

**Docket #:** S04-148

# **Simulation of Core Ring on Surface and Air-Core Modes**

An optical fiber includes a cladding 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 optical fiber further includes a core region and a core ring surrounding the core region 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.

This patent is available for licensing through Stanford's exclusive licensee. Please contact Dennis Fortner at: [Dennis.Fortner@ngc.com](mailto:Dennis.Fortner@ngc.com) for licensing information.

## **Patents**

- Published Application: [20080112678](https://www.uspto.gov/patents/apply/patent-application-number/20080112678)

## **Innovators**

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

## **Licensing Contact**

## **Evan Elder**

Senior Licensing Associate

[Email](#)