(19) **United States**

(12) **Patent Application Publication** (10) Pub. No.: US 2002/0105692 A1

Lauder et al. (43) **Pub. Date:** **Aug. 8, 2002**

(54) **HIERARCHICAL WDM IN CLIENT-SERVER ARCHITECTURE**

(76) Inventors: **Richard Lauder**, Maroubra (AU); **Ross Halgren**, Collaroy Plateau (AU)

Correspondence Address:
CHRISTIE, PARKER & HALE, LLP
350 WEST COLORADO BOULEVARD
SUITE 500
PASADENA, CA 91105 (US)

(52) **U.S. Cl.** **359/124;** 359/119

(57) **ABSTRACT**

An optical ring network comprising; a plurality of network elements including a core network element interfacing the ring network with an external core network, and at least one ring network element; wherein the core network element includes a first CWDM unit, a first DWDM unit and switching means arranged to cross connect any wavelength channel within or between wavelength bands on the ring network or between the ring network and the core network, and wherein the ring network elements each include, a second CWDM unit and a second DWDM unit, the second CWDM unit being arranged to add/drop at least a first wavelength band at said ring network element from and to the second DWDM unit and to express other wavelength bands onto the next network element
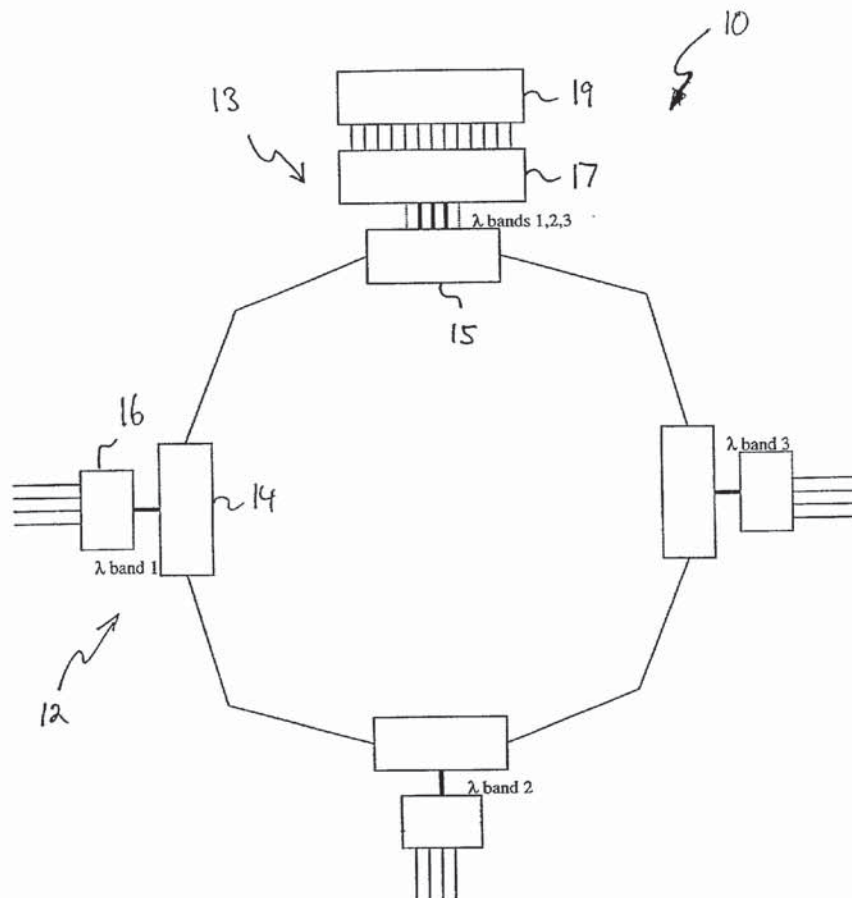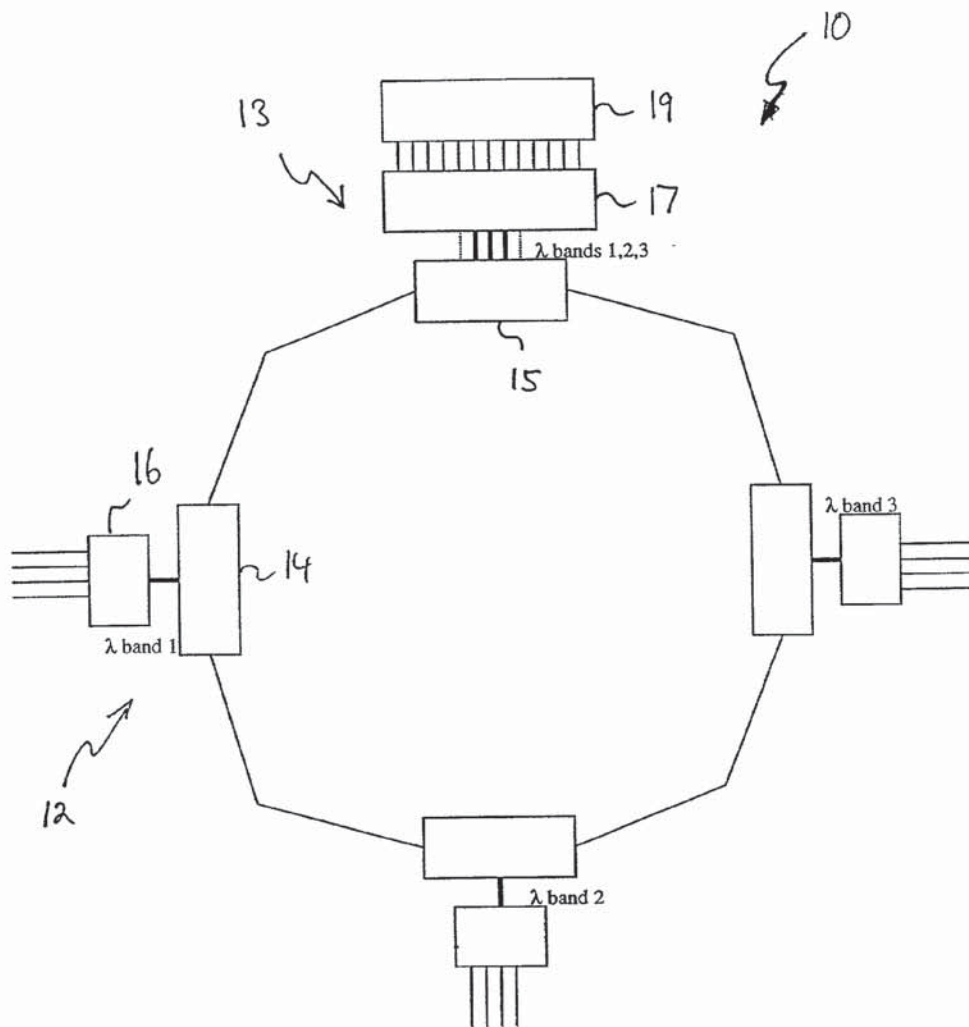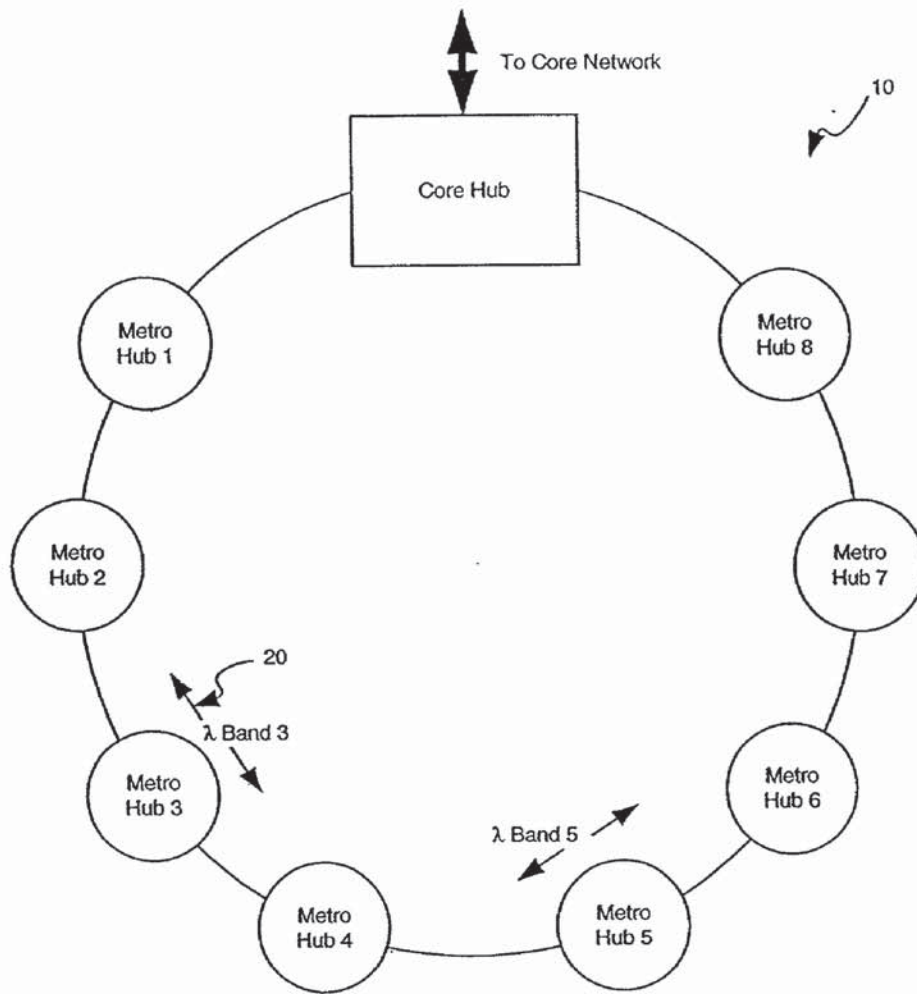
Figure 1

