

Title (en)

RADIATION-RESISTANT SILICA-BASED OPTICAL FIBRE

Title (de)

STRAHLUNGSBESTÄNDIGE OPTISCHE FASER AUF SILICABASIS

Title (fr)

FIBRE OPTIQUE A BASE DE SILICE RESISTANTE AUX RADIATIONS

Publication

**EP 4260107 A1 20231018 (FR)**

Application

**EP 21815185 A 20211118**

Priority

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Abstract (en)

[origin: CA3202236A1] The invention relates to a silica optical fiber (10) resistant to radiations (R) comprising: - a core (20);- a sheath (30) surrounding the core; - a polymer coating (40) encasing the sheath, said coating being able to form hydrogen (H2) by radiolysis under the effect of the radiations so as to diffuse it into said optical fiber. The invention relates also to an optical fiber device comprising at least one such radiation-resistant silica optical fiber.

IPC 8 full level

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CPC (source: EP KR US)

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