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(71) Applicant: **LIGHTCHIP, INC. [US/US]; 5 Industrial Way, Salem, NH 03079 (US).**

(72) Inventor: **WADE, Robert, K.; 17 Union Road, Stratham, NH 03885 (US).**

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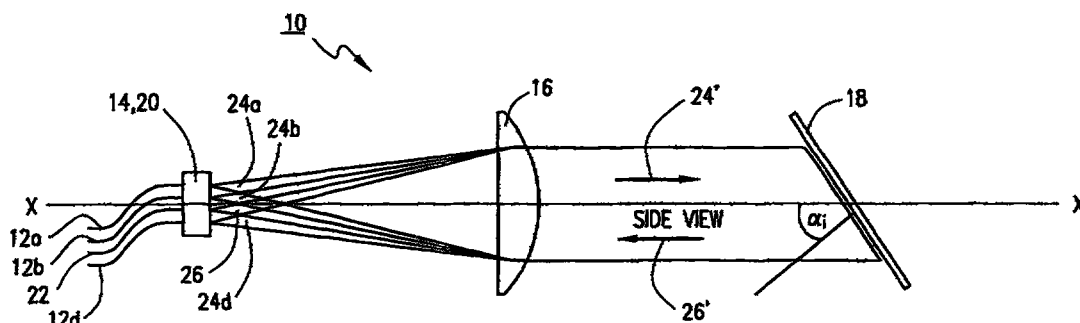
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(74) Agents: **ANDERSON, Thomas, M. et al.; Hunton & Williams, 1900 K Street N.W., Washington, DC 20006 (US).**

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(54) Title: **WAVELENGTH DIVISION MULTIPLEXING/DEMULTIPLEXING DEVICES USING HOMOGENEOUS REFRACTIVE INDEX LENSES**



(57) Abstract: An improved wavelength division multiplexing device (10) is disclosed. The improved wavelength division multiplexing device (10) monochromatic optical beams into a multiplexed, polychromatic optical beam. The improvement in the improved wavelength division multiplexing device (10) is in the improved wavelength division multiplexing device (10) monochromatic optical beams (24) traveling along a first direction (24') to the diffraction grating (18), and for focusing the multiplexed, polychromatic optical beam (26) traveling along a second direction (26') from the diffraction grating (18) wherein the second direction (26') being substantially opposite the first direction (24').