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(54) **METHOD FOR SYNCHRONIZING TOPOLOGY INFORMATION IN SFC NETWORK, AND ROUTING NETWORK ELEMENT**

(71) Applicant: **Huawei Technologies Co., Ltd.**, Shenzhen (CN)

(72) Inventors: **Ling Xu**, Beijing (CN); **Jie Dong**, Beijing (CN); **Guoyi Chen**, Beijing (CN)

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(57) **ABSTRACT**

A method for synchronizing topology information in a service function chain (SFC) network, where the SFC network includes at least one classifier (CF) and at least one service function forwarder (SFF). The method includes that a first network element in the at least two routing network elements establishes a Border Gateway Protocol (BGP) connection to at least one second network element other than the first network element in the at least two routing network elements, where the first network element is any one of the at least two routing network elements, and the first network element sends a first BGP update message to the at least one second network element, where the first BGP update message includes topology information of the first network element such that the at least one second network element obtains the topology information of the first network element.