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[WO200194998](#)

Temperature-compensated bulk diffraction grating for wavelength division multiplexer (wdm)

CONFLUENT PHOTONICS LIGHTCHIP

[US6434299](#)

Wavelength division multiplexing/demultiplexing devices having concave diffraction gratings

CONFLUENT PHOTONICS

Temperature-compensated bulk diffraction grating for wavelength division multiplexer (wdm)

WO200194998

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| <ul style="list-style-type: none"> • Patent Assignee CONFLUENT PHOTONICS LIGHTCHIP • Inventor ZHU NINGHUI TURNER IAN YUDIN YURI A SOKOLSKIY MIKHAIL N WADE ROBERT K • International Patent Classification G02B-005/18 G02B-006/34 G02B-007/00 • US Patent Classification PCLO=359576000 PCLX=359566000 PCLX=359569000 PCLX=359900000 • CPC Code G02B-005/18/61; G02B-006/293/98; G02B-007/00/8; Y10S-359/90 | <ul style="list-style-type: none"> • Publication Information WO200194998 A2 2001-12-13 [WO200194998] • Priority Details 2000US-09587266 2000-06-05 2001WO-US17834 2001-06-01 | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Fampat family <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">WO200194998</td> <td style="width: 33%;">A2</td> <td style="width: 33%;">2001-12-13</td> <td style="width: 33%;">[WO200194998]</td> </tr> <tr> <td>CA2411467</td> <td>A1</td> <td>2001-12-13</td> <td>[CA2411467]</td> </tr> <tr> <td>AU6532001</td> <td>A</td> <td>2001-12-17</td> <td>[AU200165320]</td> </tr> <tr> <td>US6449097</td> <td>B1</td> <td>2002-09-10</td> <td>[US6449097]</td> </tr> <tr> <td>WO200194998</td> <td>A3</td> <td>2003-03-13</td> <td>[WO200194998]</td> </tr> <tr> <td>EP1311888</td> <td>A2</td> <td>2003-05-21</td> <td>[EP1311888]</td> </tr> </table> | | WO200194998 | A2 | 2001-12-13 | [WO200194998] | CA2411467 | A1 | 2001-12-13 | [CA2411467] | AU6532001 | A | 2001-12-17 | [AU200165320] | US6449097 | B1 | 2002-09-10 | [US6449097] | WO200194998 | A3 | 2003-03-13 | [WO200194998] | EP1311888 | A2 | 2003-05-21 | [EP1311888] |
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- **Abstract:**

(EP1311888)

An improved diffraction grating for wavelength division multiplexing/demultiplexing devices is disclosed. The improved diffraction grating has a glass substrate, a polymer grating layer located adjacent to the glass substrate, and a metal coating layer located adjacent to the polymer grating layer. The improvement comprises a polymer coating layer located adjacent to the metal coating layer, and a glass cover located adjacent to the polymer coating layer, wherein the polymer coating layer and the glass cover compensate for thermal characteristics associated with the polymer grating layer and the glass substrate, respectively. (From WO200194998 A3)



