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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))

[Continued on next page]

(54) **Title:** MESSAGE ORDERING FOR NETWORK BASED MOBILITY MANAGEMENT SYSTEMS

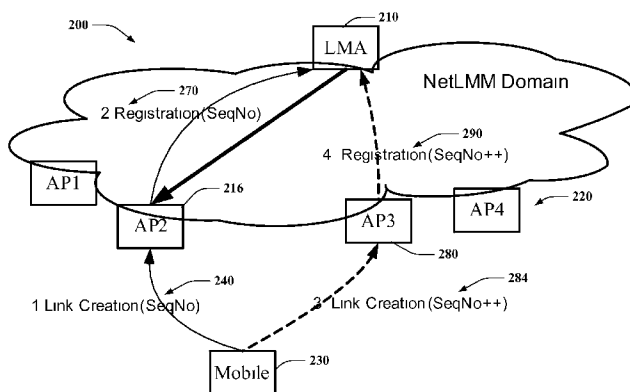


FIG. 2

(57) **Abstract:** The claimed subject matter relates to systems and methods for processing messages in a wireless communications environment. In an aspect, a communications method is provided. The method includes initiating a registration (270,290) with a network domain node (210), which may be a Local Mobility Anchor (LMA), and generating sequence information with respect to the registration. The registration may be triggered by a communication link creation (240,284). This can take different forms, including some form of an L2 connection request, e.g., Address Resolution Protocol (ARP), Neighbor Discovery (ND), Dynamic Host Configuration Protocol (DHCP) or other protocol. The sequence information is then employed to facilitate further communications with the network domain node, in particular to prevent out of order delivery of registrations to the network domain node (210), e.g., in a condition, commonly referred to as "ping-pong". When Proxy Mobile IP is being used, the sequence data is generated by a Proxy Mobile (410) and dispatched to the access points (450,460).

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	TEMPLIN F ET AL: "Network Localized Mobility Management using DHCP; draft-tempi in-autoconf-net lmm-dhcp-04 .txt " INTERNET ENGINEERING TASK FORCE (IETF) DRAFT, 23 October 2006 (2006-10-23), XP015048574 page 16, lines 1-18 section 5.1.2 -----	1-39
A	DROMS R: "Dynamic Host Configuration Protocol ; RFC 2131" INTERNET ENGINEERING TASK FORCE (IETF), March 1997 (1997-03), XP015007915 pages 8-10; figure 1; table 1 ----- -/--	1-39
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
Special categories of cited documents 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art '&' document member of the same patent family		
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Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
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A	ARKKO J ET AL: "SEcure Neighbor Discovery (SEND); RFC 3971" INTERNET ENGINEERING TASK FORCE (IETF), March 2005 (2005-03), XP015009743 section 5.3.1 -----	1-39
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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