

(19) **United States**
(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0214243 A1**
Zhang et al. (43) **Pub. Date: Jun. 27, 2024**

(54) **DESIGNATED FORWARDER DF ELECTION METHOD AND DEVICE**

(52) **U.S. Cl.**
CPC *H04L 12/4641* (2013.01); *H04L 12/1886* (2013.01)

(71) Applicant: **HUAWEI TECHNOLOGIES CO., LTD.**, Shenzhen (CN)

(72) Inventors: **Ye Zhang**, Nanjing (CN); **Tong Zhu**, Nanjing (CN)

(21) Appl. No.: **18/601,617**

(22) Filed: **Mar. 11, 2024**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2022/115177, filed on Aug. 26, 2022.

Foreign Application Priority Data

Sep. 11, 2021 (CN) 202111065081.X

Publication Classification

(51) **Int. Cl.**
H04L 12/46 (2006.01)
H04L 12/18 (2006.01)

(57) **ABSTRACT**

Embodiments of this application provide a DF election method and a device. The method is performed by a first network device, and the method includes: receiving an EVPN Ethernet segment ES route advertised by a second network device, where the ES route includes an ESI, the ESI identifies an Ethernet segment, and the Ethernet segment includes a first link and a second link, where the first network device and the second network device each are configured with a first broadcast domain, a first gateway accesses the first broadcast domain of the first network device through the first link, a second gateway accesses the first broadcast domain of the second network device through the second link, the first network device and the second network device each configure the ESI in the first broadcast domain, and the first gateway and the second gateway access a same EVPN site; and performing DF election based on the ES route, to determine that the first network device is a non-DF in the first broadcast domain. In this application, network resources can be saved, and network performance can be improved.

