

Title (en)

COMPENSATION OF GAIN VARIATIONS IN A MULTISTAGE OPTICAL AMPLIFIER

Title (de)

KOMPENSATION VON GEWINNSCHWANKUNGEN EINES MEHRSTUFIGEN OPTISCHEN VERSTÄRKERS

Title (fr)

COMPENSATION DE VARIATIONS DE GAIN D'UN AMPLIFICATEUR OPTIQUE A PLUSIEURS ETAGES

Publication

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Application

**EP 05801348 A 20051012**

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Abstract (en)

[origin: WO2006048367A1] The invention relates to a method for compensation of gain variations in a multistage optical amplifier (3), for the amplification of an optical wavelength multiplex signal (WDM), comprising several amplifier stages (4-6) in series, each with at least one pumping device (11). Gain variation (23) occurring after a switching process can easily be compensated for, when the power jump (20) expected at the second amplifier stage is determined and, depending thereon, a new pump power (I) is calculated for the corresponding pump device (11), the new pump power (I) is set for the pump device (11) before the power jump (20) arrives at the input of the second stage (6).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2006048367A1

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EP 1220382 A2 20020703 - SUMITOMO ELECTRIC INDUSTRIES [JP]

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