

**Docket #:** S03-240

# Air-core Photonic-Bandgap Fibers

A photonic-bandgap fiber includes a photonic crystal lattice with a material having a first refractive index and a pattern of regions formed therein. Each of the regions has a second refractive index lower than the first refractive index. The photonic-bandgap fiber further includes a core and a core ring surrounding the core and having an inner perimeter, an outer perimeter, and a thickness between the inner perimeter and the outer perimeter. The thickness is sized to reduce the number of ring surface modes supported by the core ring.

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## Patents

- Published Application: [20050118420](#)
- Published Application: [WO2005026783](#)
- Published Application: [20090175584](#)
- Published Application: [WO2005111679](#)
- Published Application: [20070189686](#)
- Published Application: [20050281522](#)

## Innovators

- Michel Digonnet
- Gordon Kino
- Hyang Kyun Kim
- Shanhui Fan
- Jonghwa Shin
- Vinayak Dangui

# **Licensing Contact**

## **Evan Elder**

Senior Licensing Associate

[Email](#)