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(54) **METHOD AND APPARATUS OF HANDLING CONTROL SIGNALING FOR INTER-USER EQUIPMENT (UE) COORDINATION INFORMATION IN A WIRELESS COMMUNICATION SYSTEM**

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(57) **ABSTRACT**

A method and apparatus are disclosed. In an example from the perspective of a first User Equipment (UE), the first UE generates a message requesting inter-UE coordination information, wherein the message includes information associated with a first priority value. The first UE generates a Medium Access Control (MAC) Protocol Data Unit (PDU) including the message. The first UE sets a value of a priority field in a first sidelink control information (SCI) based on a second priority value of the message, wherein the second priority value of the message is a configured value and/or a lowest priority value among a defined set of priority values. The first UE transmits the first SCI to one or more UEs including a second UE, wherein the first SCI schedules a first Physical Sidelink Shared Channel (PSSCH) transmission for transmitting the MAC PDU.

