

Docket #: S05-245

Silicon-nanocrystal-coated Microsphere Thermooptical Switches

An optical switch includes a microresonator comprising a plurality of nanoparticles. The microresonator is configured to receive signal light having a signal wavelength and to receive a pump pulse having a pump wavelength. At least a portion of the microresonator is responsive to the pump pulse by undergoing a refractive index change at the signal wavelength.

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Patents

- Published Application: [20070071386](#)
- Published Application: [WO2007035657](#)
- Published Application: [20100142887](#)
- Published Application: [20120213471](#)
- Published Application: [20140233884](#)
- Published Application: [20150023633](#)
- Issued: [7,684,664 \(USA\)](#)
- Issued: [8,184,932 \(USA\)](#)
- Issued: [8,520,988 \(USA\)](#)
- Issued: [8,849,076 \(USA\)](#)
- Issued: [9,366,886 \(USA\)](#)

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