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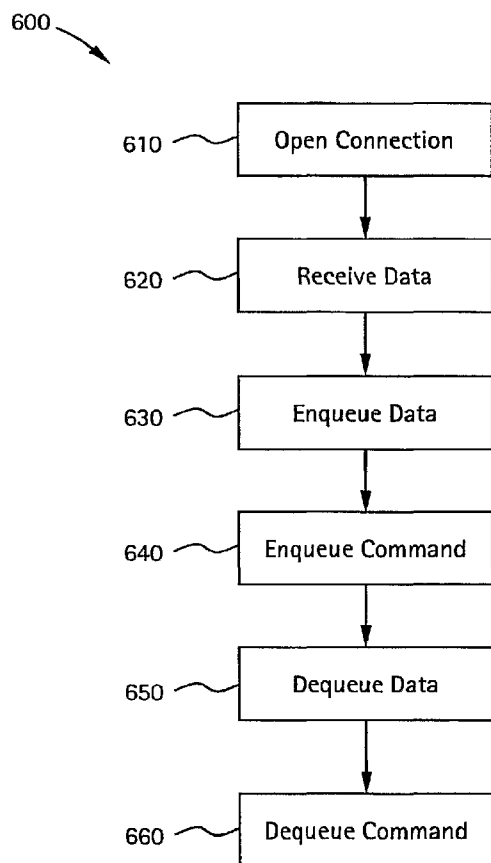
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR CLOSE QUEUING TO SUPPORT QUALITY OF SERVICE



(57) Abstract: Certain embodiments of the present invention provide systems and methods for enqueueing transport protocol commands with data in a low-bandwidth network environment. The method may include receiving data for transmission via a network connection, enqueueing the data, enqueueing a transport protocol command related to the network connection, transmitting the data via the network connection, and transmitting the transport protocol command after transmission of the data. In certain embodiments, the data and the transport protocol command are enqueueed based at least in part on manipulating a transport protocol layer of a communication network, such as a tactical data network. In certain embodiments, the data is prioritized based on at least one rule, such as a content-based rule and/or a protocol-based rule. In certain embodiments, the transport protocol command includes a close connection command, for example.

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B. FIELDS SEARCHED

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 U.S. : 370/230,230.1,235,236,236.2,241.1,389,392,394,395.2,395.42,401,410,412,413,428,429,469,471; 709/225-237

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---------------|--|--------------------------------|
| X --- Y | US 2003/0112802 A1 (ONO et al.) 19 June 2003 (19.06.2003), Paragraphs 0016,0046,0049,0055,0077-0082; Figures 3-9 | 1-5, 7-13 ----- 6, 14-20 |
| Y | US 2003/0004952 A1 (NIXON et al.) 02 January 2003 (02.01.2003), Paragraphs 0007, 0010; Figure 1 | 6, 14-20 |

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