

**Docket #:** S05-397

# **Air-Core Photonic-Bandgap Directional Fiber Coupler**

An optical fiber includes a cladding, a first core, and a second core. At least one of the first core and the second core is hollow and is substantially surrounded by the cladding. At least a portion of the first core is generally parallel to and spaced from at least a portion of the second core. The optical fiber includes a defect substantially surrounded by the cladding, the defect increasing a coupling coefficient between the first core and the second core.

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## **Patents**

- Published Application: [20070274652](#)
- Published Application: [20090026309](#)
- Published Application: [20110142397](#)
- Published Application: [20120141081](#)
- Issued: [7,551,819 \(USA\)](#)
- Issued: [7,853,107 \(USA\)](#)
- Issued: [8,094,983 \(USA\)](#)
- Issued: [8,385,697 \(USA\)](#)

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