

[54] OPTICAL FIBER ASSEMBLY WITH CLADDING LIGHT SCATTERING MEANS

[75] Inventor: Ken Ishikawa, Yokohama, Japan

[73] Assignee: Tokyo Shibaura Denki Kabushiki Kaisha, Kawasaki, Japan

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Primary Examiner—William L. Sikes
 Assistant Examiner—Frank González
 Attorney, Agent, or Firm—Cushman, Darby and Cushman

[57] ABSTRACT

In an optical fiber assembly, an optical fiber having a core and a cladding is covered with a protecting film. The film is removed in a predetermined region extending from the end face of the optical fiber along the optical fiber, and the cladding is exposed. The surface of the exposed cladding is formed with a rough surface, and a laser beam which is transmitted to the cladding is scattered externally from the rough surface. The optical fiber is mounted on the hollow holder, and the rough surface of the cladding is disposed in the holder. The beam component scattered externally from the rough surface is absorbed by the light absorbing layer on the inner surface of the holder.

9 Claims, 4 Drawing Figures

