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(54) **SYSTEMS AND METHODS FOR MANAGING MEDICAL DEVICE NETWORK COMMUNICATION**

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(57) **ABSTRACT**

A method of controlling a medical device for transmitting and/or receiving a data stream through a medical network, the method comprising transmitting and/or receiving the data stream over the medical network by a network interface using a multicast address stored in a memory of the medical device. Upon powering up the medical device, the method further comprises disabling the network interface from transmitting and/or receiving the data stream using the multicast address. The method further comprises determining whether to continue to use the multicast address. In accordance with a determination to continue to use the multicast address, the method further comprises enabling the network interface such that the network interface can transmit and/or receive the data stream using the multicast address. In accordance with a determination not to continue to use the multicast address, the method further comprises clearing the multicast address from memory and enabling the network interface.

