

Title (en)

DEVICE AND METHOD FOR CHARACTERIZING A LIGHT BEAM

Title (de)

VORRICHTUNG UND VERFAHREN ZUR CHARAKTERISIERUNG EINES LICHTSTRAHLS

Title (fr)

DISPOSITIF ET PROCÉDÉ DE CARACTÉRISATION D'UN FAISCEAU DE LUMIÈRE

Publication

EP 2721385 A1 20140423 (FR)

Application

EP 12731176 A 20120608

Priority

- FR 1155185 A 20110614
- IB 2012052910 W 20120608

Abstract (en)

[origin: WO2012172463A1] Method of characterizing a light beam (FL) comprising the steps consisting in: a) disposing the input ends (EE1 - EE11) of $N > 3$ optical fibres (F01 - F011) on the path of said light beam, in such a way that a respective portion of said beam is coupled and propagates in each optical fibre and is emitted from its output end (ES1 - ES11) so as to form a respective secondary beam; b) introducing an angular spectral dispersion into said secondary beams by means of at least one dispersive element (RD); c) propagating the dispersed secondary beams in such a way that they overlap to form an interferogram; d) acquiring an image of said interferogram; and e) extracting from said image of said interferogram an item of information relating to the spatial variation of the phase of said light beam at a plurality of wavelengths. Device for the implementation of such a method.

IPC 8 full level

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CPC (source: EP US)

G01J 3/45 (2013.01 - US); **G01J 9/02** (2013.01 - EP US); **G01J 11/00** (2013.01 - EP US); **G01J 2009/0238** (2013.01 - EP US)

Citation (search report)

See references of WO 2012172463A1

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