

Title (en)  
FLEXIBLE OPTICAL MULTIPLEXER

Title (de)  
FLEXIBLER OPTISCHER MULTIPLEXER

Title (fr)  
MULTIPLEXEUR OPTIQUE SOUPLE

Publication  
**EP 1155525 A2 20011121 (EN)**

Application  
**EP 00937497 A 20000215**

Priority

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- US 12145699 P 19990224
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- US 32676799 A 19990604

Abstract (en)  
[origin: WO0051277A2] A multiplexer has an optical circulator including at least first, second and third circulator ports. An optical fiber with a first optical transmission path is coupled to the first circulator port of the optical circulator. The optical fiber carries a wavelength division multiplexed optical signal, including signals  $\lambda_1$  -  $\lambda_n$ , and at least one signal  $\lambda_1$  to be dropped by the multiplexer. A second optical transmission path is in optical communication with the second circulator port. A first filter is coupled to the second optical transmission path. The first filter passes a portion of the  $\lambda_1$  signal, and reflects a first residual  $\lambda_1$  signal and signals  $\lambda_2$  -  $\lambda_n$  to the optical circulator. A third optical transmission path is in optical communication with the third circulator port and transmits the signals  $\lambda_2$  -  $\lambda_n$  received from the optical circulator.

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**H04J 14/02**

IPC 8 full level  
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CPC (source: EP)  
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**WO 0051277 A2 20000831**; **WO 0051277 A3 20010125**; AU 5265700 A 20000914; EP 1155525 A2 20011121; JP 2002538665 A 20021112; JP 4477778 B2 20100609; TW 541808 B 20030711

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