

Title (en)

METHOD FOR CONSTRUCTING AN OPTICAL BEAM GUIDE SYSTEM IN A CONTAMINATION-FREE ATMOSPHERE AND UNIVERSAL OPTICAL MODULE FOR SAID CONSTRUCTION

Title (de)

VERFAHREN ZUM AUFBAU EINES OPTISCHEN STRAHLFÜHRUNGSSYSTEMS

Title (fr)

PROCEDE DE CONSTRUCTION D'UN SYSTEME OPTIQUE DE FOCALISATION D'UN FAISCEAU EN ATMOSPHERE DEPOURVUE DE CONTAMINATION, ET MODULE OPTIQUE UNIVERSEL POUR CETTE CONSTRUCTION

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Application

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Abstract (en)

[origin: WO03062926A2] The invention relates to a method for constructing an optical beam guide system in a contamination-free atmosphere and a universal optical module for said construction. The aim of the invention is to prevent contamination of the optical imaging elements during handling, assembly and adjustment. According to the invention, the imaging element is fixated aligned relative to a first reference of a support on said support outside the contamination-free atmosphere of the beam guide system, with its optical axis protected against atmospheric influences. The support, protected against atmospheric influences, is introduced into the contamination-free atmosphere of the beam guide system together with the imaging element and is fastened on the recording element, with the first reference aligned with a second reference of a recording element, thereby aligning the optical axis of the imaging element in the beam guide system. The method and the optical module according to the invention are especially suitable for applications where optical systems have to be positioned in a beam guide system ready for instantaneous use and protected from environmental influences.

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