

Title (en)

OPTICAL FIBRE WITH A FLUORESCENT DOPANT

Title (de)

OPTISCHE FASER MIT FLUORESZENTER DOTIERUNG

Title (fr)

FIBRE OPTIQUE COMPRENANT UN DOPANT FLUORESCENT

Publication

**EP 0800716 A1 19971015 (FR)**

Application

**EP 96934965 A 19961024**

Priority

- FR 9601664 W 19961024
- FR 9512859 A 19951031

Abstract (en)

[origin: WO9716875A1] An optical fibre including a silica-based optical core (6) for guiding most of the light waves, containing a fluorescent dopant and being surrounded by a silica-based optical sheath (5) with a lower refractive index than the core. Said core includes a central portion (2) having a radius  $a_0$  and containing said fluorescent dopant, and a peripheral portion (4) having a radius  $a$ , surrounding said central portion, having a higher refractive index than the sheath and containing no fluorescent dopant. Said core (6) further includes an intermediate portion (3) having a radius  $a_1$  and a higher softening point than said central portion (2). Said intermediate portion (3) contains no fluorescent dopant and is such that  $a_0 < a_1 < a$ .

IPC 1-7

**H01S 3/06**; **C03C 13/04**

IPC 8 full level

**G02B 6/036** (2006.01); **C03C 13/04** (2006.01); **H01S 3/067** (2006.01); **H01S 3/07** (2006.01); **H01S 3/17** (2006.01)

CPC (source: EP US)

**C03C 13/045** (2013.01 - EP US); **H01S 3/06708** (2013.01 - EP US); **H01S 3/06729** (2013.01 - EP US)

Citation (search report)

See references of WO 9716875A1

Designated contracting state (EPC)

DE DK GB IT

DOCDB simple family (publication)

**WO 9716875 A1 19970509**; EP 0800716 A1 19971015; FR 2740563 A1 19970430; FR 2740563 B1 19971121; JP H10512403 A 19981124; US 5892876 A 19990406

DOCDB simple family (application)

**FR 9601664 W 19961024**; EP 96934965 A 19961024; FR 9512859 A 19951031; JP 51710797 A 19961024; US 86037497 A 19970625