachable via its hostname.



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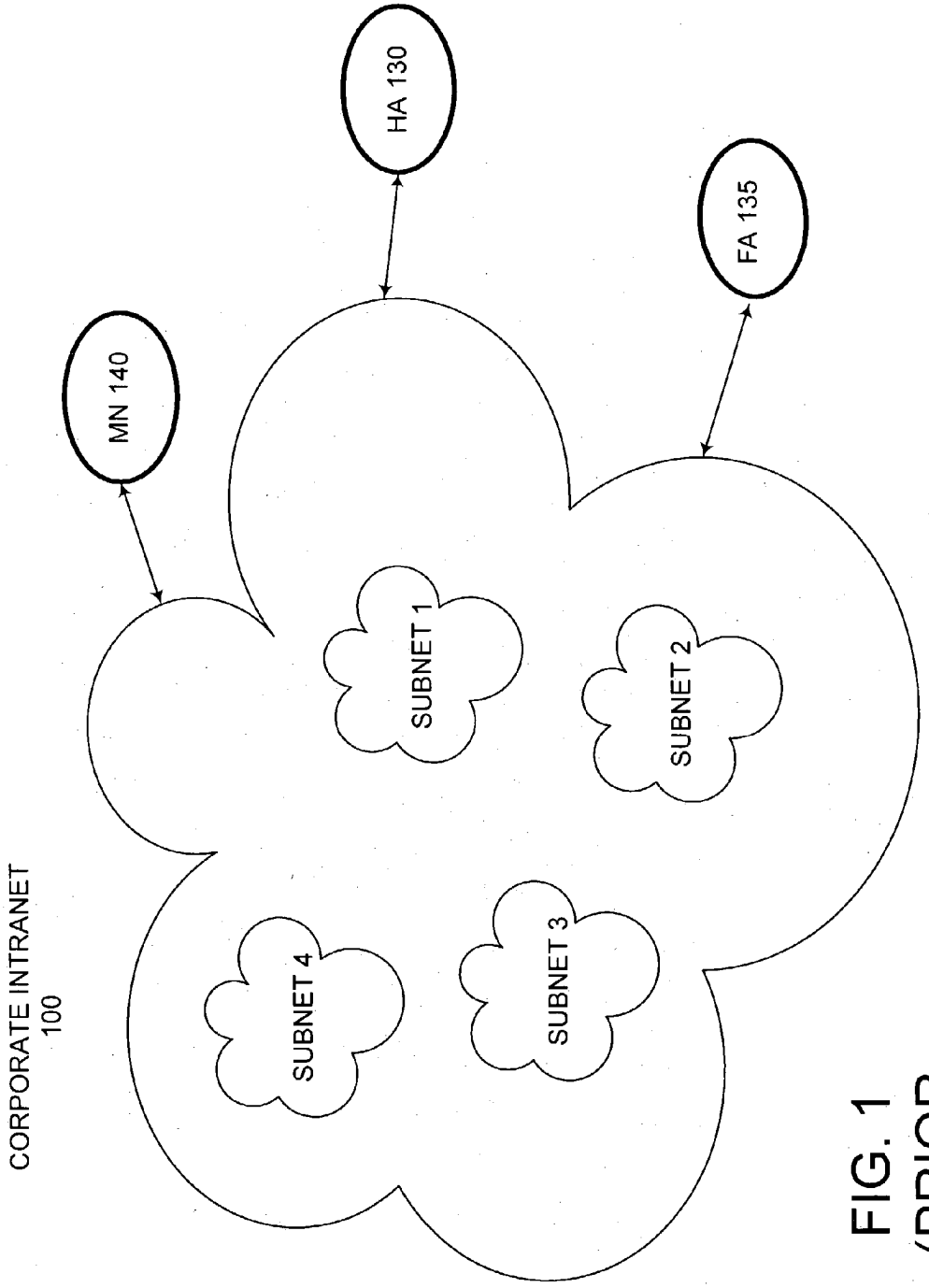

FIG. 1
(PRIOR
ART)

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Scenario	NAI != Hostname	NAI == Hostname	Co-Located	Non-Colocated	Static Home Address Assignment
1	X		X		
2	X			X	
3		X	X		
4		X		X	
5			X		X
6				X	X

