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Pitwon et al.

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(54) **OPTICAL WAVELENGTH DIVISION
MULTIPLEXED
MULTIPLEXER/DEMULTIPLEXER FOR AN
OPTICAL PRINTED CIRCUIT BOARD AND A
METHOD OF MANUFACTURING THE SAME**

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(75) Inventors: **Richard Charles Alexander Pitwon**,
Fareham (GB); **David R. Selviah**,
Bedford (GB); **Ioannis**
Papakonstantinou, London (GB)

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(73) Assignee: **Xyratex Technology Limited**, Havant
(GB)

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Primary Examiner—Sarah Song

(74) *Attorney, Agent, or Firm*—Pillsbury Winthrop Shaw
Pittman LLP

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(58) **Field of Classification Search** 385/14,
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See application file for complete search history.

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(57) **ABSTRACT**

The invention provides an optical mux/demux for an optical
printed circuit board. The mux/demux comprises: a first
waveguide formed on a support layer for carrying a wave-
length division multiplexed optical signal; a separator/com-
biner for separating the wavelength division multiplexed sig-
nal into component signals of corresponding wavelengths or
for combining component signals into the said wavelength
division multiplexed signal; and plural second waveguides,
each for receiving or providing one or more of the said com-
ponent signals, wherein the separator/combiner is at a prede-
termined location relative to the waveguides.

16 Claims, 10 Drawing Sheets

