



US 20240214313A1

(19) **United States**

(12) **Patent Application Publication**
Voit et al.

(10) **Pub. No.: US 2024/0214313 A1**

(43) **Pub. Date: Jun. 27, 2024**

(54) **ENERGY EFFICIENT DATA TRANSMISSION**

Publication Classification

(71) Applicant: **Cisco Technology, Inc.**, San Jose, CA (US)

(51) **Int. Cl.**
H04L 47/127 (2006.01)
H04L 47/34 (2006.01)

(72) Inventors: **Eric A Voit**, San Jose, CA (US);
Santosh Kumar Upadhyaya, San Jose, CA (US); **Sarat C Pollakattu**, San Jose, CA (US); **Valiveti Vamsi Krishna**, San Jose, CA (US)

(52) **U.S. Cl.**
CPC **H04L 47/127** (2013.01); **H04L 47/34** (2013.01)

(21) Appl. No.: **18/069,703**

(22) Filed: **Dec. 21, 2022**

(57) **ABSTRACT**

Embodiments of the present disclosure provide energy efficient data transmission operations which may be configured to selectively energize some of a plurality of links within a given data transmission channel based at least in part on a detected amount of traffic or a predicted amount of traffic while ensuring that data is delivered in an orderly and energy-efficient manner.

