

Title (en)

REDUCED CLAD DIAMETER RARE EARTH DOPED FIBER COILS AND OPTICAL AMPLIFIERS UTILIYING SUCH COILS

Title (de)

SELTENERDDOTIERTE FASERSPULEN MIT VERRINGERTEM MANTELDURCHMESSER UND SOLCHE SPULEN VERWENDENDE OPTISCHE VERSTÄRKER

Title (fr)

BOBINES DE FIBRES DOPEES AUX TERRES RARES A DIAMETRE DE GAINÉ REDUIT ET AMPLIFICATEURS OPTIQUES UTILISANT CELLES-CI

Publication

EP 1611650 A1 20060104 (EN)

Application

EP 04759627 A 20040317

Priority

- US 2004008097 W 20040317
- US 45984203 P 20030401
- US 75500904 A 20040108

Abstract (en)

[origin: WO2004095655B1] According to the present invention, a rare earth doped fiber coil comprises a rare doped optical fiber having a rare-earth doped core surrounded by a cladding. The outer clad diameter is less than 100µm. The rare earth doped optical fiber has a length of 10 m to 50m and is coiled with a bend radius of less than 40mm.

IPC 1-7

H01S 3/067

IPC 8 full level

H01S 3/067 (2006.01)

CPC (source: EP)

H01S 3/06708 (2013.01); **H01S 3/06704** (2013.01)

Citation (search report)

See references of WO 2004095655A1

Citation (examination)

- US 6393923 B1 20020528 - HOLT JAMES C [US], et al
- US 5185749 A 19930209 - KALMAN ROBERT F [US], et al
- WO 9950843 A1 19991007 - SEAGATE TECHNOLOGY [US]

Designated contracting state (EPC)

FR GB IT

DOCDB simple family (publication)

WO 2004095655 A1 20041104; WO 2004095655 B1 20050113; EP 1611650 A1 20060104; JP 2006522366 A 20060928

DOCDB simple family (application)

US 2004008097 W 20040317; EP 04759627 A 20040317; JP 2006507257 A 20040317