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Title: Fiber amplifier system e.g. master oscillator amplifier system (MOPA) for amplifying and emitting pulsed radiation, has polarization filter or spatial filter used for selection radiation to be amplified

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Abstract: NOVELTY - The fiber amplifier system includes a master source (1) which emits pulsed output radiation, and an amplifier stage (4) which is arranged after the master source in the direction radiation to amplify the output radiation. The output radiation spontaneously emitted by the master source is distributed at one end. A polarization filter (2) or spatial filter (3) is used for the selection radiation to be amplified. The spectral width about 2.5 THz is desired for the amplification and emission pulsed radiation.

USE - Fiber amplifier system e.g. master oscillator amplifier system (MOPA) for amplifying and emitting pulsed radiation used for non-linear frequency conversion (claimed) in industrial and scientific applications.

ADVANTAGE - A fiber amplifier system for amplifying and emitting pulsed radiation which avoids stimulated Brillouin scattering as effectively as possible and at the same time can be produced simply and inexpensively is provided.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for method for amplification and emission pulsed laser radiation.

DESCRIPTION DRAWING(S) - The drawing shows a block diagram the fiber amplifier system.

Master source (1)

Polarization filter (2)

Spatial filter (3)

Amplifier stage (4)

Drawing:

Derwent Class Code(s): V08 (Lasers and Masers)

Derwent Manual Code(s): V08-A02B; V08-A07

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US7539231-B1 LOCKHEED MARTIN CORP (LOCK)BORSCHOWA L A; HENRIE J D;
HONEA E C; LIU A; SAVAGE-LEUCHS M P

US2010193769-A1 EXALOS AG (EXAL-Non-standard) OCCHI L; LAINO V; VELEZ C