

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0214102 A1 Yanagimachi

(43) **Pub. Date:**

Jun. 27, 2024

(54) PATH CONTROL DEVICE OF OPTICAL NETWORK, OPTICAL NETWORK SYSTEM, PATH CONTROL METHOD, AND PATH **CONTROL PROGRAM**

(71) Applicant: NEC Corporation, Minato-ku, Tokyo

(72) Inventor: Shigeyuki Yanagimachi, Tokyo (JP)

(73) Assignee: NEC Corporation, Minato-ku, Tokyo (JP)

18/288,463 (21) Appl. No.:

(22) PCT Filed: Mar. 15, 2022

PCT/JP2022/011477 (86) PCT No.:

§ 371 (c)(1),

(2) Date: Oct. 26, 2023

(30)Foreign Application Priority Data

May 7, 2021 (JP) 2021-079303

Publication Classification

(51) Int. Cl.

H04J 14/02 (2006.01)H04B 10/27 (2013.01)H04Q 11/00 (2006.01)

(52) U.S. Cl.

CPC H04J 14/0212 (2013.01); H04B 10/27 (2013.01); H04Q 11/0005 (2013.01); H04Q 11/0062 (2013.01); H04Q 2011/0073 (2013.01)

ABSTRACT (57)

A path control apparatus (100) includes a control section (10) that aggregates paths for a same receiving node into a same core of a same multi-core optical transmission channel.

