US 20230231906A1

(54) **MECHANISM TO IDENTIFY LINK DOWN REASONS**

(71) Applicant: **NVIDIA Corporation**, Santa Clara, CA (US)

(72) Inventor: **Sudharsan Dhamal Gopalarathnam**, Bothell, WA (US)

(57) **ABSTRACT**

Methods, systems, and devices are provided herein for a mechanism to identify link down reasons. As described herein, a first port of a first peer device may be determined to have unexpectedly changed to a port down state. Subsequently, a topology file may be referenced to identify a second port of a second peer device with which the first peer device is intended to have a link if not for the first port being in a port down state. In some examples, port settings of the first port may be compared with port settings of the second port. If a port setting for the first port mismatches an associated port setting for the second port, an alert message may be transmitted to a network administrator indicating this mismatch as a possible reason for the first port being in the port down state.