Figure 2

Figure 3

Figure 4

DOCKET ALARM
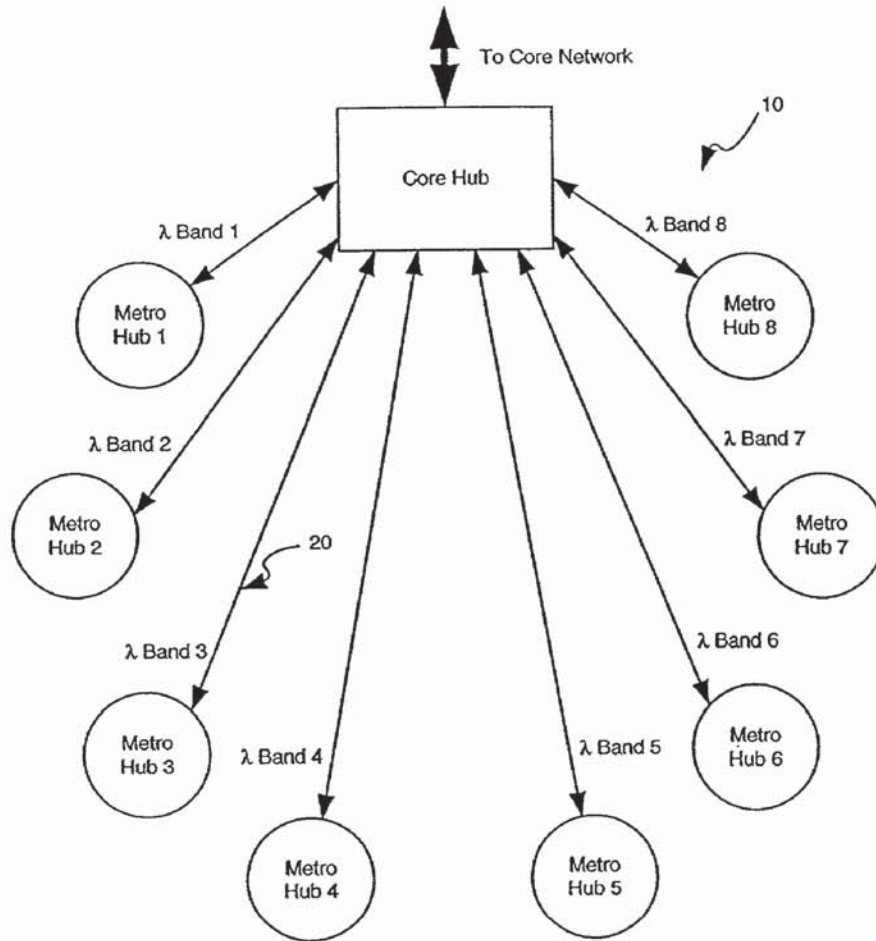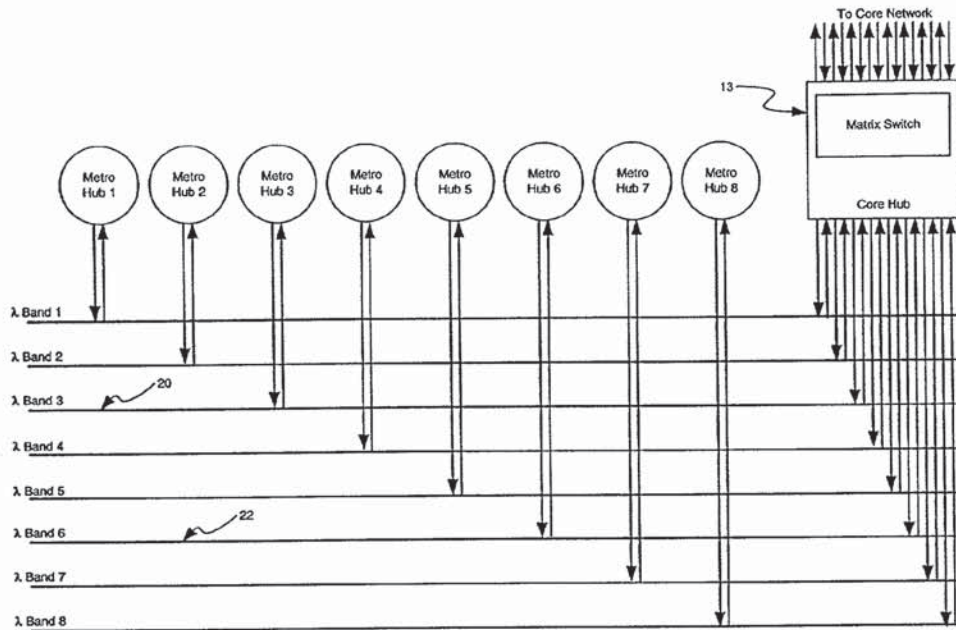
Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

fastcase®
Smarter legal research.