FIG. 2

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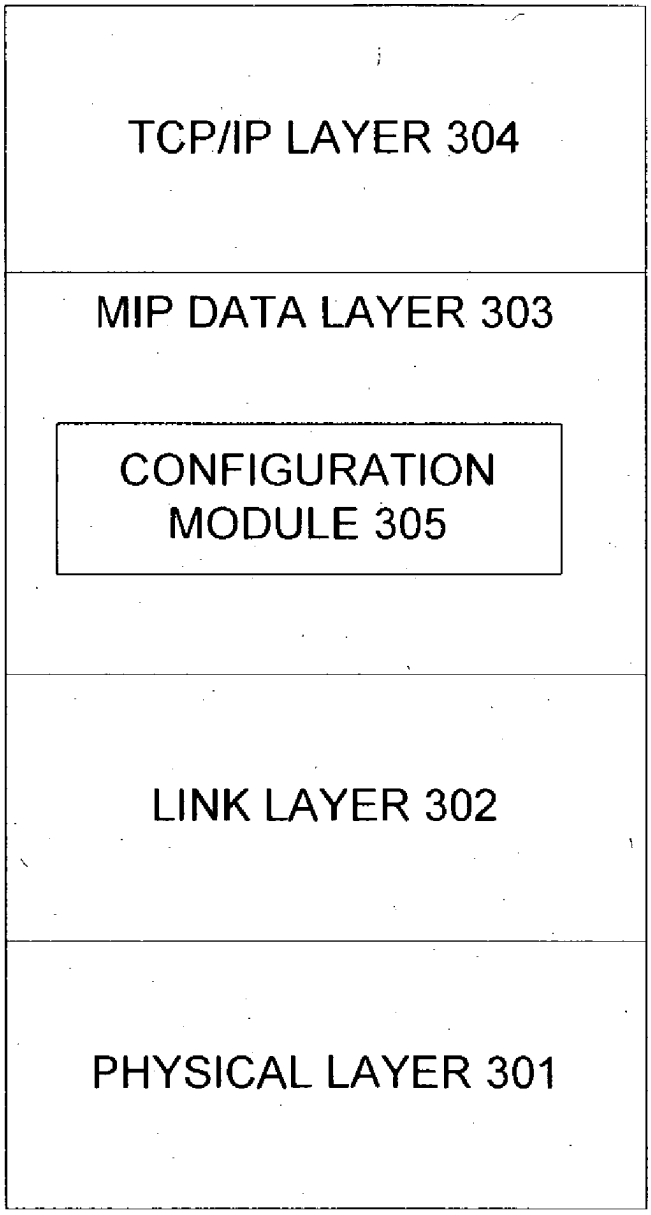

FIG. 3

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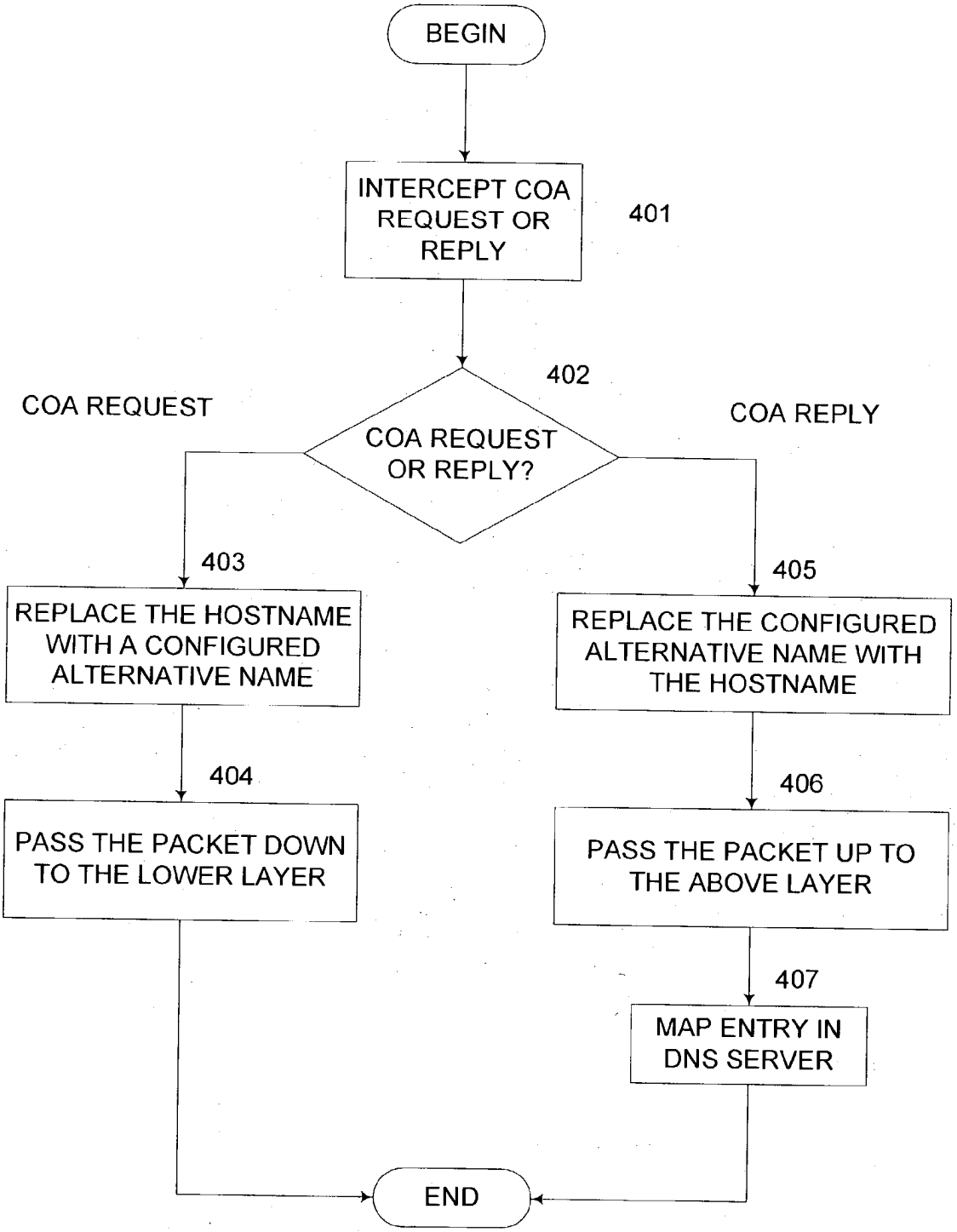

FIG. 4

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